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```
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```

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```
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```

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## 1.2 iptables 1.6.2 r0

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# Names should be added to this file as:

# Name <email address>

# Keep the list alphabetically sorted.

Alexis Hunt <lexer@google.com>

Andreas Litt <andreas.litt@gmail.com>

Andrew Gerrand <adg@golang.org>

Brad Fitzpatrick <bradfitz@golang.org>

Burcu Dogan <jbd@google.com>

Dave Day <djd@golang.org>

David Sansome <me@davidsansome.com>

David Symonds <dsymonds@golang.org>

Filippo Valsorda <hi@filippo.io>

Glenn Lewis <gmlewis@google.com>  
Ingo Oeser <nightlyone@googlemail.com>  
James Hall <james.hall@shopify.com>  
Johan Euphrosine <proppy@google.com>  
Jonathan Amsterdam <jba@google.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Luna Duclos <luna.duclos@palmstonegames.com>  
Magnus Hiie <magnus.hiie@gmail.com>  
Mario Castro <mariocaster@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Omar Jarjur <ojarjur@google.com>  
Pawe Knap <pawelknap88@gmail.com>  
Pter Szilgyi <peterke@gmail.com>  
Sarah Adams <shadams@google.com>  
Thanatat Tamtan <acoshift@gmail.com>  
Toby Burrell <kurin@google.com>  
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Anton Povarov <[anton.povarov@gmail.com](mailto:anton.povarov@gmail.com)>

Brian Goff <[cpuguy83@gmail.com](mailto:cpuguy83@gmail.com)>

Clayton Coleman <[ccoleman@redhat.com](mailto:ccoleman@redhat.com)>

Denis Smirnov <[denis.smirnov.91@gmail.com](mailto:denis.smirnov.91@gmail.com)>

DongYun Kang <[ceram1000@gmail.com](mailto:ceram1000@gmail.com)>

Dwayne Schultz <[dschultz@pivotal.io](mailto:dschultz@pivotal.io)>

Georg Apitz <[gapitz@pivotal.io](mailto:gapitz@pivotal.io)>

Gustav Paul <[gustav.paul@gmail.com](mailto:gustav.paul@gmail.com)>

Johan Brandhorst <[johan.brandhorst@gmail.com](mailto:johan.brandhorst@gmail.com)>

John Shahid <[jvshahid@gmail.com](mailto:jvshahid@gmail.com)>

John Tuley <[john@tuley.org](mailto:john@tuley.org)>

Laurent <[laurent@adyoulike.com](mailto:laurent@adyoulike.com)>

Patrick Lee <[patrick@dropbox.com](mailto:patrick@dropbox.com)>

Peter Edge <[peter.edge@gmail.com](mailto:peter.edge@gmail.com)>

Roger Johansson <[rogeralsing@gmail.com](mailto:rogeralsing@gmail.com)>

Sam Nguyen <[sam.nguyen@sendgrid.com](mailto:sam.nguyen@sendgrid.com)>

Sergio Arbo <[serabe@gmail.com](mailto:serabe@gmail.com)>

Stephen J Day <[stephen.day@docker.com](mailto:stephen.day@docker.com)>

Tamir Duberstein <[tamird@gmail.com](mailto:tamird@gmail.com)>

Todd Eisenberger <[teisenberger@dropbox.com](mailto:teisenberger@dropbox.com)>

Tormod Erevik Lea <tormodlea@gmail.com>  
Vyacheslav Kim <kane@sendgrid.com>  
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Damian Gryski <dgryski@gmail.com>

Jan Mercl <0xjnml@gmail.com>

Kai Backman <kaib@golang.org>

Marc-Antoine Ruel <maruel@chromium.org>

Nigel Tao <nigeltao@golang.org>

Rob Pike <r@golang.org>

Rodolfo Carvalho <rhcarvalho@gmail.com>

Russ Cox <rsc@golang.org>

Sebastien Binet <seb.binet@gmail.com>

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# 1.6 tre 1.1.19 r11

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### 3ubuntu2

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## 1.17 spring-framework 5.0.2

## 1.18 x-net

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man3/CIRCLEQ\_INSERT\_AFTER.3 man3/CIRCLEQ\_INSERT\_BEFORE.3  
man3/CIRCLEQ\_INSERT\_HEAD.3 man3/CIRCLEQ\_INSERT\_TAIL.3  
man3/CIRCLEQ\_REMOVE.3 man3/LIST\_EMPTY.3 man3/LIST\_ENTRY.3  
man3/LIST\_FIRST.3 man3/LIST\_FOREACH.3 man3/LIST\_HEAD.3  
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man3/LIST\_INSERT\_AFTER.3 man3/LIST\_INSERT\_BEFORE.3  
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man3/SLIST\_EMPTY.3 man3/SLIST\_ENTRY.3 man3/SLIST\_FIRST.3  
man3/SLIST\_FOREACH.3 man3/SLIST\_HEAD.3 man3/SLIST\_HEAD\_INITIALIZER.3  
man3/SLIST\_INIT.3 man3/SLIST\_INSERT\_AFTER.3 man3/SLIST\_INSERT\_HEAD.3  
man3/SLIST\_NEXT.3 man3/SLIST\_REMOVE.3 man3/SLIST\_REMOVE\_HEAD.3  
man3/STAILQ\_CONCAT.3 man3/STAILQ\_EMPTY.3 man3/STAILQ\_ENTRY.3  
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man3/STAILQ\_HEAD\_INITIALIZER.3 man3/STAILQ\_INIT.3  
man3/STAILQ\_INSERT\_AFTER.3 man3/STAILQ\_INSERT\_HEAD.3  
man3/STAILQ\_INSERT\_TAIL.3 man3/STAILQ\_NEXT.3 man3/STAILQ\_REMOVE.3  
man3/STAILQ\_REMOVE\_HEAD.3 man3/STAILQ\_CONCAT.3 man3/STAILQ\_EMPTY.3  
man3/STAILQ\_ENTRY.3 man3/STAILQ\_FIRST.3 man3/STAILQ\_FOREACH.3  
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man3/STAILQ\_HEAD\_INITIALIZER.3 man3/STAILQ\_INIT.3  
man3/STAILQ\_INSERT\_AFTER.3 man3/STAILQ\_INSERT\_BEFORE.3  
man3/STAILQ\_INSERT\_HEAD.3 man3/STAILQ\_INSERT\_TAIL.3 man3/STAILQ\_LAST.3  
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man3/STAILQ\_SWAP.3 man3/forkpty.3 man3/getloadavg.3 man3/login\_tty.3  
man3/openpty.3 man3/queue.3 man7/operator.7 man7/symlink.7

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Files: man2/accept.2 man2/accept4.2 man2/ftruncate.2 man2/ftruncate64.2  
man2/getpeername.2 man2/getpgid.2 man2/getpgrp.2 man2/getpriority.2  
man2/getsockname.2 man2/getsockopt.2 man2/ioctl.2 man2/killpg.2  
man2/listen.2 man2/lseek.2 man2/readlink.2 man2/readlinkat.2  
man2/recv.2 man2/recvfrom.2 man2/recvmsg.2 man2/send.2 man2/sendmsg.2  
man2/sendto.2 man2/setpgid.2 man2/setpgrp.2 man2/setpriority.2  
man2/setregid.2 man2/setregid32.2 man2/setreuid.2 man2/setreuid32.2

man2/setsockopt.2 man2/shutdown.2 man2/socket.2 man2/socketpair.2  
man2/syscall.2 man2/truncate.2 man2/truncate64.2 man3/alloca.3  
man3/auth\_destroy.3 man3/authnone\_create.3 man3/authunix\_create.3  
man3/authunix\_create\_default.3 man3/btree.3 man3/callrpc.3  
man3/clearerr.3 man3/clnt\_broadcast.3 man3/clnt\_call.3  
man3/clnt\_control.3 man3/clnt\_create.3 man3/clnt\_destroy.3  
man3/clnt\_freeres.3 man3/clnt\_geterr.3 man3/clnt\_pcreateerror.3  
man3/clnt\_perrno.3 man3/clnt\_perror.3 man3/clnt\_screateerror.3  
man3/clnt\_sperrno.3 man3/clnt\_spererror.3 man3/clntraw\_create.3  
man3/clnttcp\_create.3 man3/clntudp\_bufcreate.3 man3/clntudp\_create.3  
man3/daemon.3 man3/db.3 man3/dbopen.3 man3/endrpercent.3 man3/err.3  
man3/errx.3 man3/exec.3 man3/execl.3 man3/execlp.3 man3/execlp.3  
man3/execlp.3 man3/execlp.3 man3/execlp.3 man3/fclose.3 man3/fdopen.3  
man3/feof.3 man3/ferror.3 man3/fflush.3 man3/fgetpos.3 man3/fileno.3  
man3/fopen.3 man3/fread.3 man3/freopen.3 man3/fscanf.3 man3/fseek.3  
man3/fsetpos.3 man3/ftell.3 man3/fts.3 man3/fts\_children.3  
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man3/fwrite.3 man3/get\_myaddress.3 man3/getrpcbyname.3  
man3/getrpcbynumber.3 man3/getrpccent.3 man3/getrpcport.3 man3/hash.3  
man3/iruserok.3 man3/iruserok\_af.3 man3/killpg.3 man3/mpool.3  
man3/pclose.3 man3/pmap\_getmaps.3 man3/pmap\_getport.3  
man3/pmap\_rmtcall.3 man3/pmap\_set.3 man3/pmap\_unset.3 man3/popen.3  
man3/rcmd.3 man3/rcmd\_af.3 man3/recno.3 man3/registerrpc.3  
man3/rewind.3 man3/rexec.3 man3/rexec\_af.3 man3/rpc.3  
man3/rresvport.3 man3/rresvport\_af.3 man3/ruserok.3 man3/ruserok\_af.3  
man3/scanf.3 man3/setbuf.3 man3/setbuffer.3 man3/setlinebuf.3  
man3/setrpercent.3 man3/setvbuf.3 man3/sscanf.3 man3/stdarg.3  
man3/stdio.3 man3/strtod.3 man3/strtof.3 man3/strtold.3  
man3/svc\_destroy.3 man3/svc\_freeargs.3 man3/svc\_getargs.3  
man3/svc\_getcaller.3 man3/svc\_getreq.3 man3/svc\_getreqset.3  
man3/svc\_register.3 man3/svc\_run.3 man3/svc\_sendreply.3  
man3/svc\_unregister.3 man3/svcerr\_auth.3 man3/svcerr\_decode.3  
man3/svcerr\_noproc.3 man3/svcerr\_noprogram.3 man3/svcerr\_progvers.3  
man3/svcerr\_systemerr.3 man3/svcerr\_weakauth.3 man3/svcfd\_create.3  
man3/svcraw\_create.3 man3/svctcp\_create.3 man3/svcudp\_bufcreate.3  
man3/svcudp\_create.3 man3/va\_arg.3 man3/va\_copy.3 man3/va\_end.3  
man3/va\_start.3 man3/verr.3 man3/verrx.3 man3/vfscanf.3 man3/vscanf.3  
man3/vsscanf.3 man3/vwarn.3 man3/vwarnx.3 man3/warn.3 man3/warnx.3  
man3/xdr.3 man3/xdr\_accepted\_reply.3 man3/xdr\_array.3  
man3/xdr\_authunix\_parms.3 man3/xdr\_bool.3 man3/xdr\_bytes.3  
man3/xdr\_callhdr.3 man3/xdr\_callmsg.3 man3/xdr\_char.3  
man3/xdr\_destroy.3 man3/xdr\_double.3 man3/xdr\_enum.3 man3/xdr\_float.3  
man3/xdr\_free.3 man3/xdr\_getpos.3 man3/xdr\_inline.3 man3/xdr\_int.3  
man3/xdr\_long.3 man3/xdr\_opaque.3 man3/xdr\_opaque\_auth.3  
man3/xdr\_pmap.3 man3/xdr\_pmaplist.3 man3/xdr\_pointer.3  
man3/xdr\_reference.3 man3/xdr\_rejected\_reply.3 man3/xdr\_replymsg.3  
man3/xdr\_setpos.3 man3/xdr\_short.3 man3/xdr\_string.3  
man3/xdr\_u\_char.3 man3/xdr\_u\_int.3 man3/xdr\_u\_long.3

man3/xdr\_u\_short.3 man3/xdr\_union.3 man3/xdr\_vector.3 man3/xdr\_void.3  
man3/xdr\_wrapstring.3 man3/xdrmem\_create.3 man3/xdrrec\_create.3  
man3/xdrrec\_endofrecord.3 man3/xdrrec\_eof.3 man3/xdrrec\_skiprecord.3  
man3/xdrstdio\_create.3 man3/xprt\_register.3 man3/xprt\_unregister.3  
man5/rpc.5 man7/hostname.7 man7/mdoc.7 man7/mdoc.samples.7

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man3/error.3 man3/error\_at\_line.3 man3/error\_message\_count.3

man3/error\_one\_per\_line.3 man3/error\_print\_progname.3

man3/getsubopt.3 man3/offsetof.3 man3/program\_invocation\_name.3

man3/program\_invocation\_short\_name.3 man3/rpmatch.3 man5/elf.5

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man4/hpsa.4 man4/smrtptqi.4 man5/gai.conf.5 man5/nss.5 man7/cpuset.7

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man1/memusage.1 man1/memusagestat.1 man1/mtrace.1 man1/time.1  
man2/\_clone2.2 man2/\_syscall.2 man2/acct.2 man2/add\_key.2  
man2/adjtimex.2 man2/afs\_syscall.2 man2/bdflush.2 man2/break.2  
man2/brk.2 man2/cacheflush.2 man2/capget.2 man2/capset.2 man2/clone.2  
man2/clone2.2 man2/create\_module.2 man2/epoll\_create.2  
man2/epoll\_create1.2 man2/epoll\_ctl.2 man2/epoll\_pwait.2  
man2/epoll\_wait.2 man2/eventfd.2 man2/eventfd2.2 man2/fattach.2  
man2/fdetach.2 man2/fgetxattr.2 man2/flistxattr.2 man2/fremovexattr.2  
man2/fsetxattr.2 man2/get\_kernel\_syms.2 man2/get\_thread\_area.2  
man2/getmsg.2 man2/getpmsg.2 man2/getsid.2 man2/getxattr.2  
man2/gtty.2 man2/inb.2 man2/inb\_p.2 man2/inl.2 man2/inl\_p.2  
man2/inotify\_add\_watch.2 man2/inotify\_init.2 man2/inotify\_init1.2  
man2/inotify\_rm\_watch.2 man2/insb.2 man2/insl.2 man2/insw.2  
man2/inw.2 man2/inw\_p.2 man2/io\_cancel.2 man2/io\_destroy.2  
man2/io\_getevents.2 man2/io\_setup.2 man2/io\_submit.2  
man2/ioctl\_console.2 man2/ioctl\_ficlone.2 man2/ioctl\_ficlone.2  
man2/ioctl\_fiduperange.2 man2/ioctl\_getfsmap.2 man2/ioctl\_tty.2  
man2/ioperm.2 man2/ioprio\_get.2 man2/ioprio\_set.2 man2/ipc.2  
man2/isastream.2 man2/lgetxattr.2 man2/listxattr.2 man2/llistxattr.2  
man2/lock.2 man2/lremovexattr.2 man2/lsetxattr.2 man2/madvise1.2  
man2/memfd\_create.2 man2/mkdir.2 man2/mkdirat.2 man2/mknod.2  
man2/mknodat.2 man2/mlock.2 man2/mlock2.2 man2/mlockall.2  
man2/modify\_ldt.2 man2/mpx.2 man2/mremap.2 man2/munlock.2  
man2/munlockall.2 man2/nanosleep.2 man2/outb.2 man2/outb\_p.2  
man2/outl.2 man2/outl\_p.2 man2/outsb.2 man2/outsl.2 man2/outsw.2  
man2/outw.2 man2/outw\_p.2 man2/perf\_event\_open.2 man2/phys.2  
man2/pivot\_root.2 man2/prof.2 man2/ptrace.2 man2/putmsg.2  
man2/putpmsg.2 man2/query\_module.2 man2/removexattr.2  
man2/request\_key.2 man2/s390\_pci\_mmio\_read.2  
man2/s390\_pci\_mmio\_write.2 man2/s390\_runtime\_instr.2  
man2/s390\_sthyi.2 man2/sbrk.2 man2/sched\_get\_priority\_max.2  
man2/sched\_get\_priority\_min.2 man2/sched\_getaffinity.2  
man2/sched\_getparam.2 man2/sched\_rr\_get\_interval.2  
man2/sched\_setaffinity.2 man2/sched\_setparam.2 man2/sched\_yield.2

man2/security.2 man2/set\_thread\_area.2 man2/setsid.2 man2/setxattr.2  
man2/signalfd.2 man2/signalfd4.2 man2/socketcall.2 man2/spu\_create.2  
man2/spu\_run.2 man2/stty.2 man2/timerfd\_create.2  
man2/timerfd\_gettime.2 man2/timerfd\_settime.2 man2/tuxcall.2  
man2/unimplemented.2 man2/unshare.2 man2/vserver.2 man3/DES\_FAILED.3  
man3/MB\_CUR\_MAX.3 man3/MB\_LEN\_MAX.3 man3/\_\_after\_morecore\_hook.3  
man3/\_\_free\_hook.3 man3/\_\_malloc\_hook.3  
man3/\_\_malloc\_initialize\_hook.3 man3/\_\_memalign\_hook.3  
man3/\_\_realloc\_hook.3 man3/\_\_setfpucw.3 man3/a64l.3  
man3/addseverity.3 man3/aio\_cancel.3 man3/aio\_error.3  
man3/aio\_fsync.3 man3/aio\_read.3 man3/aio\_return.3 man3/aio\_suspend.3  
man3/aio\_write.3 man3/argz.3 man3/argz\_add.3 man3/argz\_add\_sep.3  
man3/argz\_append.3 man3/argz\_count.3 man3/argz\_create.3  
man3/argz\_create\_sep.3 man3/argz\_delete.3 man3/argz\_extract.3  
man3/argz\_insert.3 man3/argz\_next.3 man3/argz\_replace.3  
man3/argz\_stringify.3 man3/btowc.3 man3/cabs.3 man3/cabsf.3  
man3/cabsl.3 man3/cacos.3 man3/cacosf.3 man3/cacosh.3 man3/cacoshf.3  
man3/cacoshl.3 man3/cacosl.3 man3/carg.3 man3/cargf.3 man3/cargl.3  
man3/casin.3 man3/casinf.3 man3/casinh.3 man3/casinhf.3  
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man3/ccos.3 man3/ccosf.3 man3/ccosh.3 man3/ccoshf.3 man3/ccoshl.3  
man3/ccosl.3 man3/cexp.3 man3/cexp2.3 man3/cexp2f.3 man3/cexp2l.3  
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man3/clog.3 man3/clog10.3 man3/clog10f.3 man3/clog10l.3 man3/clog2.3  
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man3/ctanhf.3 man3/ctanhf.3 man3/ctanhf.3 man3/des\_crypt.3  
man3/des\_setparity.3 man3/dlclose.3 man3/dlerror.3 man3/dlmopen.3  
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man3/ecb\_crypt.3 man3/encrypt.3 man3/encrypt\_r.3 man3/endaliasent.3  
man3/endnetgrent.3 man3/endspent.3 man3/endttyent.3 man3/endtutent.3  
man3/endutxent.3 man3/envz.3 man3/envz\_add.3 man3/envz\_entry.3  
man3/envz\_get.3 man3/envz\_merge.3 man3/envz\_remove.3  
man3/envz\_strip.3 man3/errno.3 man3/eventfd\_read.3  
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man3/feclearexcept.3 man3/fedisableexcept.3 man3/feenableexcept.3  
man3/fegetenv.3 man3/fegetexcept.3 man3/fegetexceptflag.3  
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man3/key\_gendes.3 man3/key\_secretkey\_is\_set.3 man3/key\_setsecret.3  
man3/l64a.3 man3/lckpwwd.3 man3/lgamma.3 man3/lgamma\_r.3  
man3/lgammaf.3 man3/lgammaf\_r.3 man3/lgammal.3 man3/lgammal\_r.3  
man3/lio\_listio.3 man3/lockf.3 man3/login.3 man3/logout.3  
man3/logwtmp.3 man3/longjmp.3 man3/malloc\_hook.3 man3/mblen.3  
man3/mbrlen.3 man3/mbrtowc.3 man3/mbsinit.3 man3/mbsnrtowcs.3  
man3/mbsrtowcs.3 man3/mbstowcs.3 man3/mbtowc.3 man3/mempcpy.3  
man3/nan.3 man3/nanf.3 man3/nanl.3 man3/netlink.3 man3/nextafter.3  
man3/nextafterf.3 man3/nextafterl.3 man3/nexttoward.3  
man3/nexttowardf.3 man3/nexttowardl.3 man3/nftw.3 man3/nl\_langinfo.3  
man3/nl\_langinfo\_l.3 man3/ntp\_adjtime.3 man3/open\_memstream.3  
man3/open\_wmemstream.3 man3/passwd2des.3 man3/perror.3  
man3/posix\_madvise.3 man3/printf.3 man3/putgrent.3 man3/putspent.3  
man3/pututline.3 man3/pututxline.3 man3/putwc.3 man3/putwchar.3  
man3/remquo.3 man3/remquof.3 man3/remquol.3 man3/rtime.3  
man3/setaliasent.3 man3/setjmp.3 man3/setkey.3 man3/setkey\_r.3  
man3/setnetgrent.3 man3/setspent.3 man3/setttyent.3 man3/setutent.3  
man3/setutxent.3 man3/sgetspent.3 man3/sgetspent\_r.3  
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1995 Michael Chastain (mec@shell.portal.com), 15 April 1995.  
1995 Rickard E. Faith (faith@cs.unc.edu)  
1995 Yggdrasil Computing, Incorporated.  
1995-2000 David Engel (david@ods.com)  
1996  
1996 Daniel Quinlan (Daniel.Quinlan@linux.org)  
1997 Nicols Lichtmaier <nick@debian.org>  
1999 Dimitri Papadopoulos (dpo@club-internet.fr)

1999 Roman Maurer (roman.maurer@hermes.si)  
1999 SuSE GmbH Nuernberg, Germany  
1999-2003 Marvell(R) -- linux@sysconnect.de  
2000 Ben Collins (bcollins@debian.org)  
2000 Jakub Jelinek (jakub@redhat.com)  
2000 Nicols Lichtmaier <nick@debian.org>  
2001 Alexey Mahotkin <alexm@hsys.msk.ru>  
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2002 Walter Harms (walter.harms@informatik.uni-oldenburg.de)  
2002 Walter Harms <walter.harms@informatik.uni-oldenburg.de>  
2002 Walter Harms(walter.harms@informatik.uni-oldenburg.de)  
2002 walter harms (walter.harms@informatik.uni-oldenburg.de)  
2003 Walter Harms (walter.harms@informatik.uni-oldenburg.de)  
2003 Walter Harms, Andries Brouwer  
2003 walter harms (walter.harms@informatik.uni-oldenburg.de)  
2003, 2015 Michael Kerrisk <mtk.manpages@gmail.com>  
2005, 2012, 2016 Michael Kerrisk <mtk.manpages@gmail.com>  
2008, Linux Foundation, written by Michael Kerrisk  
2009 Lefteris Dimitroulakis (edimitro@tee.gr)  
2009 Lefteris Dimitroulakis (edimitro@tee.gr)  
2009 Lefteris Dimitroulakis (edimitro@tee.gr)  
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(C) 1992 Drew Eckhardt;  
(C) 1993 David Metcalfe (david@prism.demon.co.uk)  
(C) 1993 Ian Jackson  
(C) 1993 Ian Jackson.  
(C) 1993 Michael Haardt, Ian Jackson.  
(C) 1993 Michael Haardt, Ian Jackson;  
(C) 1993 Michael Haardt;  
(C) 1993 Rickard E. Faith <faith@cs.unc.edu>  
(C) 1993,1995 Ian Jackson  
(C) 1994 Andries E. Brouwer <aeb@cwi.nl>  
(C) 1995 Andries Brouwer (aeb@cwi.nl)  
(C) 1995 James R. Van Zandt <jrv@vanzandt.mv.com>  
(C) 1995 Michael Shields <shields@tembel.org>.  
(C) 1995, Thomas K. Dyas <tdyas@eden.rutgers.edu>  
(C) 1996 Andries Brouwer (aeb@cwi.nl)  
(C) 1996 Andries Brouwer <aeb@cwi.nl>  
(C) 1996 Austin Donnelly <and1000@cam.ac.uk>,  
(C) 1996 Free Software Foundation, Inc.  
(C) 1996 Michael Haardt.  
(C) 1997 Andries Brouwer (aeb@cwi.nl)  
(C) 1997 John S. Kallal  
(C) 1998 Alan Cox.  
(C) 1998 Andries Brouwer (aeb@cwi.nl)  
(C) 1998 Heiner Eisen.  
(C) 1998 Jamie Lokier;  
(C) 1998 Pawel Krawczyk.  
(C) 1999 Andi Kleen <ak@muc.de>,  
(C) 1999 Andi Kleen <ak@muc.de>.  
(C) 1999 Andries Brouwer (aeb@cwi.nl)  
(C) 1999 Claus Fischer.  
(C) 1999 Joseph Samuel Myers.  
(C) 1999 Matthew Wilcox <willy@bofh.ai>.  
(C) 2000 Andi Kleen <ak@muc.de>.  
(C) 2001 Andries Brouwer (aeb@cwi.nl)  
(C) 2001 Andries Brouwer <aeb@cwi.nl>  
(C) 2001 Andries Brouwer <aeb@cwi.nl>.  
(C) 2001 Bert Hubert <ahu@ds9a.nl>  
(C) 2001 David Gmez <davidge@jazzfree.com>  
(C) 2002 Andries Brouwer (aeb@cwi.nl)  
(C) 2002 Andries Brouwer <aeb@cwi.nl>  
(C) 2002 Ian Redfern  
(C) 2002 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2002, 2005 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2002, 2005, 2016 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2002, 2006, 2008, 2012, 2013 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2002, Michael Kerrisk  
(C) 2002-2010, 2014 Michael Kerrisk;  
(C) 2003 Andi Kleen

(C) 2003 Andries Brouwer (aeb@cwi.nl)  
(C) 2003 John Levon <levon@movementarian.org>  
(C) 2003, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2004 Andries Brouwer (aeb@cwi.nl)  
(C) 2004 Michael Kerrisk  
(C) 2004, 2006, 2007, 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2004, 2007 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2004, Michael Kerrisk  
(C) 2005 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2005, 2008 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2005, 2008, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2005, 2010, 2014, 2015, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2005, 2013 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2005, 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2006 Andi Kleen <ak@muc.de>.  
(C) 2006 Jens Axboe  
(C) 2006 Michael Kerrisk  
(C) 2006 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2006 Red Hat, Inc. All Rights Reserved.  
(C) 2006 Silicon Graphics, Inc.  
(C) 2006, 2007 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2006, 2008, 2013, 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2006, 2010 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2006, 2014 Michael Kerrisk  
(C) 2006, 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2006, 2014 Michael Kerrisk.  
(C) 2006, Michael Kerrisk  
(C) 2006, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2007 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2007, 2010 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2007, 2012 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2007, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2008 Greg Banks  
(C) 2008 Linux Foundation, written by Michael Kerrisk  
(C) 2008 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2008 Michael Kerrisk <tmk.manpages@gmail.com>  
(C) 2008 Petr Baudis <pasky@suse.cz> (dladdr caveat)  
(C) 2008, 2010, 2015, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2008, 2014, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2008, 2014,2017 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2008, 2016 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2008, George Spelvin <linux@horizon.com>,  
(C) 2008, Linux Foundation, written by Michael Kerrisk  
(C) 2008, Matt Mackall <mpm@selenic.com>  
(C) 2008, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2008, Nanno Langstraat <nal@ii.nl>  
(C) 2008-2014, Michael Kerrisk <mtk.manpages@gmail.com>,  
(C) 2009 Petr Baudis <pasky@suse.cz>



(C) 2009, Linux Foundation, written by Michael Kerrisk  
(C) 2010 Intel Corporation, Author: Andi Kleen  
(C) 2010, 2014, 2015, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2010, 2015, 2017 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2010, 2015, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2011 Christopher Yeoh <cyeh@au1.ibm.com>  
(C) 2011 by Andi Kleen <andi@firstfloor.org>  
(C) 2012 Chandan Apsangi <chandan.jc@gmail.com>  
(C) 2012 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2012 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2012 Mike Frysinger <vapier@gentoo.org>  
(C) 2012 Will Drewry <wad@chromium.org>  
(C) 2012, 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2012, 2016, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2012, Cyrill Gorcunov <gorcunov@openvz.org>  
(C) 2013 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2013, Heinrich Schuchardt <xypron.glpk@gmx.de>  
(C) 2013, Heinrich Schuchardt <xypron.glpk@gmx.de>  
(C) 2014 Dave Hansen / Intel  
(C) 2014 David Herrmann  
(C) 2014 Heinrich Schuchardt <xypron.glpk@gmx.de>  
(C) 2014 Jeff Layton  
(C) 2014 Kees Cook <keescook@chromium.org>  
(C) 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2014 Peter Zijlstra <peterz@infradead.org>  
(C) 2014, Heinrich Schuchardt <xypron.glpk@gmx.de>  
(C) 2014, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2014, Theodore Ts'o <tytso@mit.edu>  
(C) 2014,2015 Heinrich Schuchardt <xypron.glpk@gmx.de>  
(C) 2015 Alexei Starovoitov <ast@kernel.org>  
(C) 2015 Anna Schumaker <Anna.Schumaker@Netapp.com>  
(C) 2015 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2015 Serge Hallyn <serge@hallyn.com>  
(C) 2015, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2016 Eugene Syromyatnikov <evgsyr@gmail.com>  
(C) 2016 Florian Weimer <fweimer@redhat.com>  
(C) 2016 Intel Corporation  
(C) 2016 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2016, 2017 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2016, Heinrich Schuchardt <xypron.glpk@gmx.de>  
(C) 2016, Laurent Georget <laurent.georget@supelec.fr>  
(C) 2016, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2016, Nikos Mavrogiannopoulos <nnav@redhat.com>  
(C) 2017 Jens Axboe  
(C) 2017 Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2017 Tyler Hicks <tyhicks@canonical.com>  
(C) 2017, Michael Kerrisk <mtk.manpages@gmail.com>  
(C) 2018, Stefan Hajnoczi <stefanha@redhat.com>

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(C), 1994, Graeme W. Wilford (Wilf).  
(C), 1994, Graeme W. Wilford. (Wilf.)  
(C), 1995, Graeme W. Wilford. (Wilf.)  
(c) 1992 Drew Eckhardt (drew@cs.colorado.edu), March 28, 1992  
(c) 1992 Drew Eckhardt <drew@cs.colorado.edu>, March 28, 1992  
(c) 1992 Drew Eckhardt, March 28, 1992  
(c) 1993 Luigi P. Bai (lpb@softint.com) July 28, 1993  
(c) 1993 by Thomas Koenig (ig25@rz.uni-karlsruhe.de)  
(c) 1993 by Thomas Koenig <ig25@rz.uni-karlsruhe.de>  
(c) 1994 Mike Battersby  
(c) 1994,1995 Mike Battersby <mib@deakin.edu.au>  
(c) 1995 Martin Schulze  
(c) 1995 Nicolai Langfeldt (janl@ifi.uio.no), 1/1/95  
(c) 1995 by Jim Van Zandt <jrv@vanzandt.mv.com>  
(c) 1998 Andries Brouwer (aeb@cwi.nl)  
(c) 1998 Andries Brouwer (aeb@cwi.nl), 24 September 1998  
(c) 1999 Andries Brouwer (aeb@cwi.nl)  
(c) 1999 Andries Brouwer (aeb@cwi.nl), 1 Nov 1999  
(c) 2000 Andries Brouwer <aeb@cwi.nl>  
(c) 2000 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2001 Andreas Dilger (adilger@turbolinux.com)  
(c) 2001 John Levon <moz@compsoc.man.ac.uk>  
(c) 2001 by John Levon <moz@compsoc.man.ac.uk>  
(c) 2001, 2017 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2002 Andries Brouwer <aeb@cwi.nl>  
(c) 2002 Michael Kerrisk  
(c) 2002 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2002 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2002, 2004, 2005, 2008, 2010 Michael Kerrisk  
(c) 2002, 2006 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2002, 2011 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2003 Andries Brouwer (aeb@cwi.nl), Aug 24, 2003  
(c) 2003 Nick Clifford (zaf@nrc.co.nz), Jan 25, 2003  
(c) 2003, 2017 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2004 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2005 Michael Kerrisk  
(c) 2005 Silicon Graphics Incorporated.  
(c) 2005 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2006 Andrew Morton <akpm@osdl.org>  
(c) 2006 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2006 Ulrich Drepper <drepper@redhat.com>  
(c) 2006 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2006, 2007, 2008, 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2006, 2007, 2014 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2006, 2008 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2006, 2008, Michael Kerrisk  
(c) 2006, 2008, Michael Kerrisk <mtk.manpages@gmail.com>

(c) 2006, 2014, Michael Kerrisk  
(c) 2006, Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2007 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2007 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2007, 2008 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2007, Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2008 Linux Foundation, written by Michael Kerrisk  
(c) 2008 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2008 Petr Baudis <pasky@suse.cz>  
(c) 2008 by Gerrit Renker <gerrit@erg.abdn.ac.uk>  
(c) 2008, Linux Foundation, written by Michael Kerrisk  
(c) 2009 Bill O. Gallmeister (bgallmeister@gmail.com)  
(c) 2009 Intel Corporation, Author Andi Kleen  
(c) 2009 Linux Foundation, written by Michael Kerrisk  
(c) 2009 Michael Kerrisk, <mtk.manpages@gmail.com>  
(c) 2009 Petr Baudis <pasky@suse.cz>  
(c) 2010 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2010 Michael Kerrisk, <mtk.manpages@gmail.com>  
(c) 2010 Novell Inc., written by Robert Schweikert  
(c) 2010 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2010, Jan Kara  
(c) 2010, Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2011 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2011 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2012 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2012 YOSHIFUJI Hideaki <yoshfuji@linux-ipv6.org>  
(c) 2012 by Eric W. Biederman <ebiederm@xmission.com>  
(c) 2012 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2012, 2014 by Eric W. Biederman <ebiederm@xmission.com>  
(c) 2012, IBM Corporation.  
(c) 2012, Michael Kerrisk <mtk.man-pages@gmail.com>  
(c) 2012, Petr Benas  
(c) 2013 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2013, 2014 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2014 Google, Inc., written by David Drysdale  
(c) 2014 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2015 William Woodruff (william@tuffbizz.com)  
(c) 2015 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2015, 2016 IBM Corporation.  
(c) 2015, IBM Corporation.  
(c) 2015, Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2016 Julia Computing Inc, Keno Fischer  
(c) 2016 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2016 by Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2016, IBM Corporation.  
(c) 2017 David Howells <dhowells@redhat.com>  
(c) 2017 Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2017 by Michael Kerrisk <mtk.manpages@gmail.com>

(c) 2017, Michael Kerrisk <mtk.manpages@gmail.com>  
(c) 2017, Yubin Ruan <ablacktshirt@gmail.com>  
1991, 1992 Free Software Foundation  
1992 Rickard E. Faith (faith@cs.unc.edu)  
1992-1999 Rickard E. Faith and David A. Wheeler  
1993 David Metcalfe (david@prism.demon.co.uk)  
1993 Giorgio Ciucci (giorgio@crcc.it)  
1993 Giorgio Ciucci <giorgio@crcc.it>  
1993 Luigi P. Bai  
1993 Mitchum DSouza <m.dsouza@mrc-applied-psychology.cambridge.ac.uk>  
1993 Mitchum DSouza <m.dsouza@mrc-apu.cam.ac.uk>  
1993 Rickard E. Faith (faith@cs.unc.edu)  
1993 Rickard E. Faith (faith@cs.unc.edu) and  
1995 James R. Van Zandt <jrv@vanzandt.mv.com>  
1995 James R. Van Zandt <jrv@vanzandt.mv.com>  
1995 Jim Van Zandt  
1995 Jim Van Zandt <jrv@vanzandt.mv.com>  
1995 Robert K. Nichols (Robert.K.Nichols@att.com)  
1995 by Jim Van Zandt <jrv@vanzandt.mv.com>  
1997 Andries E. Brouwer (aeb@cw.nl)  
1999 by Bruno Haible (haible@clisp.cons.org)  
1999-2000 David A. Wheeler (dwheeler@dwheeler.com)  
1999-2005 Kai Mkisara (Kai.Makisara@kolumbus.fi)  
2000 Sam Varshavchik <mrsam@courier-mta.com>  
2000, Sam Varshavchik <mrsam@courier-mta.com>  
2001 Andries Brouwer <aeb@cw.nl>.  
2001 John Levon <moz@compsoc.man.ac.uk>  
2001 Walter Harms (walter.harms@informatik.uni-oldenburg.de)  
2001 walter harms (walter.harms@informatik.uni-oldenburg.de)  
2001, 2017 Michael Kerrisk <mtk.manpages@gmail.com>  
2002 Ian Redfern (redferni@logica.com)  
2002 Michael Kerrisk  
2003 Abhijit Menon-Sen <ams@wiw.org>  
2003 Andries E. Brouwer (aeb@cw.nl)  
2003 Walter Harms, 2004 Andries Brouwer <aeb@cw.nl>.  
2003,2004 Andi Kleen, SuSE Labs.  
2004 Andries Brouwer (aeb@cw.nl)  
2004 Andries Brouwer <aeb@cw.nl>.  
2004, 2005 Michael Kerrisk <mtk.manpages@gmail.com>  
2006 Michael Kerrisk <mtk.manpages@gmail.com>  
2006, 2012, 2017 Michael Kerrisk <mtk.manpages@gmail.com>  
2007 (C) Michael Kerrisk <mtk.manpages@gmail.com>  
2007 Lee Schermerhorn, Hewlett Packard  
2007 Michael Kerrisk <mtk.manpages@gmail.com>  
2008 Michael Kerrisk <mtk.manpages@gmail.com>  
2008, 2015 Michael Kerrisk <mtk.manpages@gmail.com>  
2008, Linux Foundation, written by Michael Kerrisk  
2009 Intel Corporation

2010 Michael Kerrisk  
2010 Michael Kerrisk <mtk.manpages@gmail.com>  
2012 Michael Kerrisk <mtk.manpages@gmail.com>  
2013 Michael Kerrisk <mtk.manpages@gmail.com>  
2013, Michael Kerrisk <mtk.manpages@gmail.com>  
2014 Michael Kerrisk <mtk.manpages@gmail.com>  
2014, Vivek Goyal <vgoyal@redhat.com>  
2015 Michael Kerrisk <mtk.manpages@gmail.com>  
2015-2017 Mathieu Desnoyers <mathieu.desnoyers@efficios.com>  
Guillem Jover <guillem@hadrons.org>

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`#`

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`#`



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```

```
import re
import sys
import textwrap
from pathlib import Path
```

```
# The standard short names in Debian are defined here:
# https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/
```

```
license_information = [
    {
        'shortname': 'BSD-3-clause',
        'filename': 'BSD-3-clause-UCB',
        'upstream_names': ['BSD_3_CLAUSE_UCB'],
    },
    {
        'shortname': 'BSD-4-clause',
        'filename': 'BSD-4-clause-UCB',
        'upstream_names': ['BSD_4_CLAUSE_UCB', 'BSD_ONELINE_CDROM'],
    },
    {
        'shortname': 'Expat',
        'filename': 'Expat',
        'upstream_names': ['PERMISSIVE_MISC', 'MIT'],
    },
    {
        # This shortname is not defined by the standard.
        'shortname': 'freely-redistributable',
        'filename': 'freely-redistributable',
        'upstream_names': ['FREELY_REDISTRIBUTABLE'],
    },
    {
        'shortname': 'GPL-2',
        'filename': 'GPL-2',
        'upstream_names': ['GPLv2_MISC', 'GPLv2_ONELINE'],
    },
]
```

```

{
'shortname': 'GPL-2+',
'filename': 'GPL-2+',
'upstream_names': ['GPL_NOVERSION_ONELINE', 'GPLv2+',
                    'GPLv2+_DOC_FULL', 'GPLv2+_DOC_MISC',
                    'GPLv2+_DOC_ONEPARA', 'GPLv2+_SW_3_PARA',
                    'GPLv2+_SW_ONEPARA'],
},
{
# This shortname is not defined by the standard.
'shortname': 'henry-spencer-regex',
'filename': 'henry-spencer-regex',
'upstream_names': ['MISC'],
},
{
# This shortname is not defined by the standard.
'shortname': 'LDPv1',
'filename': 'LDPv1',
'upstream_names': ['LDPv1'],
},
{
'shortname': 'public-domain',
'filename': 'public-domain',
'upstream_names': ['PUBLIC_DOMAIN'],
},
{
# This shortname is not defined by the standard.
'shortname': 'verbatim',
'filename': 'verbatim',
'upstream_names': ['VERBATIM', 'VERBATIM_ONE_PARA',
                    'VERBATIM_TWO_PARA', 'VERBATIM_PROF'],
},
]

```

```
licenses_with_manpages = { }
```

```
symlinks = { }
```

```
def get_license_shortcode(name):
```

```
    """Gets the Debian shortname for the name supplied by upstream.
```

```
    Includes a check that upstream's names are only assigned
    to one shortname.
```

```
    """
```

```
    shortcode = ""
```

```
    already_found = False
```

```
    for info in license_information:
```

```
        if name in info['upstream_names']:
```

```
            if not already_found:
```

```

    shortname = info['shortname']
    already_found = True
else:
    sys.exit("Fatal error: Upstream license name defined multiple times: " + name)
return shortname

def add_manpage_to_shortcode(manpage, copyright_holders, licenses):
    # Ensure a string for the filename
    filename = str(manpage)
    # Strip the leading "./"
    filename = filename[3:len(filename)]
    # Common case: only one license for the manpage, so
    # the shortname is just e.g. "GPL-2+"
    shortname = " and ".join(sorted(licenses))
    if shortname not in licenses_with_manpages:
        licenses_with_manpages[shortname] = {'files': [filename], 'copyright': copyright_holders}
    else:
        licenses_with_manpages[shortname]['files'].append(filename)
    # Do not add same lines twice
    existing_copyright_holders = licenses_with_manpages[shortname]['copyright']
    joined_copyright_holders = list(set(existing_copyright_holders + copyright_holders))
    licenses_with_manpages[shortname]['copyright'] = joined_copyright_holders

def get_copyright_stanza(shortname, file_info):
    stanza = ""
    # Collect files and symlinks into a common list
    all_files = file_info['files']
    for file in file_info['files']:
        if file in symlinks:
            all_files = all_files + symlinks[file]
    # Join the files into a whitespace separated list,
    # at most 76 characters long
    files = " ".join(sorted(all_files))
    # The wrap is 69 + 7 (length of "Files: ") = 76
    files = textwrap.wrap(files, width=69, break_long_words=False, break_on_hyphens=False)
    files = "\n    ".join(files)
    # Now format the copyright holders
    copyright = "\n        ".join(sorted(file_info['copyright']))
    # An empty field is an error, so ensure a value
    if len(copyright) == 0:
        copyright = "(could not be detected automatically)"
    # Finally, create the stanza
    stanza += "Files: " + files
    stanza += "\nCopyright: " + copyright
    stanza += "\nLicense: " + shortname + "\n\n"
    return stanza

def get_license_text(shortname):

```

```

""Gets the text for the Debian license shortname.""
text = ""
for info in license_information:
    if info['shortname'] == shortname:
        text += "License: " + shortname + "\n"
        with open("licenses/" + info['filename']) as licensefile:
            for line in licensefile:
                text += " " + line
        return text

p = Path(".")
for manpage in p.glob("man?/*"):
    with manpage.open() as file:
        licenses = []
        copyright_holders = []
        manpage_is_symlink = False
        for line in file:
            # Do not create copyright stanzas for symlink files
            # but add them to a symlink list
            symlink = re.search(r"^\.so (.*)", line)
            if symlink:
                manpage_is_symlink = True
                # Ensure a string for the filename
                linkname = str(manpage)
                # Strip the leading "../"
                linkname = linkname[3:len(linkname)]
                filename = symlink.group(1)
                if filename in symlinks:
                    symlinks[filename].append(linkname)
                else:
                    symlinks[filename] = [linkname]
                break
            # Only parse the header, so stop after seeing ".TH"
            if re.search(r"^\.TH", line):
                break
            # Extract all copyright holders
            copyright = re.search(r"^\.\.\. .*?Copyright (.*)", line)
            if copyright:
                copyright_holders.append(copyright.group(1))
            # Match the beginning of the license
            license_start = re.search(r"^\.\.\. %% %LICENSE_START\((.*)\)", line)
            if license_start:
                license_name = license_start.group(1)
                license_short_name = get_license_shortname(license_name)
                if not license_short_name:
                    sys.exit("Fatal error: Upstream license name not known: " + license_name)
                licenses.append(license_short_name)
        if not manpage_is_symlink:

```

```

add_manpage_to_shortcode(manpage, copyright_holders, licenses)

# Flatten the symlinks by detecting and removing
# a symlink which points to another symlink.
for link_to_test in symlinks:
    # Now cycle through all symlink entries
    for link in symlinks:
        if link_to_test in symlinks[link]:
            symlinks[link] = symlinks[link] + symlinks[link_to_test]

# Make sorting of licenses deterministic
stanzas = ""
license_texts = []
for shortname in sorted(licenses_with_manpages):
    stanzas += get_copyright_stanza(shortname, licenses_with_manpages[shortname])
    text = get_license_text(shortname)
    if text:
        license_texts.append(text)

# Read in the first lines of copyright, without
# the automatically generated parts. Stop after
# the third occurrence of "License".
manual_lines = ""
license_line_count = 0
with open("copyright") as copyright_file:
    for line in copyright_file:
        manual_lines += line
        if re.search(r"^\License:", line):
            license_line_count += 1
            if license_line_count == 3:
                # Add a final newline for separation
                manual_lines += "\n"
                break

# Open the file for output
with open("copyright", "w") as copyright_file:
    copyright_file.write(manual_lines)
    copyright_file.write(stanzas)
    copyright_file.write("\n".join(license_texts))
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## 1.21 libtasn 4.13-2

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Julian Seward, Cambridge, UK.  
jseward@bzip.org  
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## 1.23 grpc-go 1.24.0

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## Constant-time SSSE3 AES core implementation.

## version 0.1

##

## By Mike Hamburg (Stanford University), 2009

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##

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## 1.26 shadow 4.5 1ubuntu1

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docs/FTL.TXT
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include/freetype/internal/fthash.h
#
src/base/fthash.c
src/base/md5.c
src/base/md5.h
#
src/bdf/bdf.c
src/bdf/bdf.h
src/bdf/bdfdrivr.c
src/bdf/bdfdrivr.h
src/bdf/bdferror.h
src/bdf/bdflib.c
src/bdf/module.mk
src/bdf/README
src/bdf/rules.mk
#
src/pcf/module.mk
src/pcf/pcf.c
src/pcf/pcf.h
src/pcf/pcfdrivr.c
src/pcf/pcfdrivr.h
src/pcf/pcferror.h
src/pcf/pcfread.c
src/pcf/pcfread.h
src/pcf/pcfutil.c
src/pcf/pcfutil.h
```

```
src/pcf/README
src/pcf/rules.mk
#
src/gzip/adler32.c
src/gzip/infblock.c
src/gzip/infblock.h
src/gzip/infcodes.c
src/gzip/infcodes.h
src/gzip/inffixed.h
src/gzip/inflate.c
src/gzip/inftrees.c
src/gzip/inftrees.h
src/gzip/infutil.c
src/gzip/infutil.h
src/gzip/zconf.h
src/gzip/zlib.h
src/gzip/zutil.c
src/gzip/zutil.h
#
src/tools/apinames.c
src/tools/ftrandom/ftrandom.c
#
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## 1.29 readline 4.4.18 2ubuntu1.2

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## 1.30 libxau 1.0.8 1

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## 1.31 nettle 3.5.18-1ubuntu1

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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```

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```
@c The GNU General Public License.  
@center Version 3, 29 June 2007
```

```
@c This file is intended to be included within another document,  
@c hence no sectioning command or @node.
```

```
@display  
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```
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```
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```

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## 1.37 apt 1.6.11

## 1.38 curl 7.58.0 2ubuntu3.6

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libcurl can be built to use a fair amount of various third party libraries, libraries that are written and provided by other parties that are distributed using their own licenses. Even libcurl itself contains code that may cause problems to some. This document attempts to describe what licenses libcurl and the other libraries use and what possible dilemmas linking and mixing them all can lead to for end users.

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One common dilemma is that [GPL](<https://www.gnu.org/licenses/gpl.html>) licensed code is not allowed to be linked with code licensed under the [Original BSD license](<https://spdx.org/licenses/BSD-4-Clause.html>) (with the announcement clause). You may still build your own copies that use them all, but distributing them as binaries would be to violate the GPL license - unless you accompany your license with an [exception](<https://www.gnu.org/licenses/gpl-faq.html#GPLIncompatibleLibs>). This particular problem was addressed when the [Modified BSD license](<https://opensource.org/licenses/BSD-3-Clause>) was created, which does not have the announcement clause that collides with GPL.

## libcurl

Uses an [MIT style license](<https://curl.haxx.se/docs/copyright.html>) that is very liberal.

## OpenSSL

(May be used for SSL/TLS support) Uses an Original BSD-style license with an announcement clause that makes it "incompatible" with GPL. You are not allowed to ship binaries that link with OpenSSL that includes GPL code (unless that specific GPL code includes an exception for OpenSSL - a habit that is growing more and more common). If OpenSSL's licensing is a problem for you, consider using another TLS library.

## ## GnuTLS

(May be used for SSL/TLS support) Uses the [LGPL](<https://www.gnu.org/licenses/lgpl.html>) license. If this is a problem for you, consider using another TLS library. Also note that GnuTLS itself depends on and uses other libs (libgcrypt and libgpg-error) and they too are LGPL- or GPL-licensed.

## ## WolfSSL

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## ## BoringSSL

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## ## libressl

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## ## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## ## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

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## Heimdal

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

## 1.39 hostname 3.20

### 1.39.1 Available under license :

This package was written by Peter Tobias <tobias@et-inf.fho-emden.de> on Thu, 16 Jan 1997 01:00:34 +0100.

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hostname -- set the host name or show the host/domain name

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## 1.40 util-linux 2.31.1 0.4ubuntu3.3

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Version 2.1, February 1999

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```
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## 1.41 x-crypto

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## 1.42 gnupg 2.2.4 1ubuntu1.2

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```
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#+TITLE: List of code with permissive licenses as used by GnuPG.  
#+STARTUP: showall
```

```
* DNS resolver (dirmngr/dns.c)
```

dns.c - Recursive, Reentrant DNS Resolver.

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## 1.46 perks 1.0.1

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## 1.47 systemd 237 3ubuntu10.33

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## 1.48 e2fsprogs 1.44.1 1ubuntu1.1

### 1.48.1 Available under license :

Index: tdbsa/tdb.c

-----  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version
  
- trivial database library - private includes
- 
- Copyright (C) Andrew Tridgell            2005
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\*\* library. This does NOT imply that all of Samba is released  
This package was added to the e2fsprogs debian source package by  
Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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This is the Debian GNU/Linux prepackaged version of the translation files of the EXT2 file system utilities. The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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```
#
# This is a Makefile stub which handles the creation of BSD shared
# libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
```

```
all:: image
```

```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LD\_FLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;' /\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \

\$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

@-\$(LD\_CONFIG)

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

\$(RM) -f \$(DESTDIR)\$ (BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)

clean::

\$(RM) -rf pic

\$(RM) -f \$(BSD\_LIB)

\$(RM) -f ../\$(BSD\_LIB)

/\*

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\*/

This is the Debian GNU/Linux prepackaged version of the Common Error  
Description library. It is currently distributed together with the EXT2 file  
system utilities, which are otherwise packaged as "e2fsprogs".



This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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Theodore Ts'o  
23-June-2007

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Gadi Oxman, August 1995

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```

```
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Ty Coon, President of Vice
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## 1.51 zlib 1.2.11

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
version 1.2.11, January 15th, 2017
```

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## 1.52 xorg 7.7+19ubuntu7.1

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Source Package: xorg

Debian/Ubuntu package authors: Branden Robinson, Fabio M. Di Nitto, Daniel Stone and others

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## 1.56 iconv 2.27 3ubuntu1

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```
<one line to give the program's name and a brief idea of what it does.>  
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```

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```
<program> Copyright (C) <year> <name of author>  
This program comes with ABSOLUTELY NO WARRANTY; for details type `show w'.  
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under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, your program's commands might be different; for a GUI interface, you would use an "about box".

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## 1.57 libseccomp 2.3.1-2.1ubuntu4

### 1.57.1 Available under license :

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Version 2.1, February 1999

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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When a "work that uses the Library" uses material from a header file

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## 1.58 readline 4.4.18 2ubuntu1

### 1.58.1 Available under license :

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-- \$Id: COPYING,v 1.6 2018/01/01 12:00:00 tom Exp \$  
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## 1.62 sensible-utils 0.0.12

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Upstream-Contact: Anibal Monsalve Salazar <[anibal@debian.org](mailto:anibal@debian.org)>

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## 1.63 grep 3.1 2

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Version 3, 29 June 2007

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@enumerate a

@item

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@item

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

@item

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@item

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

@item

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions

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@item

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

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```
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## 1.67 nettle 3.4 1

### 1.67.1 Available under license :

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## 1.68 etcd 3.3.13

### 1.68.1 Available under license :

procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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Other contributors include:

Anthony Towns <ajt@debian.org>

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Tollef Fog Heen <tfheen@debian.org>

Attilio Fiandrotti <fiandro@tiscali.it>

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## 1.70 x-time-rate

555d28b269f0569763d25dbe1a237ae74c6bcc8

## 2

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## 1.71 ncurses 6.1 1ubuntu1.18.04

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Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Upstream source <https://invisible-island.net/ncurses/ncurses.html>

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## 1.73 etcdctl 3.4.3 3.4.3

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Go support for Protocol Buffers - Google's data interchange format

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procs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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## 1.74 spring-beans 5.0.2

## 1.75 libpcap 1.8.1-6ubuntu1.18.04.1

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# 1.77 gnu-tls 3.5.18-1ubuntu1.1

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```
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```
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```

# 1.78 k3s 0.8.1 0.8.1

## 1.78.1 Available under license :

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Brian Goff <[cpuguy83@gmail.com](mailto:cpuguy83@gmail.com)>

Clayton Coleman <[ccoleman@redhat.com](mailto:ccoleman@redhat.com)>

Denis Smirnov <[denis.smirnov.91@gmail.com](mailto:denis.smirnov.91@gmail.com)>

DongYun Kang <[ceram1000@gmail.com](mailto:ceram1000@gmail.com)>

Dwayne Schultz <[dschultz@pivotal.io](mailto:dschultz@pivotal.io)>

Georg Apitz <[gapitz@pivotal.io](mailto:gapitz@pivotal.io)>

Gustav Paul <[gustav.paul@gmail.com](mailto:gustav.paul@gmail.com)>

Johan Brandhorst <[johan.brandhorst@gmail.com](mailto:johan.brandhorst@gmail.com)>

John Shahid <[jvshahid@gmail.com](mailto:jvshahid@gmail.com)>

John Tuley <[john@tuley.org](mailto:john@tuley.org)>

Laurent <[laurent@adyoulike.com](mailto:laurent@adyoulike.com)>

Patrick Lee <[patrick@dropbox.com](mailto:patrick@dropbox.com)>

Peter Edge <[peter.edge@gmail.com](mailto:peter.edge@gmail.com)>

Roger Johansson <[rogeralsing@gmail.com](mailto:rogeralsing@gmail.com)>

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Sergio Arbo <[serabe@gmail.com](mailto:serabe@gmail.com)>

Stephen J Day <[stephen.day@docker.com](mailto:stephen.day@docker.com)>

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Todd Eisenberger <[teisenberger@dropbox.com](mailto:teisenberger@dropbox.com)>

Tormod Erevik Lea <[tormodlea@gmail.com](mailto:tormodlea@gmail.com)>

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Alex A. Skinner

Andrew Tunnell-Jones

Ask Bjrñ Hansen

Dave Cheney

Dusty Wilson  
Marek Majkowski  
Peter van Dijk  
Omri Bahumi  
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If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

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Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

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## 1.84 coreutils 8.28 1ubuntu1

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### ## GnuTLS

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## zlib

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

(Used for scp and sftp support) libssh2 uses a Modified BSD-style license.

## 1.88 sysv-init 2.88dsf 59.10ubuntu1

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The of the start-stop-daemon

- \* A rewrite of the original Debian's start-stop-daemon Perl script
- \* in C (faster - it is executed many times during system startup).
- \*
- \* Written by Marek Michalkiewicz <[marekm@i17linuxb.ists.pwr.wroc.pl](mailto:marekm@i17linuxb.ists.pwr.wroc.pl)>,
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## 1.89 libksba 1.3.5-2

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# 1.92 debconf 1.5.66

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# 1.94 jsr305 1.3.9

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Upstream-Name: libassuan

Upstream-Contact: Werner Koch <[wk@gnupg.org](mailto:wk@gnupg.org)>

Source: <https://gnupg.org/ftp/gcrypt/libassuan/>

Files: \*

Makefile.am

src/Makefile.am

src/assuan-buffer.c

src/assuan-error.c

src/assuan-inquire.c

src/assuan-io.c

src/assuan-listen.c

src/assuan-pipe-server.c

src/assuan-socket-connect.c

src/assuan-socket-server.c

src/assuan-socket.c

src/assuan-uds.c

src/client.c

src/context.c

src/funopen.c

src/memrchr.c

src/posix-fd-t.inc.h

src/posix-includes.inc.h

src/posix-sock-nonce.inc.h

src/posix-sys-pth-impl.h

src/posix-types.inc.h

src/putc\_unlocked.c

src/server.c

src/setenv.c

src/stpcpy.c

src/system-posix.c

src/system-w32.c

src/system-w32ce.c

src/system.c

src/w32-fd-t.inc.h

src/w32-includes.inc.h

src/w32-sock-nonce.inc.h

src/w32-sys-pth-impl.h  
src/w32-types.inc.h  
src/w32ce-add.h  
src/w32ce-fd-t.inc.h  
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configure  
INSTALL  
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m4/ltoptions.m4  
m4/ltsugar.m4  
m4/ltversion.m4  
m4/lt~obsolete.m4  
m4/onceonly.m4  
m4/socklen.m4  
m4/sys\_socket\_h.m4  
m4/Makefile.in  
src/libassuan-config.in  
src/libassuan.m4  
src/mkheader.c

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Files: doc/Makefile.am  
doc/Makefile.in  
src/gpgcedev.c  
src/gpgcedev.def  
src/gpgcemgr.c  
tests/Makefile.am  
tests/Makefile.in  
tests/ce-creatpipe.c  
tests/ce-server.c  
tests/common.h  
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`tests/version.c`

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Files: `build-aux/compile`  
`build-aux/ltmain.sh`  
`m4/libtool.m4`  
`build-aux/missing`

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# 1.99 kerberos 1.16 2ubuntu0.1

## 1.99.1 Available under license :

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
<head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
  <title>Copyright &#8212; MIT Kerberos Documentation</title>
  <link rel="stylesheet" href="_static/agogo.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
  <link rel="stylesheet" href="_static/kerb.css" type="text/css" />
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT: './',
      VERSION: '1.17',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link rel="author" title="About these documents" href="about.html" />
  <link rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
  <link rel="copyright" title="Copyright" href="#" />
  <link rel="next" title="How to build this documentation from the source" href="build_this.html" />
  <link rel="prev" title="MIT Kerberos License information" href="mitK5license.html" />
</head>
```

```
<body>
  <div class="header-wrapper">
    <div class="header">

      <h1><a href="index.html">MIT Kerberos Documentation</a></h1>

      <div class="rel">

        <a href="index.html" title="Full Table of Contents"
          accesskey="C">Contents</a> |
        <a href="mitK5license.html" title="MIT Kerberos License information"
          accesskey="P">previous</a> |
        <a href="build_this.html" title="How to build this documentation from the source"
          accesskey="N">next</a> |
        <a href="genindex.html" title="General Index"
          accesskey="I">index</a> |
        <a href="search.html" title="Enter search criteria"
          accesskey="S">Search</a> |
        <a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
      </div>
    </div>
  </div>

  <div class="content-wrapper">
    <div class="content">
      <div class="document">

        <div class="documentwrapper">
          <div class="bodywrapper">
            <div class="body" role="main">

              <div class="section" id="copyright">
                <h1>Copyright<a class="headerlink" href="#copyright" title="Permalink to this headline"></a></h1>
                <p>Copyright 1985-2019 by the Massachusetts Institute of
                Technology and its contributors. All rights reserved.</p>
                <p>See <a class="reference internal" href="mitK5license.html#mitk5license"><span class="std std-ref">MIT
                Kerberos License information</span></a> for additional copyright and license
                information.</p>
              </div>

            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
  <div class="sidebar">
    <h2>On this page</h2>
```

```
<ul>
<li><a class="reference internal" href="#">Copyright</a></li>
</ul>
```

```
<br/>
```

```
<h2>Table of contents</h2>
```

```
<ul>
```

```
<li class="toctree-l1"><a class="reference internal" href="user/index.html">For users</a></li>
<li class="toctree-l1"><a class="reference internal" href="admin/index.html">For administrators</a></li>
<li class="toctree-l1"><a class="reference internal" href="appdev/index.html">For application developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="plugindev/index.html">For plugin module
developers</a></li>
<li class="toctree-l1"><a class="reference internal" href="build/index.html">Building Kerberos V5</a></li>
<li class="toctree-l1"><a class="reference internal" href="basic/index.html">Kerberos V5 concepts</a></li>
<li class="toctree-l1"><a class="reference internal" href="formats/index.html">Protocols and file formats</a></li>
<li class="toctree-l1"><a class="reference internal" href="mitK5features.html">MIT Kerberos features</a></li>
<li class="toctree-l1"><a class="reference internal" href="build_this.html">How to build this documentation from
the source</a></li>
<li class="toctree-l1"><a class="reference internal" href="about.html">Contributing to the MIT Kerberos
Documentation</a></li>
<li class="toctree-l1"><a class="reference internal" href="resources.html">Resources</a></li>
</ul>
```

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<br/>
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<h4><a href="index.html">Full Table of Contents</a></h4>
```

```
<h4>Search</h4>
```

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  <input type="text" name="q" size="18" />
  <input type="submit" value="Go" />
  <input type="hidden" name="check_keywords" value="yes" />
  <input type="hidden" name="area" value="default" />
</form>
</div>
<div class="clearer"></div>
</div>
</div>
```

```
<div class="footer-wrapper">
```

```
  <div class="footer" >
```

```
    <div class="right" ><i>Release: 1.17</i><br />
```

```
      &copy; <a href="#">Copyright</a> 1985-2019, MIT.
```

```
    </div>
```

```
  <div class="left">
```

```
    <a href="index.html" title="Full Table of Contents"
```

```
      >Contents</a> |
```

```
    <a href="mitK5license.html" title="MIT Kerberos License information"
```

```
      >previous</a> |
```

```
<a href="build_this.html" title="How to build this documentation from the source"
>next</a> |
<a href="genindex.html" title="General Index"
>index</a> |
<a href="search.html" title="Enter search criteria"
>Search</a> |
<a href="mailto:krb5-bugs@mit.edu?subject=Documentation__Copyright">feedback</a>
</div>
</div>
</div>

</body>
</html>
```

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in "src/lib/gssapi", including the following files:

lib/gssapi/generic/gssapi\_err\_generic.et  
lib/gssapi/mechglue/g\_accept\_sec\_context.c  
lib/gssapi/mechglue/g\_acquire\_cred.c  
lib/gssapi/mechglue/g\_canon\_name.c  
lib/gssapi/mechglue/g\_compare\_name.c  
lib/gssapi/mechglue/g\_context\_time.c  
lib/gssapi/mechglue/g\_delete\_sec\_context.c  
lib/gssapi/mechglue/g\_dsp\_name.c  
lib/gssapi/mechglue/g\_dsp\_status.c

lib/gssapi/mechglue/g\_dup\_name.c  
lib/gssapi/mechglue/g\_exp\_sec\_context.c  
lib/gssapi/mechglue/g\_export\_name.c  
lib/gssapi/mechglue/g\_glue.c  
lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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```
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/*
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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in ``src/lib/gssapi``, including the following files:

.. parsed-literal::

```
lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
```

lib/gssapi/mechglue/g\_imp\_name.c  
lib/gssapi/mechglue/g\_imp\_sec\_context.c  
lib/gssapi/mechglue/g\_init\_sec\_context.c  
lib/gssapi/mechglue/g\_initialize.c  
lib/gssapi/mechglue/g\_inquire\_context.c  
lib/gssapi/mechglue/g\_inquire\_cred.c  
lib/gssapi/mechglue/g\_inquire\_names.c  
lib/gssapi/mechglue/g\_process\_context.c  
lib/gssapi/mechglue/g\_rel\_buffer.c  
lib/gssapi/mechglue/g\_rel\_cred.c  
lib/gssapi/mechglue/g\_rel\_name.c  
lib/gssapi/mechglue/g\_rel\_oid\_set.c  
lib/gssapi/mechglue/g\_seal.c  
lib/gssapi/mechglue/g\_sign.c  
lib/gssapi/mechglue/g\_store\_cred.c  
lib/gssapi/mechglue/g\_unseal.c  
lib/gssapi/mechglue/g\_userok.c  
lib/gssapi/mechglue/g\_utils.c  
lib/gssapi/mechglue/g\_verify.c  
lib/gssapi/mechglue/gssd\_pname\_to\_uid.c  
lib/gssapi/mechglue/mglueP.h  
lib/gssapi/mechglue/oid\_ops.c  
lib/gssapi/spnego/gssapiP\_spnego.h  
lib/gssapi/spnego/spnego\_mech.c

and the initial implementation of incremental propagation, including the following new or changed files:

.. parsed-literal::

include/iprop\_hdr.h  
kadmin/server/ipropd\_svc.c  
lib/kdb/iprop.x  
lib/kdb/kdb\_convert.c  
lib/kdb/kdb\_log.c  
lib/kdb/kdb\_log.h  
lib/krb5/error\_tables/kdb5\_err.et  
kprop/kpropd\_rpc.c  
kprop/kproplog.c

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"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
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  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />
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      VERSION: '1.17',
      COLLAPSE_INDEX: false,
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      HAS_SOURCE: true,
      SOURCELINK_SUFFIX: '.txt'
    };
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  accesskey="N">next</a> |
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        <div class="body" role="main">

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kerberos-license-information" title="Permalink to this headline"></a></h1>
<div class="toctree-wrapper compound">
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<div class="highlight-default"><div class="highlight"><pre><span></span><span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">generic</span><span class="o"></span><span class="n">gssapi\_err\_generic</span><span class="o"></span><span class="n">et</span>

<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_accept\_sec\_context</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_acquire\_cred</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_canon\_name</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_compare\_name</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_context\_time</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">g\_delete\_sec\_context</span><span class="o"></span><span class="n">c</span>  
<span class="n">lib</span><span class="o"></span><span class="n">gssapi</span><span class="o"></span><span class="n">mechglue</span><span class="o"></span><span class="n">







```
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">iprop</span><span class="o"></span><span class="n">x</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_convert</span><span class="o"></span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_log</span><span class="o"></span><span class="n">c</span>
<span class="n">lib</span><span class="o"></span><span class="n">kdb</span><span class="o"></span><span class="n">kdb_log</span><span class="o"></span><span class="n">h</span>
<span class="n">lib</span><span class="o"></span><span class="n">krb5</span><span class="o"></span><span class="n">error_tables</span><span class="o"></span><span class="n">kdb5_err</span><span class="o"></span><span class="n">et</span>
<span class="n">kprop</span><span class="o"></span><span class="n">kpropd_rpc</span><span class="o"></span><span class="n">c</span>
<span class="n">kprop</span><span class="o"></span><span class="n">kproplog</span><span class="o"></span><span class="n">c</span>
```

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  <input type="submit" value="Go" />
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    </div>
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lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech_gssapiP_spnego.h
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lib/krb5/kadm5/kadm_host_srv_names.c
```

lib/krb5/kdb/kdb\_convert.c  
lib/krb5/kdb/kdb\_hdr.h  
lib/krb5/kdb/kdb\_log.c  
lib/krb5/kdb/kdb\_log.h  
lib/libgss/g\_accept\_sec\_context.c  
lib/libgss/g\_acquire\_cred.c  
lib/libgss/g\_canon\_name.c  
lib/libgss/g\_compare\_name.c  
lib/libgss/g\_context\_time.c  
lib/libgss/g\_delete\_sec\_context.c  
lib/libgss/g\_dsp\_name.c  
lib/libgss/g\_dsp\_status.c  
lib/libgss/g\_dup\_name.c  
lib/libgss/g\_exp\_sec\_context.c  
lib/libgss/g\_export\_name.c  
lib/libgss/g\_glue.c  
lib/libgss/g\_imp\_name.c  
lib/libgss/g\_imp\_sec\_context.c  
lib/libgss/g\_init\_sec\_context.c  
lib/libgss/g\_initialize.c  
lib/libgss/g\_inquire\_context.c  
lib/libgss/g\_inquire\_cred.c  
lib/libgss/g\_inquire\_names.c  
lib/libgss/g\_process\_context.c  
lib/libgss/g\_rel\_buffer.c  
lib/libgss/g\_rel\_cred.c  
lib/libgss/g\_rel\_name.c  
lib/libgss/g\_rel\_oid\_set.c  
lib/libgss/g\_seal.c  
lib/libgss/g\_sign.c  
lib/libgss/g\_store\_cred.c  
lib/libgss/g\_unseal.c  
lib/libgss/g\_userok.c  
lib/libgss/g\_utils.c  
lib/libgss/g\_verify.c  
lib/libgss/gssd\_pname\_to\_uid.c  
uts/common/gssapi/include/gssapi\_err\_generic.h  
uts/common/gssapi/include/mechglueP.h

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```

# and license statements in source code comments.

import os
import sys
import re

def warn(fname, ln, msg):
    print '%s: %d: %s' % (fname, ln + 1, msg)

def indicates_license(line):
    return 'Copyright' in line or 'COPYRIGHT' in line or 'License' in line

# Check a comment for boilerplate violations. Return true if the comment
# is a license statement.
def check_comment(comment, fname, ln, code_seen, nonlicense_seen):
    text_seen = False
    is_license = False
    for line in comment:
        if not is_license and indicates_license(line):
            is_license = True
            if text_seen:
                warn(fname, ln, 'License begins after first line of comment')
            elif code_seen:
                warn(fname, ln, 'License after code')
            elif nonlicense_seen:
                warn(fname, ln, 'License after non-license comments')
            break
        # DB2 licenses start with '/*-' and we don't want to change them.
        if line != " and line != '-':
            text_seen = True
    return is_license

def check_file(lines, fname):
    # Skip emacs mode line if present.
    ln = 0
    if '-*- mode: c;' in lines[ln]:
        ln += 1

    # Check filename comment if present.
    m = re.match(r'^\* ([^ ]*)( - .*)? \*/', lines[ln])
    if m:
        if m.group(1) != fname:
            warn(fname, ln, 'Wrong filename in comment')
        ln += 1

    # Scan for license statements.
    in_comment = False
    code_seen = False

```

```

nonlicense_seen = False
for line in lines[ln:]:
    # Strip out whitespace and comments contained within a line.
    if not in_comment:
        line = re.sub(r'\s.*?\s*/', '', line)
        line = line.strip()

    if not in_comment and '/*' in line:
        (line, sep, comment_part) = line.partition('/*')
        comment = [comment_part.strip()]
        comment_starts_at = ln
        in_comment = True
    elif in_comment and '*/' not in line:
        comment.append(line.lstrip('*').rstrip())
    elif in_comment:
        (comment_part, sep, line) = line.partition('*/')
        comment.append(comment_part.strip())
        is_license = check_comment(comment, fname, comment_starts_at,
                                   code_seen, nonlicense_seen)
        nonlicense_seen = nonlicense_seen or not is_license
        in_comment = False
    elif line.strip() != "":
        code_seen = True

```

```

ln += 1

```

```

for fname in sys.argv[1:]:
    if fname.startswith('./'):
        fname = fname[2:]
    f = open(fname)
    lines = f.readlines()
    f.close()
    check_file(lines, fname)

```

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## 1.100 go-runtime 1.10.1

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Raul Silvera <rsilvera@google.com>

Tipp Moseley <tipp@google.com>

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Aaron France <aaron.l.france@gmail.com>  
Aaron Jacobs <jacobsa@google.com>  
Aaron Kemp <kemp.aaron@gmail.com>  
Aaron Torres <tcboox@gmail.com>  
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Abe Haskins <abeisgreat@abeisgreat.com>  
Abhinav Gupta <abhinav.g90@gmail.com>  
Adam Bender <abender@google.com>  
Adam Eijdenberg <adam@continusec.com>  
Adam Kisala <adam.kisala@gmail.com>  
Adam Langley <agl@golang.org>  
Adam Thomason <athomason@gmail.com>  
Aditya Mukerjee <dev@chimeracoder.net>  
Adrian Hesketh <adrianhesketh@hushmail.com>  
Adrian Nos <nos.adrian@gmail.com>  
Adrian O'Grady <elpollouk@gmail.com>  
Adrien Bustany <adrien-xx-google@bustany.org>  
Acio Jnior <aeciodantasjunior@gmail.com>  
Aeneas Rekkas (arekkas) <aeneas@ory.am>  
Afanasev Stanislav <phpprogger@gmail.com>  
Agis Anastasopoulos <agis.anast@gmail.com>  
Agniva De Sarker <agnivade@yahoo.co.in>  
Ahmed Waheed Moanes <oneofone@gmail.com>  
Ahmet Alp Balkan <ahmetb@google.com>  
Ahmy Yulrizka <yulrizka@gmail.com>  
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Ainar Garipov <gugl.zadolbal@gmail.com>  
Aishraj Dahal <aishraj@users.noreply.github.com>  
Akhil Indurti <contact@akhilindurti.com>  
Akihiro Suda <suda.kyoto@gmail.com>  
Akshat Kumar <seed@mail.nanosouffle.net>  
Alan Donovan <adonovan@google.com>  
Alan Shreve <alan@inconshreveable.com>  
Albert Nigmatzianov <albertnigma@gmail.com>  
Albert Strasheim <fullung@gmail.com>  
Albert Yu <yukinying@gmail.com>  
Alberto Bertogli <albertito@blitiri.com.ar>



Alberto Donizetti <alb.donizetti@gmail.com>  
Alberto Garca Hierro <alberto@garciahierro.com> <alberto.garcia.hierro@gmail.com>  
Aleksandar Dezelin <dezelin@gmail.com>  
Alessandro Arzilli <alessandro.arzilli@gmail.com>  
Alessandro Baffa <alessandro.baffa@gmail.com>  
Alex A Skinner <alex@lx.lc>  
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Alex Jin <toalexjin@gmail.com>  
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Alex Vaghin <crhyme@google.com>  
Alexander Demakin <alexander.demakin@gmail.com>  
Alexander Dring <email@alex.d.ch>  
Alexander Guz <kalimatas@gmail.com>  
Alexander Kauer <alexander@affine.space>  
Alexander Kucherenko <alxkchr@gmail.com>  
Alexander Larsson <alexander.larsson@gmail.com>  
Alexander Menzhinsky <amenzhinsky@gmail.com>  
Alexander Morozov <lk4d4math@gmail.com>  
Alexander Neumann <alexander@bumpen.de>  
Alexander Orlov <alexander.orlov@loxal.net>  
Alexander Pantyukhin <apantykhin@gmail.com>  
Alexander Polcyn <apolcyn@google.com>  
Alexander Reece <awreece@gmail.com>  
Alexander Surma <surma@surmair.de>  
Alexander Zhavnerchik <alex.vizor@gmail.com>  
Alexander Zolotov <goldifit@gmail.com>  
Alexandre Cesaro <alexandre.cesaro@gmail.com>  
Alexandre Fiori <fiorix@gmail.com>  
Alexandre Normand <alexandre.normand@gmail.com>  
Alexandre Parentea <aubonbeurre@gmail.com>  
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Alexey Borzenkov <snaury@gmail.com>  
Alexey Neganov <neganovalexey@gmail.com>  
Alexey Palazhchenko <alexey.palazhchenko@gmail.com>  
Alexis Hildebrandt <surryhill@gmail.com>  
Alexis Hunt <lexer@google.com>  
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Aliaksandr Valialkin <valyala@gmail.com>  
Alif Rachmawadi <subosito@gmail.com>  
Allan Simon <allan.simon@supinfo.com>  
Alok Menghrajani <alok.menghrajani@gmail.com>  
Aman Gupta <aman@tmm1.net>

Amir Mohammad Saied <amir@gluegadget.com>  
Amrut Joshi <amrut.joshi@gmail.com>  
Anand K. Mistry <anand@mistry.ninja>  
Anders Pearson <anders@columbia.edu>  
Andr Carvalho <asantostc@gmail.com>  
Andre Nathan <andrenth@gmail.com>  
Andrea Spadaccini <spadaccio@google.com>  
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Andreas Jellinghaus <andreas@ionisiert.de> <anj@google.com>  
Andreas Litt <andreas.litt@gmail.com>  
Andrei Korzhevskii <a.korzhevskiy@gmail.com>  
Andrei Vieru <euvieru@gmail.com>  
Andres Erbsen <andreser@google.com>  
Andrew Austin <andrewaact@gmail.com>  
Andrew Balholm <andybalholm@gmail.com>  
Andrew Benton <andrewmbenton@gmail.com>  
Andrew Bonventre <andybons@chromium.org>  
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Andrew Ekstedt <andrew.ekstedt@gmail.com>  
Andrew Etter <andrew.etter@gmail.com>  
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Anmol Sethi <anmol@aubble.com>

Anschel Schaffer-Cohen <anschelsc@gmail.com>  
Anthony Alves <cvballa3g0@gmail.com>  
Anthony Canino <anthony.canino1@gmail.com>  
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Apisak Darakananda <pongad@gmail.com>  
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Ariel Mashraki <ariel@mashraki.co.il>  
Arkadi Pyuro <arkadi@google.com>  
Arlo Breault <arlolra@gmail.com>  
Arnaud Ysmal <arnaud.ysmal@gmail.com>  
Arne Hormann <arnehormann@gmail.com>  
Arnout Engelen <arnout@bzzt.net>  
Aron Nopanen <aron.nopanen@gmail.com>  
Artyom Pervukhin <artyom.pervukhin@gmail.com>  
Arvinth Rajesh Tamilmani <art@a-30.net>  
Asim Shankar <asimshankar@gmail.com>  
Atin Malaviya <amalaviy@akamai.com>  
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Austin Clements <austin@google.com> <aclements@csail.mit.edu>  
awaw fumin <awawfumin@gmail.com>  
Awn Umar <awn@cryptolosophy.io>  
Axel Wagner <axel.wagner.hh@googlemail.com>  
Ayanamist Yang <ayanamist@gmail.com>  
Aymerick Jhanne <aymerick@jehanne.org>  
Baiju Muthukadan <baiju.m.mail@gmail.com>  
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Ben Olive <sionide21@gmail.com>  
Ben Schwartz <bemasc@google.com>  
Ben Shi <powerman1st@163.com>  
Benjamin Black <b@b3k.us>  
Benjamin Prosnitz <bprosnitz@google.com>  
Benjamin Wester <bwester@squareup.com>  
Benny Siegert <bsiegert@gmail.com>  
Benoit Sigoure <tsunanet@gmail.com>  
Berengar Lehr <Berengar.Lehr@gmx.de>  
Bill Neubauer <wcn@golang.org> <wcn@google.com> <bill.neubauer@gmail.com>  
Bill O'Farrell <billo@ca.ibm.com>  
Bill Prin <waprin@google.com>  
Bill Thiede <couchmoney@gmail.com>  
Billie Harold Cleek <bhcleek@gmail.com>  
Billy Lynch <wlynch@google.com>  
Bjorn Tillenius <bjorn@tillenius.me>  
Bjorn Tipling <bjorn.tipling@gmail.com>  
Blain Smith <rebelgeek@blainsmith.com>  
Blake Gentry <blakesgentry@gmail.com>  
Blake Mesdag <blakemesdag@gmail.com>  
Blake Mizerany <blake.mizerany@gmail.com>  
Blixt <me@blixt.nyc>  
Bobby Powers <bobbypowers@gmail.com>  
Boris Nagaev <nagaev@google.com>  
Borja Clemente <borja.clemente@gmail.com>  
Brad Burch <brad.burch@gmail.com>  
Brad Fitzpatrick <bradfitz@golang.org> <bradfitz@gmail.com>  
Brad Garcia <bgarcia@golang.org>  
Brad Jones <rbjones@google.com>  
Brad Whitaker <bwhitaker@fastly.com>  
Braden Bassingthwaite <bbassingthwaite@vendasta.com>  
Brady Catherman <brady@gmail.com>  
Brady Sullivan <brady@bsull.com>  
Brandon Bennett <bbennett@fb.com>  
Brandon Gilmore <varz@google.com>  
Brendan Daniel Tracey <tracey.brendan@gmail.com>  
Brendan O'Dea <bod@golang.org>  
Brett Cannon <bcannon@gmail.com>  
Brett Merrill <brett.j.merrill94@gmail.com>  
Brian Dellisanti <briandellisanti@gmail.com>  
Brian Downs <brian.downs@gmail.com>  
Brian G. Merrell <bgmerrell@gmail.com>  
Brian Gitonga Marete <marete@tosnix.com> <bgmarete@gmail.com> <bgm@google.com>  
Brian Kennedy <btkennedy@gmail.com>  
Brian Kessler <brian.m.kessler@gmail.com>  
Brian Ketelsen <bketelsen@gmail.com>  
Brian Slesinsky <skybrian@google.com>  
Brian Smith <ohohvi@gmail.com>

Brian Starke <brian.starke@gmail.com>  
Bryan Alexander <Kozical@msn.com>  
Bryan C. Mills <bcmills@google.com>  
Bryan Chan <bryan.chan@ca.ibm.com>  
Bryan Ford <brynosaurus@gmail.com>  
Bulat Gaifullin <gaifullinbf@gmail.com>  
Burak Guven <bguven@gmail.com>  
Caine Tighe <arctanofyourface@gmail.com>  
Caio Marcelo de Oliveira Filho <caio.oliveira@intel.com>  
Caleb Spare <cespare@gmail.com>  
Carl Chatfield <carlchatfield@gmail.com>  
Carl Henrik Lunde <chlunde@ifi.uio.no>  
Carl Jackson <carl@stripe.com>  
Carl Johnson <me@carlmjohnson.net>  
Carl Mastrangelo <notcarl@google.com>  
Carl Shapiro <cshapiro@google.com> <cshapiro@golang.org>  
Carlisia Campos <carlisia@grokkingtech.io>  
Carlo Alberto Ferraris <cafxx@strayorange.com>  
Carlos Castillo <cookieo9@gmail.com>  
Carlos Cirello <uldericofilho@gmail.com>  
Carlos Eduardo Seo <cseo@linux.vnet.ibm.com>  
Carolyn Van Slyck <me@carolynvanslyck.com>  
Cary Hull <chull@google.com>  
Case Nelson <case.nelson@gmail.com>  
Casey Marshall <casey.marshall@gmail.com>  
Catalin Nicutar <cnicutar@google.com>  
Catalin Patulea <catalinp@google.com>  
Cedric Staub <cs@squareup.com>  
Cezar S Espinola <cezarsa@gmail.com>  
ChaiShushan <chaishushan@gmail.com>  
Charles Fenwick Elliott <Charles@FenwickElliott.io>  
Charles L. Dorian <cldorian@gmail.com>  
Charles Lee <zombie.fml@gmail.com>  
Charles Weill <weill@google.com>  
Cherry Zhang <cherryyz@google.com>  
Chew Choon Keat <choonkeat@gmail.com>  
Cholerae Hu <choleraehyq@gmail.com>  
Chris Ball <chris@printf.net>  
Chris Biscardi <chris@christopherbiscardi.com>  
Chris Broadfoot <cbro@golang.org>  
Chris Dollin <ehog.hedge@gmail.com>  
Chris Farmiloe <chrisfarms@gmail.com>  
Chris Hines <chris.cs.guy@gmail.com>  
Chris Howey <howeyc@gmail.com>  
Chris Hundt <hundt@google.com>  
Chris Jones <chris@cjones.org> <chris.jones.yar@gmail.com>  
Chris Kastorff <encryptio@gmail.com>  
Chris Lennert <calennert@gmail.com>

Chris Manghane <cmang@golang.org>  
Chris McGee <sirnewton\_01@yahoo.ca> <newton688@gmail.com>  
Chris Raynor <raynor@google.com>  
Chris Roche <rodaine@gmail.com>  
Chris Stockton <chrisstocktonaz@gmail.com>  
Chris Zou <chriszou@ca.ibm.com>  
Christian Alexander <christian@linux.com>  
Christian Couder <chriscool@tuxfamily.org>  
Christian Himpel <chressie@googlemail.com> <chressie@gmail.com>  
Christine Hansmann <chhansmann@gmail.com>  
Christoffer Buchholz <christoffer.buchholz@gmail.com>  
Christoph Hack <christoph@tux21b.org>  
Christopher Cahoon <chris.cahoon@gmail.com>  
Christopher Guiney <chris@guiney.net>  
Christopher Henderson <chris@chenderson.org>  
Christopher Koch <chrisko@google.com>  
Christopher Nelson <nadiasvertex@gmail.com>  
Christopher Nielsen <m4dh4tt3r@gmail.com>  
Christopher Redden <christopher.redden@gmail.com>  
Christopher Swenson <cswenson@google.com>  
Christopher Wedgwood <cw@f00f.org>  
Christos Zoulas <christos@zoulas.com> <zoulasc@gmail.com>  
Christy Perez <christy@linux.vnet.ibm.com>  
CL Sung <clsung@gmail.com> <cl\_sung@htc.com>  
Clement Skau <clementskaug@gmail.com>  
Cody Oss <the.cody.oss@gmail.com>  
Colby Ranger <cranger@google.com>  
Colin Cross <ccross@android.com>  
Colin Edwards <colin@recursivepenguin.com>  
Colin Kennedy <moshen.colin@gmail.com>  
Conrad Irwin <conrad.irwin@gmail.com>  
Conrad Meyer <cemeyer@cs.washington.edu>  
Corey Thomasson <cthomas.lists@gmail.com>  
Cosmos Nicolaou <cnicolaou@google.com>  
Costin Chirvasuta <ctin@google.com>  
Cristian Staretu <unclejacksons@gmail.com>  
Cuihtlauac ALVARADO <cuihtlauac.alvarado@orange.com>  
Cyrill Schumacher <cyrill@schumacher.fm>  
Daisuke Fujita <dtanshi45@gmail.com>  
Daker Fernandes Pinheiro <daker.fernandes.pinheiro@intel.com>  
Damian Gryski <dgryski@gmail.com>  
Damien Lespiau <damien.lespiau@gmail.com> <damien.lespiau@intel.com>  
Damien Neil <dneil@google.com>  
Dan Ballard <dan@mindstab.net>  
Dan Caddigan <goldcaddy77@gmail.com>  
Dan Callahan <dan.callahan@gmail.com>  
Dan Harrington <harringtond@google.com>  
Dan Jacques <dnj@google.com>

Dan Peterson <dpiddy@gmail.com>  
Dan Pupius <dan@medium.com>  
Dan Sinclair <dan.sinclair@gmail.com>  
Daniel Fleischman <danielfleischman@gmail.com>  
Daniel Johansson <dajo2002@gmail.com>  
Daniel Kerwin <d.kerwin@gini.net>  
Daniel Krech <eikeon@eikeon.com>  
Daniel Lidn <daniel.liden.87@gmail.com>  
Daniel Mart <mvdan@mvdan.cc>  
Daniel Morsing <daniel.morsing@gmail.com>  
Daniel Nadasi <dnadasi@google.com>  
Daniel Ortiz Pereira da Silva <daniel.particular@gmail.com>  
Daniel Skinner <daniel@dasa.cc>  
Daniel Speichert <daniel@speichert.pl>  
Daniel Theophanes <kardianos@gmail.com>  
Daniel Upton <daniel@floppy.co>  
Daniela Petruzalek <daniela.petruzalek@gmail.com>  
Danny Rosseau <daniel.rosseau@gmail.com>  
Daria Kolistratova <daria.kolistratova@intel.com>  
Darren Elwood <darren@textnode.com>  
Datong Sun <dndx@idndx.com>  
Dave Borowitz <dborowitz@google.com>  
Dave Bort <dbort@golang.org>  
Dave Cheney <dave@cheney.net>  
Dave Day <djd@golang.org>  
Dave Grijalva <dgrijalva@ngmoco.com>  
Dave MacFarlane <driusan@gmail.com>  
David Anderson <danderson@google.com>  
David Barnett <dbarnett@google.com>  
David Benjamin <davidben@google.com>  
David Brophy <dave@brophy.uk>  
David Brgin <676c7473@gmail.com>  
David Calavera <david.calavera@gmail.com>  
David Chase <drchase@google.com>  
David Covert <davidhcovert@gmail.com>  
David Crawshaw <david.crawshaw@zentus.com> <crawshaw@google.com> <crawshaw@golang.org>  
David du Colombier <0intro@gmail.com>  
David Forsythe <dforsythe@gmail.com>  
David G. Andersen <dave.andersen@gmail.com>  
David Glasser <glasser@meteor.com>  
David Howden <dhowden@gmail.com>  
David Hubbard <dsp@google.com>  
David Jakob Fritz <david.jakob.fritz@gmail.com>  
David Lazar <lazard@golang.org>  
David Leon Gil <coruus@gmail.com>  
David McLeish <davemc@google.com>  
David NewHamlet <david@newhamlet.com>  
David Presotto <presotto@gmail.com>

David R. Jenni <david.r.jenni@gmail.com>  
David Sansome <me@davidsansome.com>  
David Stainton <dstainton415@gmail.com>  
David Symonds <dsymonds@golang.org>  
David Thomas <davidthomas426@gmail.com>  
David Titarenco <david.titarenco@gmail.com>  
David Volquartz Lebech <david@lebech.info>  
Davies Liu <davies.liu@gmail.com>  
Davor Kapsa <davor.kapsa@gmail.com>  
Dean Prichard <dean.prichard@gmail.com>  
Deepak Jois <deepak.jois@gmail.com>  
Denis Bernard <db047h@gmail.com>  
Denis Brandolini <denis.brandolini@gmail.com>  
Denis Nagorny <denis.nagorny@intel.com>  
Denys Honsiorovskiy <honsiorovskiy@gmail.com>  
Derek Buitenhuis <derek.buitenhuis@gmail.com>  
Derek Che <drc@yahoo-inc.com>  
Derek McGowan <derek@mcgstyle.net>  
Derek Parker <parkerderek86@gmail.com>  
Derek Shockey <derek.shockey@gmail.com>  
Devon H. O'Dell <devon.odell@gmail.com>  
Dhaivat Pandit <dhaivatpandit@gmail.com>  
Dhananjay Nakrani <dhananjayn@google.com>  
Dhiru Kholia <dhiru.kholia@gmail.com>  
Di Xiao <dixiao@google.com>  
Didier Spezia <didier.06@gmail.com>  
Dieter Plaetinck <dieter@raintank.io>  
Dimitri Tcaciuc <dtcaciuc@gmail.com>  
Dirk Gadsden <dirk@esherido.com>  
Diwaker Gupta <diwakergupta@gmail.com>  
Dmitri Popov <operator@cv.dp-net.com>  
Dmitri Shuralyov <shurcool@gmail.com>  
Dmitriy Dudkin <dudkin.dmitriy@gmail.com>  
Dmitriy Shelenin <deemok@googlemail.com> <deemok@gmail.com>  
Dmitriy Vyukov <dvyukov@google.com>  
Dmitry Chestnykh <dchest@gmail.com>  
Dmitry Savintsev <dsavints@gmail.com>  
Dmitry Yakunin <nonamezeil@gmail.com>  
Dominic Green <dominicgreen1@gmail.com>  
Dominik Honnef <dominik.honnef@gmail.com>  
Dominik Vogt <vogt@linux.vnet.ibm.com>  
Donald Huang <don.hcd@gmail.com>  
Dong-hee Na <donghee.na92@gmail.com>  
Donovan Hide <donovanhide@gmail.com>  
Doug Anderson <douga@google.com>  
Doug Fawley <dfawley@google.com>  
Drew Hintz <adhintz@google.com>  
Duncan Holm <mail@frou.org>



Dustin Carlino <dcarlino@google.com>  
Dustin Herbison <djherbis@gmail.com>  
Dustin Long <dustmop@gmail.com>  
Dustin Sallings <dsallings@gmail.com>  
Dustin Shields-Cloues <dcloues@gmail.com>  
Dvir Volk <dvir@everything.me> <dvirsky@gmail.com>  
Dylan Waits <dylan@waits.io>  
Edan Bedrik <3d4nb3@gmail.com>  
Eden Li <eden.li@gmail.com>  
Edward Muller <edwardam@interlix.com>  
Egon Elbre <egonelbre@gmail.com>  
Ehren Kret <ehren.kret@gmail.com>  
Eitan Adler <lists@eitanadler.com>  
Eivind Uggedal <eivind@uggedal.com>  
Elbert Fliek <efliek@gmail.com>  
Elena Grahovac <elena@grahovac.me>  
Elias Naur <elias.naur@gmail.com>  
Elliot Morrison-Reed <elliottmr@gmail.com>  
Emerson Lin <linyintor@gmail.com>  
Emil Hessman <c.emil.hessman@gmail.com> <emil@hessman.se>  
Emilien Kenler <hello@emilienkenler.com>  
Emmanuel Odeke <emm.odeke@gmail.com> <odeke@ualberta.ca>  
Eoghan Sherry <ejsherry@gmail.com>  
Eric Chiang <eric.chiang.m@gmail.com>  
Eric Clark <zerohp@gmail.com>  
Eric Engestrom <eric@engestrom.ch>  
Eric Garrido <ekg@google.com>  
Eric Koleda <ekoleda+devrel@google.com>  
Eric Lagergren <ericscottlagergren@gmail.com>  
Eric Milliken <emilliken@gmail.com>  
Eric Rescorla <ekr@rtfm.com>  
Eric Roshan-Eisner <eric.d.eisner@gmail.com>  
Erik Aigner <aigner.erik@gmail.com>  
Erik Dubbelboer <erik@dubbelboer.com>  
Erik St. Martin <alakriti@gmail.com>  
Erik Staab <estaab@google.com>  
Erik Westrup <erik.westrup@gmail.com>  
Ernest Chiang <ernest\_chiang@htc.com>  
Esko Luontola <esko.luontola@gmail.com>  
Ethan Burns <eaburns@google.com>  
Ethan Miller <eamiller@us.ibm.com>  
Euan Kemp <euank@euank.com>  
Evan Broder <evan@stripe.com>  
Evan Brown <evanbrown@google.com>  
Evan Hicks <evan.hicks2@gmail.com>  
Evan Jones <ej@evanjones.ca>  
Evan Kroske <evankroske@google.com>  
Evan Martin <evan.martin@gmail.com>

Evan Phoenix <evan@phx.io>  
Evan Shaw <chickencha@gmail.com>  
Evgeniy Polyakov <zbr@ioremap.net>  
Ewan Chou <coocood@gmail.com>  
Ewan Valentine <ewan.valentine89@gmail.com>  
Eyal Posener <posener@gmail.com>  
Fabian Wickborn <fabian@wickborn.net>  
Fabian Zaremba <fabian@youreemail.eu>  
Fabrizio Milo <mistobaan@gmail.com>  
Faiyaz Ahmed <ahmedf@vmware.com>  
Fan Hongjian <fan.howard@gmail.com>  
Fangming Fang <fangming.fang@arm.com>  
Fannie Zhang <fannie.zhang@arm.com>  
Fatih Arslan <fatih@arslan.io>  
Fazal Majid <majid@apsalar.com>  
Fazlul Shahriar <fshahriar@gmail.com>  
Federico Simoncelli <fsimonce@redhat.com>  
Fedor Indutny <fedor@indutny.com>  
Felipe Oliveira <felipeweb.programador@gmail.com>  
Felix Geisendrfer <haimuiba@gmail.com>  
Filip Gruszczyski <gruszczzy@gmail.com>  
Filippo Valsorda <filippo@cloudflare.com> <hi@filippo.io>  
Firmansyah Adiputra <frm.adiputra@gmail.com>  
Florian Uekermann <florian@uekermann-online.de> <f1@uekermann-online.de>  
Florian Weimer <fw@deneb.enyo.de>  
Florin Patan <florinpatan@gmail.com>  
Folke Behrens <folke@google.com>  
Ford Hurley <ford.hurley@gmail.com>  
Francesc Campoy <campoy@golang.org>  
Francisco Claude <fclaude@recoded.cl>  
Francisco Rojas <francisco.rojas.gallegos@gmail.com>  
Francisco Souza <franciscossouza@gmail.com>  
Frank Somers <fsomers@arista.com>  
Frederic Guillot <frederic.guillot@gmail.com>  
Frederick Kelly Mayle III <frederickmayle@gmail.com>  
Fredrik Enestad <fredrik.enestad@soundtrackyourbrand.com>  
Fredrik Forsmo <fredrik.forsmo@gmail.com>  
Frithjof Schulze <schulze@math.uni-hannover.de> <sfrithjof@gmail.com>  
Frits van Bommel <fvbommel@gmail.com>  
Fumitoshi Ukai <ukai@google.com>  
Gaal Yahas <gaal@google.com>  
Gabrel Arthr Ptursson <gabriel@system.is>  
Gabriel Aszalos <gabriel.aszalos@gmail.com>  
Gabriel Nicolas Avellaneda <avellaneda.gabriel@gmail.com>  
Gabriel Russell <gabriel.russell@gmail.com>  
Gareth Paul Jones <gpj@foursquare.com>  
Garret Kelly <gdk@google.com>  
Garrick Evans <garrick@google.com>

Gary Burd <gary@beagledreams.com> <gary.burd@gmail.com>  
Gary Elliott <garyelliott@google.com>  
Gaurish Sharma <contact@aurishsharma.com>  
Gautham Thambidorai <gautham.dorai@gmail.com>  
Geert-Johan Riemer <gjr19912@gmail.com>  
Gengliang Wang <ltnwgl@gmail.com>  
Geoff Berry <gberry.qdt@qualcommdatacenter.com>  
Geoffroy Lorieux <lorieux.g@gmail.com>  
Georg Reinke <guelfey@gmail.com>  
George Gkirtsou <ggirtsou@gmail.com>  
George Shammas <george@shamm.as> <georgyo@gmail.com>  
Gerasimos Dimitriadis <gedimitr@gmail.com>  
Gideon Jan-Wessel Redelinghuys <gjredelinghuys@gmail.com>  
Giles Lean <giles.lean@pobox.com>  
Giovanni Bajo <rasky@develer.com>  
Giulio Iotti <dullgiulio@gmail.com>  
Gleb Stepanov <glebstepanov1992@gmail.com>  
Glenn Brown <glennb@google.com>  
Glenn Lewis <gmlewis@google.com>  
Gordon Klaus <gordon.klaus@gmail.com>  
Graham King <graham4king@gmail.com>  
Graham Miller <graham.miller@gmail.com>  
Grant Griffiths <ggp493@gmail.com>  
Greg Poirier <greg.istehbest@gmail.com>  
Greg Ward <greg@gerg.ca>  
Gregory Man <man.gregory@gmail.com>  
Guilherme Garnier <guilherme.garnier@gmail.com>  
Guilherme Rezende <guilhermebr@gmail.com>  
Guillaume J. Charmes <guillaume@charmes.net>  
Guobiao Mei <meiguobiao@gmail.com>  
Gustav Paul <gustav.paul@gmail.com>  
Gustav Westling <gustav@westling.xyz>  
Gustavo Franco <gustavorfranco@gmail.com>  
Gustavo Niemeyer <gustavo@niemeyer.net> <n13m3y3r@gmail.com>  
Gwenael Treguier <gwenn.kahz@gmail.com>  
Gyu-Ho Lee <gyuhox@gmail.com>  
H. brahim Gngr <igungor@gmail.com>  
Hajime Hoshi <hajimehoshi@gmail.com>  
Hallgrimur Gunnarsson <halg@google.com>  
Han-Wen Nienhuys <hanwen@google.com>  
Hang Qian <hangqian90@gmail.com>  
Hanjun Kim <hallazzang@gmail.com>  
Hari haran <hariharan.uno@gmail.com>  
Hariharan Srinath <srinathh@gmail.com>  
Harley Laue <losinggeneration@gmail.com>  
Harry Moreno <morenoh149@gmail.com>  
Harshavardhana <hrshvardhana@gmail.com>  
Hauke Lffler <hloeffler@users.noreply.github.com>

Hvard Haugen <havard.haugen@gmail.com>  
Hector Chu <hectorchu@gmail.com>  
Hector Martin Cantero <hector@marcansoft.com>  
Henning Schmiedehausen <henning@schmiedehausen.org>  
Henrik Edwards <henrik.edwards@gmail.com>  
Henrik Hodne <henrik@hodne.io>  
Henry Adi Sumarto <henry.adisumarto@gmail.com>  
Henry Bubert <google@mindeco.de>  
Henry Chang <mr.changyuheng@gmail.com>  
Herbert Georg Fischer <herbert.fischer@gmail.com>  
Herbie Ong <herbie@google.com>  
Heschi Kreinick <heschi@google.com>  
Hilko Bengen <bengen@hilluzination.de>  
Hiroaki Nakamura <hnakamur@gmail.com>  
Hironao OTSUBO <motemen@gmail.com>  
Hiroshi Ioka <hirochachacha@gmail.com>  
Hitoshi Mitake <mitake.hitoshi@gmail.com>  
Holden Huang <ttyh061@gmail.com>  
Hong Ruiqi <hongruiqi@gmail.com>  
Hongfei Tan <feilengcui008@gmail.com>  
Hossein Sheikh Attar <hattar@google.com>  
Hsin Tsao <tsao@google.com>  
Hsin-Ho Yeh <yhh92u@gmail.com>  
Hu Keping <hukeping@huawei.com>  
Hugues Bruant <hugues.bruant@gmail.com>  
Hyang-Ah Hana Kim <hakim@google.com> <hyangah@gmail.com>  
Ian Gudger <ian@loosescre.ws>  
Ian Kent <iankent85@gmail.com>  
Ian Lance Taylor <iant@golang.org>  
Ibrahim AshShohail <ibra.sho@gmail.com>  
Icarus Sparry <golang@icarus.freeuk.com>  
Iccha Sethi <icchasethi@gmail.com>  
Idora Shinatose <idora.shinatose@gmail.com>  
Igor Bernstein <igorbernstein@google.com>  
Igor Dolzhikov <bluesriverz@gmail.com>  
Igor Vashyst <ivashyst@gmail.com>  
Ilya Tocar <ilya.tocar@intel.com>  
INADA Naoki <songofacandy@gmail.com>  
Inanc Gumus <m@inanc.io>  
Ingo Krabbe <ikrabbe.ask@gmail.com>  
Ingo Oeser <nightlyone@googlemail.com> <nightlyone@gmail.com>  
Irieda Noboru <irieda@gmail.com>  
Isaac Wagner <ibw@isaacwagner.me>  
Iskander Sharipov <iskander.sharipov@intel.com>  
Ivan Babrou <ivan@cloudflare.com>  
Ivan Bertona <ivan.bertona@gmail.com>  
Ivan Krasin <krasin@golang.org>  
Ivan Moscoso <moscoso@gmail.com>

Ivan Ukhov <ivan.ukhov@gmail.com>  
Jaana Burcu Dogan <jbd@google.com> <jbd@golang.org> <burcujdogan@gmail.com>  
Jack Lindamood <jlindamo@justin.tv>  
Jacob Baskin <jbaskin@google.com>  
Jacob H. Haven <jacob@cloudflare.com>  
Jacob Hoffman-Andrews <github@hoffman-andrews.com>  
Jae Kwon <jae@tendermint.com>  
Jakob Borg <jakob@nym.se>  
Jakub ajka <jcajka@redhat.com>  
Jakub Ryszard Czarnowicz <j.czarnowicz@gmail.com>  
James Aguilar <jaguilar@google.com>  
James Bardin <j.bardin@gmail.com>  
James Chacon <jchacon@google.com>  
James Clarke <jrtc27@jrtc27.com>  
James Cowgill <James.Cowgill@imgtec.com>  
James David Chalfant <james.chalfant@gmail.com>  
James Fysh <james.fysh@gmail.com>  
James Gray <james@james4k.com>  
James Hartig <fastest963@gmail.com>  
James Lawrence <jljatone@gmail.com>  
James Meneghello <rawrz0r@gmail.com>  
James Myers <jfmyers9@gmail.com>  
James Neve <jamesoneve@gmail.com>  
James P. Cooper <jamespcooper@gmail.com>  
James Robinson <jamesr@google.com> <jamesr.gatech@gmail.com>  
James Schofield <james@shooboxapp.com>  
James Smith <jrs1995@icloud.com>  
James Sweet <james.sweet88@googlemail.com>  
James Toy <nil@opensesame.st>  
James Treanor <jtreanor3@gmail.com>  
James Tucker <raggi@google.com>  
James Whitehead <jnwhiteh@gmail.com>  
Jamie Beverly <jamie.r.beverly@gmail.com>  
Jamie Gennis <jgennis@google.com> <jgennis@gmail.com>  
Jamie Kerr <jkerr113@googlemail.com>  
Jamie Liu <jamieliu@google.com>  
Jamie Stackhouse <contin673@gmail.com>  
Jamie Turner <jamwt@dropbox.com>  
Jamie Wilkinson <jaq@spacepants.org>  
Jamil Djadala <djadala@gmail.com>  
Jan Berktold <jan@berktold.co>  
Jan H. Hosang <jan.hosang@gmail.com>  
Jan Kratochvil <jan.kratochvil@redhat.com>  
Jan Mercl <0xjnm@gmail.com> <befelemepeseveze@gmail.com>  
Jan Newmarch <jan.newmarch@gmail.com>  
Jan Ziak <0xe2.0x9a.0x9b@gmail.com>  
Jani Monoses <jani.monoses@ubuntu.com> <jani.monoses@gmail.com>  
Jared Culp <jculp14@gmail.com>

Jaroslavas Poepko <jp@webmaster.ms>  
Jason Barnett <jason.w.barnett@gmail.com>  
Jason Buberel <jbuberel@google.com>  
Jason Chu <jasonchujc@gmail.com>  
Jason Del Ponte <delpontej@gmail.com>  
Jason Hall <jasonhall@google.com>  
Jason Smale <jsmale@zendesk.com>  
Jason Travis <infomaniac7@gmail.com>  
Jason Wangsadinata <jwangsadinata@gmail.com>  
Javier Segura <javism@gmail.com>  
Jay Conrod <jayconrod@google.com>  
Jay Weisskopf <jay@jayschwa.net>  
Jean-Francois Cantin <jfcantin@gmail.com>  
Jean-Marc Eurin <jmeurin@google.com>  
Jean-Nicolas Moal <jn.moal@gmail.com>  
Jed Denlea <jed@fastly.com>  
Jeet Parekh <jeetparekh96@gmail.com>  
Jeff (Zhefu) Jiang <jeffjiang@google.com>  
Jeff Craig <jeffcraig@google.com>  
Jeff Hodges <jeff@somethingsimilar.com>  
Jeff Johnson <jrjohnson@google.com>  
Jeff R. Allen <jra@nella.org> <jeff.allen@gmail.com>  
Jeff Sickel <jas@corpus-callosum.com>  
Jeff Wendling <jeff@spacemonkey.com>  
Jeffrey H <jeffreyh192@gmail.com>  
Jelte Fennema <github-tech@jeltef.nl>  
Jens Frederich <jfrederich@gmail.com>  
Jeremiah Harmsen <jeremiah@google.com>  
Jeremy Jackins <jeremyjackins@gmail.com>  
Jeremy Schlatter <jeremy.schlatter@gmail.com>  
Jeroen Bobbeldijk <jerbob92@gmail.com>  
Jess Frazelle <me@jessfraz.com>  
Jesse Szwedko <jesse.szwedko@gmail.com>  
Jianing Yu <jnyu@google.com>  
Jianqiao Li <jianqiaoli@google.com>  
Jihyun Yu <yjh0502@gmail.com>  
Jim Cote <jfcote87@gmail.com>  
Jim Kingdon <jim@bolt.me>  
Jim McGrath <jimmc2@gmail.com>  
Jimmy Frasche <soapboxcicero@gmail.com>  
Jimmy Zelinskie <jimmyzelinskie@gmail.com>  
Jin-wook Jeong <jeweljar@hanmail.net>  
Jingcheng Zhang <diogin@gmail.com>  
Jingguo Yao <yaojingguo@gmail.com>  
Jiong Du <londevil@gmail.com>  
Jirka Dank <dnk@mail.muni.cz>  
Jiulong Wang <jjiulongw@gmail.com>  
Joakim Sernbrant <serbaut@gmail.com>

Joe Farrell <joe2farrell@gmail.com>  
Joe Harrison <joehazzers@gmail.com>  
Joe Henke <joed.henke@gmail.com>  
Joe Kyo <xunianzu@gmail.com>  
Joe Poirier <jdpoirier@gmail.com>  
Joe Richey joerichey@google.com <joerichey@google.com>  
Joe Shaw <joe@joeshaw.org>  
Joe Sylve <joe.sylve@gmail.com>  
Joe Tsai <joetsai@digital-static.net>  
Joel Sing <jsing@google.com>  
Jol Stemmer <jstemmer@google.com>  
Joel Stemmer <stemmertech@gmail.com>  
Joey Geiger <jgeiger@users.noreply.github.com>  
Johan Brandhorst <johan.brandhorst@gmail.com>  
Johan Euphrosine <proppy@google.com>  
Johan Sageryd <j@1616.se>  
John Asmuth <jasmuth@gmail.com>  
John Beisley <huin@google.com>  
John C Barstow <jbowtie@amathaine.com>  
John DeNero <denero@google.com>  
John Dethridge <jcd@golang.org>  
John Graham-Cumming <jgc@jgc.org> <jgrahamc@gmail.com>  
John Howard Palevich <jack.palevich@gmail.com>  
John Jeffery <jjeffery@sp.com.au>  
John Jenkins <twodopeshaggy@gmail.com>  
John Newlin <jnewlin@google.com>  
John Potocny <johnp@vividcortex.com>  
John R. Lenton <jlenton@gmail.com>  
John Schnake <schnake.john@gmail.com>  
John Shahid <jvshahid@gmail.com>  
John Tuley <john@tuley.org>  
Johnny Luo <johnnyluo1980@gmail.com>  
Jon Chen <jchen@justin.tv>  
Jonathan Allie <jonallie@google.com>  
Jonathan Amsterdam <jba@google.com>  
Jonathan Boulle <jonathanboulle@gmail.com>  
Jonathan Feinberg <feinberg@google.com>  
Jonathan Gold <jgold.bg@gmail.com>  
Jonathan Hseu <jhseu@google.com>  
Jonathan Mark <jhmark@xenops.com> <jhmark000@gmail.com>  
Jonathan Nieder <jrn@google.com>  
Jonathan Pittman <jmpittman@google.com> <jonathan.mark.pittman@gmail.com>  
Jonathan Rudenberg <jonathan@titanous.com>  
Jonathan Stacks <jonstacks13@gmail.com>  
Jonathan Wills <runningwild@gmail.com>  
Jongmin Kim <atomaths@gmail.com>  
Joonas Kuorilehto <joneskoo@derbian.fi>  
Joop Kiefte <ikojba@gmail.com> <joop@kiefte.net>

Jordan Krage <jmank88@gmail.com>  
Jordan Lewis <jordanthelewis@gmail.com>  
Jos Visser <josv@google.com>  
Jose Luis Vzquez Gonzlez <josvazg@gmail.com>  
Joseph Bonneau <jcb@google.com>  
Joseph Holsten <joseph@josephholsten.com>  
Josh Bleecher Snyder <josharian@gmail.com>  
Josh Chorlton <jchorlton@gmail.com>  
Josh Deprez <josh.deprez@gmail.com>  
Josh Goebel <dreamer3@gmail.com>  
Josh Hoak <jhoak@google.com>  
Josh Holland <jrh@joshh.co.uk>  
Josh Roppo <joshroppo@gmail.com>  
Joshua Boelter <joshua.boelter@intel.com>  
Joshua Chase <jcjosuachase@gmail.com>  
Joshua Rubin <joshua@rubixconsulting.com>  
Josselin Costanzi <josselin@costanzi.fr>  
Jostein Stuhaug <js@solidsystem.no>  
JP Sugarbroad <jpsugar@google.com>  
JT Olds <jtolds@xnet5.com>  
Juan Carlos <juanjcsr@gmail.com>  
Jude Pereira <judebpereira@gmail.com>  
Jukka-Pekka Kekkonen <karatepekka@gmail.com>  
Julia Hansbrough <flowerhack@google.com>  
Julian Kornberger <jk+github@digineo.de>  
Julian Pastarmov <pastarmovj@google.com>  
Julian Phillips <julian@quantumfyre.co.uk>  
Julien Schmidt <google@julienschmidt.com>  
Julio Montes <julio.montes@intel.com>  
Jungho Ahn <jhahn@google.com>  
Junya Hayashi <ledmonster@gmail.com>  
Jure Ham <jure.ham@zemanta.com>  
Justin Nu <nuss.justin@gmail.com>  
Justyn Temme <justyntemme@gmail.com>  
Kai Backman <kaib@golang.org>  
Kai Trukenmller <ktye78@gmail.com>  
Kale Blankenship <kale@lemnisis.com>  
Kaleb Elwert <kelwert@atlassian.com>  
Kamal Aboul-Hosn <aboulhosn@google.com>  
Kamil Chmielewski <kamil.chm@gmail.com>  
Kamil Kisiel <kamil@kamilkisiel.net> <kamil.kisiel@gmail.com>  
Kang Hu <hukangustc@gmail.com>  
Karan Dhiman <karandhi@ca.ibm.com>  
Karel Pazdera <pazderak@gmail.com>  
Karoly Negyesi <chx1975@gmail.com>  
Karsten Khler <karsten.koehler95@gmail.com>  
Kashav Madan <kshvmdn@gmail.com>  
Kate Manson <kate.manson@izettle.com>



Kato Kazuyoshi <kato.kazuyoshi@gmail.com>  
Katrina Owen <katrina.owen@gmail.com>  
Kaviraj Kanagaraj <kavirajkanagaraj@gmail.com>  
Kay Zhu <kayzhu@google.com>  
KB Sriram <kbsriram@google.com>  
Keegan Carruthers-Smith <keegan.csmith@gmail.com>  
Kei Son <hey.calmdown@gmail.com>  
Keiji Yoshida <keijiyoshida.mail@gmail.com>  
Keith Ball <inflatablewoman@gmail.com>  
Keith Randall <khr@golang.org>  
Keith Rarick <kr@xph.us>  
Kelsey Hightower <kelsey.hightower@gmail.com>  
Kelvin Foo Chuan Lyi <vmirage@gmail.com>  
Ken Friedenbach <kenliz@cruzio.com>  
Ken Rockot <ken@oz.gs> <ken.rockot@gmail.com>  
Ken Sedgwick <ken@bonsai.com>  
Ken Thompson <ken@golang.org>  
Kenji Kaneda <kenji.kaneda@gmail.com>  
Kenji Yano <kenji.yano@gmail.com>  
Kenneth Shaw <kenshaw@gmail.com>  
Kenny Grant <kennygrant@gmail.com>  
Kevin Ballard <kevin@sb.org>  
Kevin Burke <kev@inburke.com>  
Kevin Kirsche <kev.kirsche@gmail.com>  
Kevin Klues <klueska@gmail.com> <klueska@google.com>  
Kevin Malachowski <chowski@google.com>  
Kevin Ruffin <kruffin@gmail.com>  
Kevin Vu <kevin.m.vu@gmail.com>  
Kieran Colford <kieran@kcolford.com>  
Kim Shrier <kshrier@racktopsystems.com>  
Kim Yongbin <kybinz@gmail.com>  
Kirill Smelkov <kirr@nexedi.com>  
Kirk Han <kirk91.han@gmail.com>  
Kirklin McDonald <kirklin.mcdonald@gmail.com>  
Klaus Post <klauspost@gmail.com>  
Kodie Goodwin <kodiegoodwin@gmail.com>  
Koichi Shiraishi <zchee.io@gmail.com>  
Koki Ide <niconegoto@yahoo.co.jp>  
Konstantin <konstantin8105@gmail.com>  
Konstantin Shaposhnikov <k.shaposhnikov@gmail.com>  
Kris Nova <kris@nivenly.com>  
Kris Rousey <krousey@google.com>  
Kristopher Watts <traetox@gmail.com>  
Kun Li <likunarmstrong@gmail.com>  
Kunpei Sakai <namusyaka@gmail.com>  
Kyle Consalus <consalus@gmail.com>  
Kyle Isom <kyle@gokyle.net>  
Kyle Jones <kyle@kyledj.com>

Kyle Lemons <kyle@kylelemons.net> <kevlar@google.com>  
Kyle Shannon <kyle@pobox.com>  
Kyohei Kadota <lufia@lufia.org>  
Kyrylo Silin <silin@kyrylo.org>  
L Campbell <unpansu@gmail.com>  
Lai Jiangshan <eag0628@gmail.com>  
Lakshay Garg <lakshay.garg.1996@gmail.com>  
Lann Martin <lanm@google.com>  
Larry Hosken <lahosken@golang.org>  
Lars Jeppesen <jeppesen.lars@gmail.com>  
Lars Wiegman <lars@namsral.com>  
Larz Conwell <larzconwell@gmail.com>  
Laurent Voisin <lpvoisin@gmail.com>  
Laurie Clark-Michalek <laurie@qubit.com>  
LE Manh Cuong <cuong.manhle.vn@gmail.com>  
Lee Hinman <hinman@gmail.com>  
Lee Packham <lpackham@gmail.com>  
Leigh McCulloch <leighmcc@gmail.com>  
Leo Rudberg <ljr@google.com>  
Leon Klingele <git@leonklingele.de>  
Lev Shamardin <shamardin@gmail.com>  
Lewin Bormann <lewin.bormann@gmail.com>  
Lion Yang <lion@aosc.xyz>  
Lloyd Dewolf <foolswisdom@gmail.com>  
Lorenz Bauer <lmb@cloudflare.com>  
Lorenzo Masini <rugginoso@develer.com>  
Lorenzo Stoakes <lstoakes@gmail.com>  
Louis Kruger <louisk@google.com>  
Luan Santos <cfcluan@gmail.com>  
Luca Bruno <luca.bruno@coreos.com>  
Luca Greco <luca.greco@alcacoop.it>  
Lucas Bremgartner <lucas.bremgartner@gmail.com>  
Lucas Clemente <lclemente@google.com>  
Lucien Stuker <lucien.stuker@gmail.com>  
Lucio De Re <lucio.dere@gmail.com>  
Ludi Rehak <ludi317@gmail.com>  
Luigi Riefolo <luigi.riefolo@gmail.com>  
Luit van Drongelen <luitvd@gmail.com>  
Luka Zakrajek <tr00.g33k@gmail.com>  
Lukasz Milewski <lmmilewski@gmail.com>  
Luke Curley <qpingu@gmail.com>  
Luke Granger-Brown <git@lukegb.com>  
Luna Duclos <luna.duclos@palmstonegames.com>  
Luuk van Dijk <lvd@golang.org> <lvd@google.com>  
Lyle Franklin <lylejfranklin@gmail.com>  
Lynn Boger <laboger@linux.vnet.ibm.com>  
Ma Peiqi <mapeiqi2017@gmail.com>  
Magnus Hiie <magnus.hiie@gmail.com>

Maicon Costa <maiconscosta@gmail.com>  
Maksym Trykur <maksym.trykur@gmail.com>  
Mal Curtis <mal@mal.co.nz>  
Manfred Touron <m@42.am>  
Manish Goregaokar <manishsmail@gmail.com>  
Manoj Dayaram <platform-dev@moovweb.com> <manoj.dayaram@moovweb.com>  
Mansour Rahimi <rahimi.mnr@gmail.com>  
Manu Garg <manugarg@google.com>  
Manu S Ajith <neo@codingarena.in>  
Manuel Mendez <mmendez534@gmail.com>  
Marc Weistroff <marc@weistroff.net>  
Marc-Antoine Ruel <maruel@chromium.org>  
Marcel Edmund Franke <marcel.edmund.franke@gmail.com>  
Marcel van Lohuizen <mpvl@golang.org>  
Marcelo E. Magallon <marcelo.magallon@gmail.com>  
Marco Hennings <marco.hennings@freiheit.com>  
Marga Manterola <marga@google.com>  
Marin Bai <marin.basic02@gmail.com>  
Marius Nuennerich <mnu@google.com>  
Mark Adams <mark@markadams.me>  
Mark Bucciarelli <mkbucc@gmail.com>  
Mark Harrison <marhar@google.com>  
Mark Percival <m@mdp.im>  
Mark Pulford <mark@kyne.com.au>  
Mark Ryan <mark.d.ryan@intel.com>  
Mark Severson <miquella@gmail.com>  
Mark Theunissen <mark.theunissen@gmail.com>  
Mark Wolfe <mark@wolfe.id.au>  
Mark Zavislak <zavislak@google.com>  
Marko Juhani Silokunnas <marko.silokunnas@gmail.com>  
Marko Mikulicic <mkm@google.com>  
Marko Mudrinic <mudrinic.mare@gmail.com>  
Marko Tiikkaja <marko@joh.to>  
Markus Duft <markus.duft@salomon.at>  
Markus Sonderegger <marraison@gmail.com>  
Markus Zimmermann <zimmski@gmail.com>  
Martin Bertschler <mbertschler@gmail.com>  
Martin Garton <garton@gmail.com>  
Martin Habbecke <marhab@google.com>  
Martin Hamrle <martin.hamrle@gmail.com>  
Martin Hoefling <martin.hoefling@gmx.de>  
Martin Kreichgauer <martinkr@google.com>  
Martin Lindhe <martin.j.lindhe@gmail.com>  
Martin Mohrmann <moehrmann@google.com> <martisch@uos.de>  
Martin Neubauer <m.ne@gmx.net>  
Martin Olsen <github.com@martinolsen.net>  
Martin Olsson <martin@minimum.se>  
Martin Probst <martin@probst.io>

Martins Sipenko <martins.sipenko@gmail.com>  
Martynas Budrinas <mabu@google.com>  
Marvin Stenger <marvin.stenger94@gmail.com>  
Marwan Sulaiman <marwan.sulaiman@work.co>  
Maryan Hratson <gmarik@gmail.com>  
Masahiro Furudate <masahiro.furudate@gmail.com>  
Masahiro Wakame <vvakame@gmail.com>  
Masaki Yoshida <yoshida.masaki@gmail.com>  
Mat Byczkowski <mbyczkowski@gmail.com>  
Mt Gulys <mgulyas86@gmail.com>  
Matej Bao <matejbaco@gmail.com>  
Mateus Amin <mateus.amin@gmail.com>  
Mateusz Czapliski <czapkofan@gmail.com>  
Mathias Beke <git@denbeke.be>  
Mathias Hall-Andersen <mathias@hall-andersen.dk>  
Mathias Leppich <mleppich@muhqu.de>  
Mathieu Lonjaret <mathieu.lonjaret@gmail.com>  
Mats Lidell <mats.lidell@cag.se> <mats.lidell@gmail.com>  
Matt Aimonetti <mattaimonetti@gmail.com>  
Matt Blair <me@matthewblair.net>  
Matt Bostock <matt@mattbostock.com>  
Matt Brown <mbrown@google.com>  
Matt Dee <mdee@hioscar.com>  
Matt Drollette <matt@drollette.com>  
Matt Harden <matt.harden@gmail.com>  
Matt Jibson <matt.jibson@gmail.com>  
Matt Joiner <anacrolix@gmail.com>  
Matt Jones <mrjones@google.com>  
Matt Layher <mdlayher@gmail.com>  
Matt Reiferson <mreiferson@gmail.com>  
Matt Robenolt <matt@ydekproductions.com>  
Matt Strong <mstrong1341@gmail.com>  
Matt T. Proud <matt.proud@gmail.com>  
Matt Williams <gh@mattyw.net> <mattyjwilliams@gmail.com>  
Matthew Brennan <matty.brennan@gmail.com>  
Matthew Broberg <matthewbbroberg@gmail.com>  
Matthew Cottingham <mattcottingham@gmail.com>  
Matthew Dempsky <mdempsky@google.com>  
Matthew Denton <mdenton@skyportsystems.com>  
Matthew Holt <Matthew.Holt+git@gmail.com>  
Matthew Horsnell <matthew.horsnell@gmail.com>  
Matthieu Hauglustaine <matt.hauglustaine@gmail.com>  
Matthieu Olivier <olivier.matthieu@gmail.com>  
Matthijs Kooijman <matthijs@stdin.nl>  
Max Riveiro <kavu13@gmail.com>  
Max Schmitt <max@schmitt.mx>  
Maxim Khitrov <max@mxcrypt.com>  
Maxim Pimenov <mpimenov@google.com>

Maxim Ushakov <ushakov@google.com>  
Maxime de Roucy <maxime.deroucy@gmail.com>  
Mximo Cuadros Ortiz <mcuadros@gmail.com>  
Maxwell Krohn <themax@gmail.com>  
Mayank Kumar <krmayankk@gmail.com>  
Meir Fischer <meirfischer@gmail.com>  
Meng Zhuo <mengzhuo1203@gmail.com>  
Mhd Sulhan <m.shulhan@gmail.com>  
Micah Stetson <micah.stetson@gmail.com>  
Michael Brandenburg <mbrandenburg@bolste.com>  
Michael Chaten <mchaten@gmail.com>  
Michael Darakananda <pongad@google.com>  
Michael Edwards <medwards@walledcity.ca>  
Michael Elkins <michael.elkins@gmail.com>  
Michael Fraenkel <michael.fraenkel@gmail.com>  
Michael Gehring <mg@ebfe.org> <gnirheg.leahcim@gmail.com>  
Michael Hendricks <michael@ndrix.org>  
Michael Hoisie <hoisie@gmail.com>  
Michael Hudson-Doyle <michael.hudson@linaro.org>  
Michael Kufel <golang@c.michael-kaeufl.de>  
Michael Kelly <mjk@google.com>  
Michael Lewis <mikelikespie@gmail.com>  
Michael MacInnis <Michael.P.MacInnis@gmail.com>  
Michael Marineau <michael.marineau@coreos.com>  
Michael Matloob <matloob@google.com>  
Michael McConville <momconville@gmail.com>  
Michael McGreevy <mcgreevy@golang.org>  
Michael McLoughlin <mmcloughlin@gmail.com>  
Michael Munday <munday@ca.ibm.com>  
Michael Pearson <mipearson@gmail.com>  
Michael Piatek <piatek@google.com>  
Michael Pratt <mpratt@google.com>  
Michael Schaller <michael@5challer.de>  
Michael Schurter <michael.schurter@gmail.com>  
Michael Shields <mshields@google.com>  
Michael Stapelberg <michael@stapelberg.de> <mstplbrg@googlemail.com>  
Michael Steinert <mike.steinert@gmail.com>  
Michael T. Jones <mtj@google.com> <michael.jones@gmail.com>  
Michael Teichgraber <mteichgraber@gmx.de> <mt4swm@googlemail.com>  
Michael Vetter <g.bluehut@gmail.com>  
Michal Bohuslvek <mbohuslvek@gmail.com>  
Michal Cierniak <cierniak@google.com>  
Micha Derkacz <ziutek@inet.pl>  
Michal Pristas <michal.pristas@gmail.com>  
Michalis Kargakis <michaliskargakis@gmail.com>  
Michel Lespinasse <>walken@google.com>  
Miek Gieben <miek@miek.nl> <remigius.gieben@gmail.com>  
Miguel Mendez <stxmendez@gmail.com>

Miguel Molina <hi@mvader.me>  
Mihai Borobocea <MihaiBorobocea@gmail.com>  
Mihail Minaev <minaev.mike@gmail.com>  
Mikael Tillenius <mikti42@gmail.com>  
Mike Andrews <mra@xoba.com>  
Mike Appleby <mike@app.leby.org>  
Mike Danese <mikedanese@google.com>  
Mike Houston <mike@kothar.net>  
Mike Rosset <mike.rosset@gmail.com>  
Mike Samuel <mikesamuel@gmail.com>  
Mike Solomon <msolo@gmail.com>  
Mike Strosaker <strosake@us.ibm.com>  
Mike Wiacek <mjwiacek@google.com>  
Mikhail Gusarov <dottedmag@dottedmag.net>  
Mikhail Panchenko <m@mihasya.com>  
Miki Tebeka <miki.tebeka@gmail.com>  
Mikio Hara <mikioh.mikioh@gmail.com>  
Mikkel Krautz <mikkel@krautz.dk> <krautz@gmail.com>  
Milutin Jovanovic <jovanovic.milutin@gmail.com>  
Miquel Sabat Sol <mikisabate@gmail.com>  
Miroslav Genov <mgenov@gmail.com>  
Mohit Agarwal <mohit@sdf.org>  
Momchil Velikov <momchil.velikov@gmail.com>  
Monis Khan <mkhan@redhat.com>  
Monty Taylor <mordred@inaugust.com>  
Moriyoshi Koizumi <mozo@mozo.jp>  
Morten Siebuhr <sbhr@sbhr.dk>  
Mshe van der Sterre <moshevds@gmail.com>  
Mostyn Bramley-Moore <mostyn@antipode.se>  
Mrunal Patel <mrunalp@gmail.com>  
Muhammad Falak R Wani <falakreyaz@gmail.com>  
Muhammed Uluyol <uluyol0@gmail.com>  
Mura Li <mura\_li@castech.com.tw>  
Nan Deng <monnand@gmail.com>  
Naoki Kanatani <k12naoki@gmail.com>  
Nathan Caza <mastercactapus@gmail.com>  
Nathan Humphreys <nkhumphreys@gmail.com>  
Nathan John Youngman <nj@nathany.com>  
Nathan Otterness <otterness@cs.unc.edu>  
Nathan P Finch <nate.finch@gmail.com>  
Nathan VanBenschoten <nvanbenschoten@gmail.com>  
Nathan Youngman <git@nathany.com>  
Nathan(yinian) Hu <nathanhu@google.com>  
Nathaniel Cook <nvcook42@gmail.com>  
Neelesh Chandola <neelesh.c98@gmail.com>  
Neil Lyons <nwjlyons@googlemail.com>  
Neuman Vong <neuman.vong@gmail.com>  
Nevins Bartolomeo <nevins.bartolomeo@gmail.com>

Niall Sheridan <nsheridan@gmail.com>  
Nic Day <nic.day@me.com>  
Nicholas Katsaros <nick@nickkatsaros.com>  
Nicholas Maniscalco <nicholas@maniscalco.com>  
Nicholas Presta <nick@nickpresta.ca> <nick1presta@gmail.com>  
Nicholas Sullivan <nicholas.sullivan@gmail.com>  
Nicholas Waples <nwaples@gmail.com>  
Nick Cooper <nmvc@google.com>  
Nick Craig-Wood <nick@craig-wood.com> <nickcw@gmail.com>  
Nick Harper <nharper@google.com>  
Nick Kubala <nkubala@google.com>  
Nick Leli <nicholasleli@gmail.com>  
Nick Miyake <nmiyake@users.noreply.github.com>  
Nick Patavalis <nick.patavalis@gmail.com>  
Nick Petroni <npetroni@cs.umd.edu>  
Nick Robinson <nrobinson13@gmail.com>  
Nicolas BRULEZ <n.brulez@gmail.com>  
Nicolas Kaiser <nikai@nikai.net>  
Nicolas Owens <mischief@offblast.org>  
Nicolas S. Dade <nic.dade@gmail.com>  
Niels Widger <niels.widger@gmail.com>  
Nigel Kerr <nigel.kerr@gmail.com>  
Nigel Tao <nigeltao@golang.org>  
Nik Nyby <nnyby@columbia.edu>  
Niklas Schnelle <niklas.schnelle@gmail.com>  
Niko Dziemba <niko@dziemba.com>  
Nikolay Turpitko <nikolay@turpitko.com>  
Nils Larsgrd <nilsmagnus@gmail.com>  
Niranjan Godbole <niranjan8192@gmail.com>  
Noah Campbell <noahcampbell@gmail.com>  
Noble Johnson <noblepoly@gmail.com>  
Nodir Turakulov <nodir@google.com>  
Norberto Lopes <nlopes.ml@gmail.com>  
Odin Ugedal <odin@ugedal.com>  
Oleg Bulatov <dmage@yandex-team.ru>  
Oleg Vakheta <helginet@gmail.com>  
Oleku Konko <oleku.konko@gmail.com>  
Oling Cat <olingcat@gmail.com>  
Oliver Hookins <ohookins@gmail.com>  
Oliver Tonnhofer <olt@bogosoftware.com>  
Olivier Antoine <olivier.antoine@gmail.com>  
Olivier Duperray <duperray.olivier@gmail.com>  
Olivier Poitrey <rs@dailymotion.com>  
Olivier Saingre <osaingre@gmail.com>  
Omar Jarjur <ojarjur@google.com>  
zgr Kesim <oec-go@kesim.org>  
Pablo Lalloni <plalloni@gmail.com>  
Pablo Santiago Blum de Aguiar <scorplus@gmail.com>

Padraig Kitterick <padraigkitterick@gmail.com>  
Paolo Giarrusso <p.giarrusso@gmail.com>  
Paolo Martini <mrtnpaolo@gmail.com>  
Parker Moore <parkrmoore@gmail.com>  
Pascal S. de Kloe <pascal@quies.net>  
Pat Moroney <pat@pat.email>  
Patrick Crosby <patrick@stathat.com>  
Patrick Gavlin <pgavlin@gmail.com>  
Patrick Higgins <patrick.allen.higgins@gmail.com>  
Patrick Lee <pattyshack101@gmail.com>  
Patrick Mzard <patrick@mezard.eu>  
Patrick Mylund Nielsen <patrick@patrickmn.com>  
Patrick Pelletier <pp.pelletier@gmail.com>  
Patrick Riley <pfr@google.com>  
Patrick Smith <pat42smith@gmail.com>  
Paul A Querna <paul.querna@gmail.com>  
Paul Borman <borman@google.com>  
Paul Boyd <boyd.paul2@gmail.com>  
Paul Chang <paulchang@google.com>  
Paul Hammond <paul@paulhammond.org>  
Paul Hankin <paulhankin@google.com>  
Paul Jolly <paul@myitcv.org.uk>  
Paul Lalonde <paul.a.lalonde@gmail.com>  
Paul Marks <pmarks@google.com>  
Paul Meyer <paul.meyer@microsoft.com>  
Paul Nasrat <pnasrat@google.com>  
Paul PISCUC <paul.piscuc@gmail.com>  
Paul Querna <pquerna@apache.org>  
Paul Rosania <paul.rosania@gmail.com>  
Paul Ruest <pruest@gmail.com>  
Paul Sbarra <Sbarra.Paul@gmail.com>  
Paul Smith <paulsmith@pobox.com> <paulsmith@gmail.com>  
Paul van Brouwershaven <paul@vanbrouwershaven.com>  
Paul Wankadia <junyer@google.com>  
Paulo Casaretto <pcasaretto@gmail.com>  
Paulo Flabiano Smorigo <pfsmorigo@linux.vnet.ibm.com>  
Pavel Paulau <pavel.paulau@gmail.com>  
Pavel Zinovkin <pavel.zinovkin@gmail.com>  
Pavlo Sumkin <ymkins@gmail.com>  
Pawel Knap <pawelknap88@gmail.com>  
Pawel Szczur <filemon@google.com>  
Percy Wegmann <ox.to.a.cart@gmail.com>  
Perry Abbott <perry.j.abbott@gmail.com>  
Petar Maymoukov <petarm@gmail.com>  
Peter Armitage <peter.armitage@gmail.com>  
Peter Bourgon <peter@bourgon.org>  
Peter Collingbourne <pcc@google.com>  
Peter Froehlich <peter.hans.froehlich@gmail.com>



Peter Gonda <pgonda@google.com>  
Peter Kleiweg <pkleiweg@xs4all.nl>  
Peter McKenzie <petermck@google.com>  
Peter Moody <pmoody@uber.com>  
Peter Morjan <pmorjan@gmail.com>  
Peter Mundy <go.peter.90@gmail.com>  
Peter Nguyen <peter@mictis.com>  
Pter Surnyi <speter.go1@gmail.com>  
Pter Szab <pts@google.com>  
Pter Szilgyi <peterke@gmail.com>  
Peter Tseng <ptseng@squareup.com>  
Peter Waldschmidt <peter@waldschmidt.com>  
Peter Waller <peter.waller@gmail.com>  
Peter Weinberger <pjw@golang.org>  
Peter Williams <pwil3058@gmail.com>  
Peter Wu <pwu@cloudflare.com>  
Petrica Voicu <pvoicu@paypal.com>  
Phil Pennock <pdp@golang.org>  
Philip Brgesen <philip.borgesen@gmail.com>  
Philip Hofer <phofer@umich.edu>  
Philip K. Warren <pkwarren@gmail.com>  
Pierre Durand <pierredurand@gmail.com>  
Pierre Roullon <pierre.roullon@gmail.com>  
Piers <google@hellopiers.pro>  
Pieter Droogendijk <pieter@binky.org.uk>  
Pietro Gagliardi <pietro10@mac.com>  
Pontus Leitzler <leitzler@gmail.com>  
Prasanna Swaminathan <prasanna@mediamath.com>  
Prashant Varanasi <prashant@prashantv.com>  
Pravendra Singh <hackpravj@gmail.com>  
Preetam Jinka <pj@preet.am>  
Qiuxuan Zhu <ilsh1022@gmail.com>  
Quan Tran <qeed.quan@gmail.com>  
Quan Yong Zhai <qyzhai@gmail.com>  
Quentin Perez <qperez@ocs.online.net>  
Quentin Renard <contact@asticode.com>  
Quentin Smith <quentin@golang.org>  
Quinn Slack <sqs@sourcegraph.com>  
Quoc-Viet Nguyen <afelion@gmail.com>  
Radek Sohlich <sohlich@gmail.com>  
Radu Berinde <radu@cockroachlabs.com>  
Rafal Jeczalik <rjeczalik@gmail.com>  
Rahul Chaudhry <rahulchaudhry@chromium.org>  
Raif S. Naffah <go@naffah-raif.name>  
Rajat Goel <rajat.goel2010@gmail.com>  
Rajath Agasthya <rajathagasthya@gmail.com>  
Rajender Reddy Kompally <rajenderreddykompally@gmail.com>  
Ralph Corderoy <ralph@inputplus.co.uk>

Ramazan AYYILDIZ <rayyildiz@gmail.com>  
Ramesh Dharan <dharan@google.com>  
Raph Levien <raph@google.com>  
Raphael Geronimi <raphael.geronimi@gmail.com>  
Raul Silvera <rsilvera@google.com>  
RaviTeja Pothana <ravi.tezu@gmail.com>  
Ray Tung <rtung@thoughtworks.com>  
Raymond Kazlauskas <raima220@gmail.com>  
Rebecca Stambler <rstambler@golang.org>  
Reilly Watson <reillywatson@gmail.com>  
Reinaldo de Souza Jr <juniorz@gmail.com>  
Remi Gillig <remigillig@gmail.com>  
Rmy Oudompheng <oudomphe@phare.normalesup.org> <remyoudompheng@gmail.com>  
Rhys Hiltner <rhys@justin.tv>  
Ricardo Padilha <ricardospadilha@gmail.com>  
Richard Barnes <rlb@ipv.sx>  
Richard Crowley <r@rcrowley.org>  
Richard Dingwall <rdingwall@gmail.com>  
Richard Eric Gavaletz <gavaletz@gmail.com>  
Richard Gibson <richard.gibson@gmail.com>  
Richard Miller <miller.research@gmail.com>  
Richard Musiol <mail@richard-musiol.de> <neelance@gmail.com>  
Rick Arnold <rickarnoldjr@gmail.com>  
Rick Hudson <rlh@golang.org>  
Rick Sayre <whorfin@gmail.com>  
Riku Voipio <riku.voipio@linaro.org>  
Risto Jaakko Saarelm <rsaarelm@gmail.com>  
Rob Earhart <earhart@google.com>  
Rob Norman <rob.norman@infinitycloud.com>  
Rob Phoenix <rob@robphoenix.com>  
Rob Pike <r@golang.org>  
Robert Daniel Kortschak <dan.kortschak@adelaide.edu.au>  
Robert Dinu <r@varp.se>  
Robert Figueiredo <robfig@gmail.com>  
Robert Griesemer <gri@golang.org>  
Robert Hencke <robert.hencke@gmail.com>  
Robert Iannucci <iannucci@google.com>  
Robert Obryk <robryk@gmail.com>  
Robert Sesek <rsesek@google.com>  
Robert Snedegar <roberts@google.com>  
Robert Stepanek <robert.stepanek@gmail.com>  
Robin Eklind <r.eklind.87@gmail.com>  
Rodrigo Moraes de Oliveira <rodrigo.moraes@gmail.com>  
Rodrigo Rafael Monti Kochenburger <divoxx@gmail.com>  
Roger Pau Monn <royger@gmail.com>  
Roger Peppe <rogpeppe@gmail.com>  
Roland Shoemaker <rolandshoemaker@gmail.com>  
Roman Budnikov <romanyx90@yandex.ru>

Ron Hashimoto <mail@h2so5.net>  
Ron Minnich <rminnich@gmail.com>  
Ross Chater <rdchater@gmail.com>  
Ross Light <light@google.com> <rlight2@gmail.com>  
Rowan Worth <sqweek@gmail.com>  
Rudi Kramer <rudi.kramer@gmail.com>  
Rui Ueyama <ruiiu@google.com>  
Russ Cox <rsc@golang.org>  
Russell Haering <russellhaering@gmail.com>  
Ryan Bagwell <ryanbagwell@outlook.com>  
Ryan Barrett <ryanb@google.com>  
Ryan Boehning <ryan.boehning@apcera.com>  
Ryan Brown <ribrdb@google.com>  
Ryan Hitchman <hitchmanr@gmail.com>  
Ryan Lower <rpjlower@gmail.com>  
Ryan Seys <ryan@ryanseys.com>  
Ryan Slade <ryanslade@gmail.com>  
Ryoichi KATO <ryo1kato@gmail.com>  
Ryuji Iwata <qt.luigi@gmail.com>  
Ryuzo Yamamoto <ryuzo.yamamoto@gmail.com>  
S.alar Onur <caglar@10ur.org>  
Sai Cheemalapati <saicheems@google.com>  
Sakeven Jiang <jc5930@sina.cn>  
Salmn Aljammz <s@0x65.net>  
Sam Boyer <tech@samboyer.org>  
Sam Ding <samding@ca.ibm.com>  
Sam Hug <samuel.b.hug@gmail.com>  
Sam Thorogood <thorogood@google.com> <sam.thorogood@gmail.com>  
Sam Whited <sam@samwhited.com>  
Sameer Ajmani <sameer@golang.org> <ajmani@gmail.com>  
Sami Commerot <samic@google.com>  
Samuel Tan <samueltan@google.com>  
Samuele Pedroni <pedronis@lucediaruna.net>  
Sanjay Menakuru <balasanjay@gmail.com>  
Sarah Adams <shadams@google.com>  
Sascha Brawer <sascha@brawer.ch>  
Sasha Lionheart <lionhearts@google.com>  
Sasha Sobol <sasha@scaledinference.com>  
Scott Barron <scott.barron@github.com>  
Scott Bell <scott@sctsm.com>  
Scott Crunkleton <crunk1@gmail.com>  
Scott Ferguson <scottwferg@gmail.com>  
Scott Lawrence <bytbox@gmail.com>  
Scott Mansfield <smansfield@netflix.com>  
Scott Schwartz <scotts@golang.org>  
Scott Van Woudenberg <scottvw@google.com>  
Sean Burford <sburford@google.com>  
Sean Chittenden <seanc@joyent.com>

Sean Christopherson <sean.j.christopherson@intel.com>  
Sean Dolphin <Sean.Dolphin@kpcompass.com>  
Sean Harger <sharger@google.com>  
Sean Rees <sean@erifax.org>  
Sebastien Binet <seb.binet@gmail.com>  
Sbastien Paolacci <sebastien.paolacci@gmail.com>  
Seiji Takahashi <timaki.st@gmail.com>  
Sergei Skorobogatov <skorobo@rambler.ru>  
Sergey 'SnakE' Gromov <snake.scaly@gmail.com>  
Sergey Arseev <sergey.arseev@intel.com>  
Sergey Frolov <sfrolov@google.com>  
Sergey Mishin <sergeymishine@gmail.com>  
Sergey Semin <gray12511@gmail.com>  
Sergio Luis O. B. Correia <sergio@correia.cc>  
Sergiusz Bazanski <bazanski@gmail.com>  
Seth Hoenig <seth.a.hoenig@gmail.com>  
Seth Vargo <sethvargo@gmail.com>  
Shahar Kohanim <skohanim@gmail.com>  
Shane Hansen <shanemhansen@gmail.com>  
Shaozhen Ding <dsz0111@gmail.com>  
Shawn Ledbetter <sledbetter@google.com>  
Shawn Smith <shawn.p.smith@gmail.com>  
Shawn Walker-Salas <shawn.walker@oracle.com>  
Shenghou Ma <minux@golang.org> <minux.ma@gmail.com>  
Shi Han Ng <shihanng@gmail.com>  
Shinji Tanaka <shinji.tanaka@gmail.com>  
Shintaro Kaneko <kaneshin0120@gmail.com>  
Shivakumar GN <shivakumar.gn@gmail.com>  
Shun Fan <sfan@google.com>  
Silvan Jegen <s.jegen@gmail.com>  
Simon Jefford <simon.jefford@gmail.com>  
Simon Rawet <simon@rawet.se>  
Simon Thulbourn <simon+github@thulbourn.com>  
Simon Whitehead <chemnova@gmail.com>  
Sina Siadat <siadat@gmail.com>  
Sokolov Yura <funny.falcon@gmail.com>  
Song Gao <song@gao.io>  
Spencer Nelson <s@spenczar.com>  
Spencer Tung <spencertung@google.com>  
Spring Mc <heresy.mc@gmail.com>  
Srdjan Petrovic <spetrovic@google.com>  
Sridhar Venkatakrishnan <sridhar@laddoo.net>  
StalkR <stalkr@stalkr.net>  
Stan Schwertly <stan@schwertly.com>  
Stanislav Afanasev <php.progger@gmail.com>  
Stefan Nilsson <snilsson@nada.kth.se> <trolleriprofessorn@gmail.com>  
Stphane Travostino <stephane.travostino@gmail.com>  
Stephen Ma <stephenm@golang.org>

Stephen McQuay <stephen@mcquay.me>  
Stephen Searles <stephens2424@gmail.com>  
Stephen Weinberg <stephen@q5comm.com>  
Steve Francia <spf@golang.org>  
Steve Gilbert <stevegilbert23@gmail.com>  
Steve McCoy <mccoyst@gmail.com>  
Steve Newman <snewman@google.com>  
Steve Phillips <elimistev@gmail.com>  
Steve Streeting <steve@stevestreeting.com>  
Steven Buss <sbuss@google.com>  
Steven Elliot Harris <seharris@gmail.com>  
Steven Erenst <stevenerenst@gmail.com>  
Steven Hartland <steven.hartland@multiplay.co.uk>  
Steven Wilkin <stevenwilkin@gmail.com>  
Sugu Sougoumarane <ssougou@gmail.com>  
Suharsh Sivakumar <suharshs@google.com>  
Sukrit Handa <sukrit.handa@utoronto.ca>  
Sunny <me@darkowlzz.space>  
Suyash <dextrous93@gmail.com>  
Suzy Mueller <suzmue@golang.org>  
Sven Almgren <sven@tras.se>  
Sven Blumenstein <svbl@google.com>  
Sylvain Zimmer <sylvain@sylvainzimmer.com>  
Syohei YOSHIDA <syohex@gmail.com>  
Szabolcs Nagy <nsz@port70.net>  
Tad Fisher <tadfisher@gmail.com>  
Tad Glines <tad.glines@gmail.com>  
Taj Khattrra <taj.khattrra@gmail.com>  
Takashi Matsuo <tmatsuo@google.com>  
Takeshi YAMANASHI <9.nashi@gmail.com>  
Takuto Ikuta <tikuta@google.com>  
Takuya Ueda <uedatakuya@gmail.com>  
Tal Shprecher <tshprecher@gmail.com>  
Tamir Duberstein <tamird@gmail.com>  
Tao Wang <twang2218@gmail.com>  
Tarmigan Casebolt <tarmigan@gmail.com>  
Taro Aoki <aizu.s1230022@gmail.com>  
Taru Karttunen <taruti@taruti.net>  
Tatsuhiko Tsujikawa <tatsuhiko.t@gmail.com>  
Ted Kornish <golang@tedkornish.com>  
Terin Stock <terinjokes@gmail.com>  
Terrel Shumway <gopher@shumway.us>  
Tetsuo Kiso <tetsuokiso9@gmail.com>  
Than McIntosh <thanm@google.com>  
Thanatat Tamtan <acoshift@gmail.com>  
Thiago Avelino <t@avelino.xxx>  
Thiago Fransosi Farina <thiago.farina@gmail.com> <tfarina@chromium.org>  
Thomas Alan Copeland <talan.copeland@gmail.com>

Thomas Bonfort <thomas.bonfort@gmail.com>  
Thomas Bouldin <inlined@google.com>  
Thomas de Zeeuw <thomasdezeeuw@gmail.com>  
Thomas Desrosiers <thomasdesr@gmail.com>  
Thomas Habets <habets@google.com>  
Thomas Kappler <tkappler@gmail.com>  
Thomas Wanielista <tomwans@gmail.com>  
Thorben Krueger <thorben.krueger@gmail.com>  
Thordur Bjornsson <thorduri@secnorth.net>  
Tilman Dilo <tilman.dilo@gmail.com>  
Tim Cooijmans <timcooijmans@gmail.com>  
Tim Cooper <tim.cooper@layeh.com>  
Tim Ebringer <tim.ebringer@gmail.com>  
Tim Heckman <t@heckman.io>  
Tim Henderson <tim.tadh@gmail.com>  
Tim Hockin <thockin@google.com>  
Tim Swast <swast@google.com>  
Tim Wright <tenortim@gmail.com>  
Timo Savola <timo.savola@gmail.com>  
Timo Truys <alkaloid.btx@gmail.com>  
Timothy Studd <tim@timstudd.com>  
Tipp Moseley <tipp@google.com>  
Tobias Assarsson <tobias.assarsson@gmail.com>  
Tobias Columbus <tobias.columbus@gmail.com> <tobias.columbus@googlemail.com>  
Tobias Klauser <tklauser@distanz.ch>  
Toby Burrell <kurin@google.com>  
Todd Neal <todd@tneal.org>  
Todd Wang <toddwang@gmail.com>  
Tom Bergan <tombergan@google.com>  
Tom Heng <zhm20070928@gmail.com>  
Tom Lanyon <tomlanyon@google.com>  
Tom Levy <tomlevy93@gmail.com>  
Tom Linfoord <tomlinfoord@gmail.com>  
Tom Szymanski <tgs@google.com>  
Tom Wilkie <tom@weave.works>  
Tommy Schaefer <tommy.schaefer@teecom.com>  
Tonis Tiigi <tonistiigi@gmail.com>  
Tony Walker <walkert.uk@gmail.com>  
Tor Andersson <tor.andersson@gmail.com>  
Tormod Erevik Lea <tormodlea@gmail.com>  
Toshiki Shima <hayabusa1419@gmail.com>  
Totoro W <tw19881113@gmail.com>  
Travis Cline <travis.cline@gmail.com>  
Trevor Strohman <trevor.strohman@gmail.com>  
Trey Lawrence <lawrence.trey@gmail.com>  
Trey Roessig <trey.roessig@gmail.com>  
Trey Tacon <ttacon@gmail.com>  
Tristan Amini <tamini01@ca.ibm.com>

Tristan Colgate <tcogate@gmail.com>  
Tristan Oohry <oohry@gmail.com>  
Troels Thomsen <troels@thomsen.io>  
Trung Nguyen <trung.n.k@gmail.com>  
Tudor Golubenco <tudor.g@gmail.com>  
Tugdual Saunier <tugdual.saunier@gmail.com>  
Tuo Shan <sturbo89@gmail.com> <shantuo@google.com>  
Tyler Bui-Palsulich <tpalsulich@google.com>  
Tyler Bunnell <tylerbunnell@gmail.com>  
Tyler Treat <ttreat31@gmail.com>  
Tzu-Jung Lee <roylee17@currant.com>  
Ugorji Nwoke <ugorji@gmail.com>  
Ulf Holm Nielsen <doktor@dyregod.dk>  
Ulrich Kunitz <uli.kunitz@gmail.com>  
Uriel Mangado <uriel@berlinblue.org>  
Uttam C Pawar <uttam.c.pawar@intel.com>  
Vadim Grek <vadimprog@gmail.com>  
Vadim Vygonets <unixdj@gmail.com>  
Vega Garcia Luis Alfonso <vegacom@gmail.com>  
Victor Chudnovsky <vchudnov@google.com>  
Victor Vrantchan <vrancean+github@gmail.com>  
Vikas Kedia <vikask@google.com>  
Vincent Ambo <tazjin@googlemail.com>  
Vincent Batts <vbatts@hashbangbash.com> <vbatts@gmail.com>  
Vincent Vanackere <vincent.vanackere@gmail.com>  
Vinu Rajashekhar <vinutheraj@gmail.com>  
Vish Subramanian <vish@google.com>  
Vishvananda Ishaya <vishvananda@gmail.com>  
Vitor De Mario <vitordemario@gmail.com>  
Vlad Krasnov <vlad@cloudflare.com>  
Vladimir Mihailenco <vladimir.webdev@gmail.com>  
Vladimir Nikishenko <vova616@gmail.com>  
Vladimir Stefanovic <vladimir.stefanovic@imgtec.com>  
Vladimir Varankin <nek.narqo@gmail.com>  
Volker Dobler <dr.volker.dobler@gmail.com>  
Volodymyr Paprotski <vpaprots@ca.ibm.com>  
Wade Simmons <wade@wades.im>  
Walter Poupore <wpoupore@google.com>  
Wander Lairson Costa <wcosta@mozilla.com>  
Wedson Almeida Filho <wedsonaf@google.com>  
Wi Cngru <crvv.mail@gmail.com>  
Wei Guangjing <vcc.163@gmail.com>  
Wei Xiao <wei.xiao@arm.com>  
Weichao Tang <tevic.tt@gmail.com>  
Wembley G. Leach, Jr <wembley.gl@gmail.com>  
Will Chan <willchan@google.com>  
Will Faught <will.faught@gmail.com>  
Will Norris <willnorris@google.com>

Will Storey <will@summercat.com>  
Willem van der Schyff <willemvds@gmail.com>  
William Chan <willchan@chromium.org>  
William Josephson <wjosephson@gmail.com>  
William Orr <will@worrbase.com> <ay1244@gmail.com>  
Wisdom Omuya <deafgoat@gmail.com>  
Wu Yunzhou <yunzhouwu@gmail.com>  
Xi Ruoyao <xry23333@gmail.com>  
Xia Bin <snyh@snyh.org>  
Xing Xing <mikespook@gmail.com>  
Xu Fei <badgangkiller@gmail.com>  
Xudong Zhang <felixmelon@gmail.com>  
Xuyang Kang <xuyangkang@gmail.com>  
Yan Zou <yzou@google.com>  
Yann Kerherv <yann.kerherve@gmail.com>  
Yann Salan <yannsalaun1@gmail.com>  
Yao Zhang <lunaria21@gmail.com>  
Yasha Bubnov <girokompas@gmail.com>  
Yasuharu Goto <matope.ono@gmail.com>  
Yasuhiro Matsumoto <mattn.jp@gmail.com>  
Yestin Sun <ylh@pdx.edu>  
Yesudeep Mangalapilly <yesudeep@google.com>  
Yissakhar Z. Beck <yissakhar.beck@gmail.com>  
Yo-An Lin <yoanlin93@gmail.com>  
Yongjian Xu <i3dmaster@gmail.com>  
Yorman Arias <cixtords@gmail.com>  
Yoshiyuki Kanno <nekotaroh@gmail.com> <yoshiyuki.kanno@stoic.co.jp>  
Yosuke Akatsuka <yosuke.akatsuka@gmail.com>  
Yu Heng Zhang <annita.zhang@cn.ibm.com>  
Yu Xuan Zhang <zyxsh@cn.ibm.com>  
Yuki Yugui Sonoda <yugui@google.com>  
Yukihiro Nishinaka <6elpinal@gmail.com>  
Yusuke Kagiwada <block.rxckin.beats@gmail.com>  
Yuusei Kuwana <kuwana@kumama.org>  
Yuval Pavel Zholkover <paulzhol@gmail.com>  
Yves Junqueira <yvesj@google.com> <yves.junqueira@gmail.com>  
Zac Bergquist <zbergquist99@gmail.com>  
Zach Bintliff <zbintliff@gmail.com>  
Zach Gershman <zachgersh@gmail.com>  
Zak <zrjknill@gmail.com>  
Zakatell Kanda <hi@zkanda.io>  
Zellyn Hunter <zellyn@squareup.com> <zellyn@gmail.com>  
Zev Goldstein <zev.goldstein@gmail.com>  
Zhengyu He <hzy@google.com>  
Zhongtao Chen <chenzhongtao@126.com>  
Zhongwei Yao <zhongwei.yao@arm.com>  
Ziad Hatahet <hatahet@gmail.com>  
Zorion Arrizabalaga <zorionk@gmail.com>



<max.faceless.frei@gmail.com>

<hagen1778@gmail.com>

<tbunyk@gmail.com>

<faxriddinjon@gmail.com>

<zs349596@gmail.com>

<bronze1man@gmail.com>

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# 1.101 golang-snappy 0.0.1

## 1.101.1 Available under license :

```
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Damian Gryski <dgryski@gmail.com>

Jan Mercl <0xjnm@gmail.com>

Kai Backman <kaib@golang.org>

Marc-Antoine Ruel <maruel@chromium.org>

Nigel Tao <nigeltao@golang.org>

Rob Pike <r@golang.org>

Rodolfo Carvalho <rhcarvalho@gmail.com>

Russ Cox <rsc@golang.org>

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## 1.102 inf 0.9.1

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## 1.103 pause 3.1 3.1

## 1.104 selinux 2.7-2build2

### 1.104.1 Available under license :

This is the Debian packe for libselinux, and it is built from sources obtained from:  
<http://userspace.selinuxproject.org/trac/wiki/Releases>

This package was debianized by Colin Walters <walters@debian.org> on  
Thu, 3 Jul 2003 17:10:57 -0400.

This library (libselinux) is public domain software, i.e. not copyrighted.

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-----  
However, one file (utils/avcstat.c) is  
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version 2.

-----  
In addition, The Debian specific package was modified to include an  
excerpt from the GNU libc package in the file  
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your option) any later version.

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On Debian systems, the complete text of the GNU Library  
General Public License can be found in `~/usr/share/common-licenses/LGPL-2.1'`.

-----  
This package is maintained by Manoj Srivastava <srivasta@debian.org>.

The Debian specific changes are 2005, 2006, Manoj Srivastava  
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it by writing to the Free Software Foundation, Inc., 51 Franklin  
St, Fifth Floor, Boston, MA 02110-1301, USA.

Manoj Srivastava <srivasta@debian.org>  
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

# 1.105 libjpeg 6b

## 1.105.1 Notifications :

This software is based in part on the work of the Independent JPEG Group.

## 1.105.2 Available under license :

The Independent JPEG Group's JPEG software

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README for release 6b of 27-Mar-1998

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This distribution contains the sixth public release of the Independent JPEG Group's free JPEG software. You are welcome to redistribute this software and to use it for any purpose, subject to the conditions under LEGAL ISSUES, below.

Serious users of this software (particularly those incorporating it into larger programs) should contact IJG at [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net) to be added to our electronic mailing list. Mailing list members are notified of updates and have a chance to participate in technical discussions, etc.

This software is the work of Tom Lane, Philip Gladstone, Jim Boucher, Lee Crocker, Julian Minguillon, Luis Ortiz, George Phillips, Davide Rossi, Guido Vollbeding, Ge' Weijers, and other members of the Independent JPEG Group.

IJG is not affiliated with the official ISO JPEG standards committee.

### DOCUMENTATION ROADMAP

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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.
- RELATED SOFTWARE    Other stuff you should get.
- FILE FORMAT WARS    Software \*not\* to get.
- TO DO            Plans for future IJG releases.

Other documentation files in the distribution are:

User documentation:

- install.doc     How to configure and install the IJG software.
- usage.doc       Usage instructions for cjpeg, djpeg, jpegtran,

rdjpgcom, and wrjpgcom.

- \*.1            Unix-style man pages for programs (same info as usage.doc).
  - wizard.doc    Advanced usage instructions for JPEG wizards only.
  - change.log    Version-to-version change highlights.
- Programmer and internal documentation:
- libjpeg.doc    How to use the JPEG library in your own programs.
  - example.c     Sample code for calling the JPEG library.
  - structure.doc  Overview of the JPEG library's internal structure.
  - filelist.doc   Road map of IJG files.
  - coderrules.doc Coding style rules --- please read if you contribute code.

Please read at least the files install.doc and usage.doc. Useful 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 compression and decompression. JPEG (pronounced "jay-peg") is a standardized compression method for full-color and gray-scale images. JPEG is intended for compressing "real-world" scenes; line drawings, cartoons and other non-realistic images are not its strong suit. JPEG is lossy, meaning that the output image is not exactly identical to the input image. Hence you must not use JPEG if you have to have identical output bits. However, on typical photographic images, very good compression levels can be obtained with no visible change, and remarkably high compression levels are possible if you can tolerate a low-quality image. For more details, see the references, or just experiment with various compression settings.

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. For legal reasons, we are not distributing code for the arithmetic-coding variants of JPEG; see LEGAL ISSUES. 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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(2) If only executable code is distributed, then the accompanying documentation must state that "this software is based in part on the work of the Independent JPEG Group".

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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, ltconfig, ltmain.sh). Another support script, install-sh, is copyright by M.I.T. but is also freely distributable.

It appears that the arithmetic coding option of the JPEG spec is covered by patents owned by IBM, AT&T, and Mitsubishi. Hence arithmetic coding cannot legally be used without obtaining one or more licenses. For this reason, support for arithmetic coding has been removed from the free JPEG software. (Since arithmetic coding provides only a marginal gain over the unpatented Huffman mode, it is unlikely that very many implementations will support it.) So far as we are aware, there are no patent restrictions on the remaining code.

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.

We are required to state that

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## REFERENCES

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We highly 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 <ftp://ftp.uu.net/graphics/jpeg/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 full 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). This is by far the most complete exposition of JPEG in existence, and we highly recommend it.

The JPEG standard itself is not available electronically; you must order a paper copy through ISO or ITU. (Unless you feel a need to own a certified

official copy, we recommend buying the Pennebaker and Mitchell book instead; it's much cheaper and includes a great deal of useful explanatory material.) In the USA, copies of the standard may be ordered from ANSI Sales at (212) 642-4900, or from Global Engineering Documents at (800) 854-7179. (ANSI doesn't take credit card orders, but Global does.) It's not cheap: as of 1992, ANSI was charging \$95 for Part 1 and \$47 for Part 2, plus 7% shipping/handling. The 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.

Some extensions to the original JPEG standard are defined in JPEG Part 3, a newer ISO standard numbered ISO/IEC IS 10918-3 and ITU-T T.84. IJG currently does not support any Part 3 extensions.

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. A copy of the JFIF spec is available from:

Literature Department  
C-Cube Microsystems, Inc.  
1778 McCarthy Blvd.  
Milpitas, CA 95035  
phone (408) 944-6300, fax (408) 944-6314

A PostScript version of this document is available by FTP at <ftp://ftp.uu.net/graphics/jpeg/jfif.ps.gz>. There is also a plain text version at <ftp://ftp.uu.net/graphics/jpeg/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 <ftp.sgi.com> or from <ftp://ftp.uu.net/graphics/jpeg/>. 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. libtiff is available from <ftp://ftp.sgi.com/graphics/tiff/>.

#### ARCHIVE LOCATIONS

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The "official" archive site for this software is <ftp.uu.net> (Internet

address 192.48.96.9). The most recent released version can always be found there in directory graphics/jpeg. This particular version will be archived as ftp://ftp.uu.net/graphics/jpeg/jpegsrc.v6b.tar.gz. If you don't have direct Internet access, UUNET's archives are also available via UUCP; contact help@uunet.uu.net for information on retrieving files that way.

Numerous Internet sites maintain copies of the UUNET files. However, only ftp.uu.net is guaranteed to have the latest official version.

You can also obtain this software in DOS-compatible "zip" archive format from the SimTel archives (ftp://ftp.simtel.net/pub/simtelnet/msdos/graphics/), or on CompuServe in the Graphics Support forum (GO CIS:GRAPHSUP), library 12 "JPEG Tools". Again, these versions may sometimes lag behind the ftp.uu.net release.

The JPEG FAQ (Frequently Asked Questions) article is a useful source of general information about JPEG. It is updated constantly and therefore is not included in this distribution. The FAQ is posted every two weeks to Usenet newsgroups comp.graphics.misc, news.answers, and other groups. 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

#### RELATED SOFTWARE

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Numerous viewing and image manipulation programs now support JPEG. (Quite a few of them use this library to do so.) The JPEG FAQ described above lists some of the more popular free and shareware viewers, and tells where to obtain them on Internet.

If you are on a Unix machine, we highly recommend Jef Poskanzer's free PBPLUS software, which provides many useful operations on PPM-format image files. In particular, it can convert PPM images to and from a wide range of other formats, thus making cjpeg/djpeg considerably more useful. The latest version is distributed by the NetPBM group, and is available from numerous sites, notably <ftp://wuarchive.wustl.edu/graphics/graphics/packages/NetPBM/>. Unfortunately PBPLUS/NETPBM is not nearly as portable as the IJG software is; you are likely to have difficulty making it work on any non-Unix machine.

A different free JPEG implementation, written by the PVRG group at Stanford, is available from <ftp://havefun.stanford.edu/pub/jpeg/>. This program is designed for research and experimentation rather than production use;

it is slower, harder to use, and less portable than the IJG code, but it is easier to read and modify. Also, the PVRG code supports lossless JPEG, which we do not. (On the other hand, it doesn't do progressive JPEG.)

## FILE FORMAT WARS

=====

Some JPEG programs produce files that are not compatible with our library. The root of the problem is that the ISO JPEG committee failed to specify a concrete file format. Some vendors "filled in the blanks" on their own, creating proprietary formats that no one else could read. (For example, none of the early commercial JPEG implementations for the Macintosh were able to exchange compressed files.)

The file format we have adopted is called JFIF (see REFERENCES). This format has been agreed to by a number of major commercial JPEG vendors, and it has become the de facto standard. JFIF is a minimal or "low end" representation. We recommend the use of TIFF/JPEG (TIFF revision 6.0 as modified by TIFF Technical Note #2) for "high end" applications that need to record a lot of additional data about an image. TIFF/JPEG is fairly new and not yet widely supported, unfortunately.

The upcoming JPEG Part 3 standard defines a file format called SPIFF. SPIFF is interoperable with JFIF, in the sense that most JFIF decoders should be able to read the most common variant of SPIFF. SPIFF has some technical advantages over JFIF, but its major claim to fame is simply that it is an official standard rather than an informal one. At this point it is unclear whether SPIFF will supersede JFIF or whether JFIF will remain the de-facto standard. IJG intends to support SPIFF once the standard is frozen, but we have not decided whether it should become our default output format or not. (In any case, our decoder will remain capable of reading JFIF indefinitely.)

Various proprietary file formats incorporating JPEG compression also exist. We have little or no sympathy for the existence of these formats. Indeed, one of the original reasons for developing this free software was to help force convergence on common, open format standards for JPEG files. Don't use a proprietary file format!

## TO DO

=====

The major thrust for v7 will probably be improvement of visual quality. The current method for scaling the quantization tables is known not to be very good at low Q values. We also intend to investigate block boundary smoothing, "poor man's variable quantization", and other means of improving quality-vs-file-size performance without sacrificing compatibility.

In future versions, we are considering supporting some of the upcoming JPEG Part 3 extensions --- principally, variable quantization and the SPIFF file format.

As always, speeding things up is of great interest.

Please send bug reports, offers of help, etc. to [jpeg-info@uunet.uu.net](mailto:jpeg-info@uunet.uu.net).

# 1.106 bash 4.4.19 r1

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<one line to give the program's name and a brief idea of what it does.>

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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
This is free software, and you are welcome to redistribute it
under certain conditions; type `show c' for details.
```

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You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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## 1.109 jansson 2.11-r0

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## 1.111 opentracing-go 1.1.0

## 1.112 sqlite 3.22.0 1

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# 1.113 libseccomp 2.4.1 Ubuntu0.18.04.2

## 1.114 procps 3.3.12-3ubuntu1.1

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## 1.117 zlib 1.2.11 r1

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# 1.118 pam 1.1.8 3.6ubuntu2.18.04.1

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Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam\_motd/pam\_motd.c

```
-----  
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c  
+++ pam.ubuntu/modules/pam_motd/pam_motd.c  
@@ -73,6 +73,61 @@  
close(fd);  
}  
  
+int display_legal(pam_handle_t *pamh)  
+{  
+ int retval = PAM_IGNORE, rc;  
+ char *user = NULL;  
+ char *dir = NULL;  
+ char *flag = NULL;  
+ struct passwd *pwd = NULL;  
+ struct stat s;  
+ int f;  
+ /* Get the user name to determine if we need to print the disclaimer */  
+ rc = pam_get_item(pamh, PAM_USER, &user);  
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')  
+ {  
+ PAM_MODUTIL_DEF_PRIVS(privs);  
+  
+ /* Get the password entry */  
+ pwd = pam_modutil_getpwnam (pamh, user);  
+ if (pwd != NULL)  
+ {  
+ if (pam_modutil_drop_priv(pamh, &privs, pwd)) {  
+ pam_syslog(pamh, LOG_ERR,  
+ "Unable to change UID to %d temporarily\n",  
+ pwd->pw_uid);  
+ retval = PAM_SESSION_ERR;  
+ goto finished;  
+ }  
+  
+ if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)  
+ goto finished;  
+ if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)  
+ goto finished;  
+  
+ if (stat(flag, &s) != 0)  
+ {  
+ display_file(pamh, "/etc/legal");  
+ mkdir(dir, 0700);  
+ f = open(flag, O_WRONLY|O_CREAT|O_EXCL,  
+ S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);  
+ if (f>=0) close(f);  
+ }  
+ }  
+ }
```

```

+
+finished:
+   if (pam_modutil_regain_priv(pamh, &privs)) {
+       pam_syslog(pamh, LOG_ERR,
+           "Unable to change UID back to %d\n", privs.old_uid);
+       retval = PAM_SESSION_ERR;
+   }
+
+   _pam_drop(flag);
+   _pam_drop(dir);
+ }
+ }
+ return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
    return retval;
}

```

This package was debianized by J.H.M. Dassen (Ray) jdassen@debian.org on  
Wed, 23 Sep 1998 20:29:32 +0200.

It was downloaded from <ftp://ftp.kernel.org/pub/linux/libs/pam/pre/>

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# 1.120 libidn 0.9.9 Ubuntu2

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```

```
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package api

```
// LicenseAPI API
type LicenseAPI struct {
    *baseAPI
}

// NewLicenseAPI API
func NewLicenseAPI(client *Client) *LicenseAPI {
    return &LicenseAPI{
        &baseAPI{
            client: client,
            FuncGetResourceURL: func() string {
                return "license"
            },
        },
    }
}
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```

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```

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For the server\util\_md5.c component:

```

/*****
* NCSA HTTPd Server
* Software Development Group
* National Center for Supercomputing Applications
* University of Illinois at Urbana-Champaign
* 605 E. Springfield, Champaign, IL 61820
* httpd@ncsa.uiuc.edu
*
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*
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```
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* -----
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* -----
*/
```

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# This comes from X11R5 (mit/util/scripts/install.sh).

#

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For the pcre component:

## PCRE LICENCE

-----

PCRE is a library of functions to support regular expressions whose syntax  
and semantics are as close as possible to those of the Perl 5 language.

Written by: Philip Hazel <ph10@cam.ac.uk>

University of Cambridge Computing Service,  
Cambridge, England. Phone: +44 1223 334714.

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```
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=====
```

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Written by Adam Twiss (adam@zeus.co.uk). March 1996

Thanks to the following people for their input:

Mike Belshe (mbelshe@netscape.com)

Michael Campanella (campanella@stevms.enet.dec.com)

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compiler/cpp/src/parse/t\_field.h  
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compiler/cpp/src/platform.h  
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compiler/cpp/src/thrift.y  
lib/csharp/src/Protocol/TBinaryProtocol.cs  
lib/csharp/src/Protocol/TField.cs  
lib/csharp/src/Protocol/TList.cs  
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```

package spec

```
// License information for the exposed API.
//
// For more information: http://goo.gl/8us55a#licenseObject
type License struct {
    Name string `json:"name,omitempty"`
    URL  string `json:"url,omitempty"`
}
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```

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```
package sacloud
```

```
// License
type License struct {
    *Resource    // ID
    propName    //
    propDescription //
    propCreatedAt //
    propModifiedAt //

    LicenseInfo *ProductLicense `json:",omitempty"` //
}

// GetLicenseInfo
func (l *License) GetLicenseInfo() *ProductLicense {
    return l.LicenseInfo
}

// SetLicenseInfo
func (l *License) SetLicenseInfo(license *ProductLicense) {
    l.LicenseInfo = license
}

// SetLicenseInfoByID
func (l *License) SetLicenseInfoByID(id int64) {
    l.LicenseInfo = &ProductLicense{Resource: NewResource(id)}
}
```

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package api

```
// ProductLicenseAPI API
type ProductLicenseAPI struct {
    *baseAPI
}

// NewProductLicenseAPI API
func NewProductLicenseAPI(client *Client) *ProductLicenseAPI {
    return &ProductLicenseAPI{
        &baseAPI{
            client: client,
            FuncGetResourceURL: func() string {
                return "product/license"
            },
        },
    }
}
```

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Ty Coon, President of Vice
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//

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package github

```

import (
    "context"
    "fmt"
)

// LicensesService handles communication with the license related
// methods of the GitHub API.
//
// GitHub API docs: https://developer.github.com/v3/licenses/
type LicensesService service

// RepositoryLicense represents the license for a repository.
type RepositoryLicense struct {
    Name *string `json:"name,omitempty"`
    Path *string `json:"path,omitempty"`

    SHA      *string `json:"sha,omitempty"`
    Size     *int    `json:"size,omitempty"`
    URL      *string `json:"url,omitempty"`
    HTMLURL  *string `json:"html_url,omitempty"`
    GitURL   *string `json:"git_url,omitempty"`
    DownloadURL *string `json:"download_url,omitempty"`
    Type     *string `json:"type,omitempty"`
    Content  *string `json:"content,omitempty"`
    Encoding *string `json:"encoding,omitempty"`
    License  *License `json:"license,omitempty"`
}

func (l RepositoryLicense) String() string {
    return Stringify(l)
}

// License represents an open source license.
type License struct {
    Key *string `json:"key,omitempty"`
    Name *string `json:"name,omitempty"`
    URL *string `json:"url,omitempty"`

    SPDXID *string `json:"spdx_id,omitempty"`
    HTMLURL *string `json:"html_url,omitempty"`
    Featured *bool `json:"featured,omitempty"`
    Description *string `json:"description,omitempty"`
    Implementation *string `json:"implementation,omitempty"`
    Permissions *[]string `json:"permissions,omitempty"`
    Conditions *[]string `json:"conditions,omitempty"`
    Limitations *[]string `json:"limitations,omitempty"`
    Body *string `json:"body,omitempty"`
}

```

```

}

func (l License) String() string {
    return Stringify(l)
}

// List popular open source licenses.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#list-all-licenses
func (s *LicensesService) List(ctx context.Context) ([]*License, *Response, error) {
    req, err := s.client.NewRequest("GET", "licenses", nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    var licenses []*License
    resp, err := s.client.Do(ctx, req, &licenses)
    if err != nil {
        return nil, resp, err
    }

    return licenses, resp, nil
}

// Get extended metadata for one license.
//
// GitHub API docs: https://developer.github.com/v3/licenses/#get-an-individual-license
func (s *LicensesService) Get(ctx context.Context, licenseName string) (*License, *Response, error) {
    u := fmt.Sprintf("licenses/%s", licenseName)

    req, err := s.client.NewRequest("GET", u, nil)
    if err != nil {
        return nil, nil, err
    }

    // TODO: remove custom Accept header when this API fully launches
    req.Header.Set("Accept", mediaTypeLicensesPreview)

    license := new(License)
    resp, err := s.client.Do(ctx, req, license)
    if err != nil {
        return nil, resp, err
    }

    return license, resp, nil
}

```

}

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```
package api
```

```
/*  
generated by IDE. for [ProductLicenseAPI]  
*/
```

```
import (  
    "github.com/sacloud/libsacloud/sacloud"  
)
```

```
/*  
To support fluent interface for Find()  
*/
```

```
// Reset  
func (api *ProductLicenseAPI) Reset() *ProductLicenseAPI {  
    api.reset()  
    return api  
}
```

```
// Offset  
func (api *ProductLicenseAPI) Offset(offset int) *ProductLicenseAPI {  
    api.offset(offset)  
    return api  
}
```

```
// Limit  
func (api *ProductLicenseAPI) Limit(limit int) *ProductLicenseAPI {  
    api.limit(limit)  
    return api  
}
```

```
// Include  
func (api *ProductLicenseAPI) Include(key string) *ProductLicenseAPI {  
    api.include(key)  
    return api  
}
```

```
// Exclude  
func (api *ProductLicenseAPI) Exclude(key string) *ProductLicenseAPI {  
    api.exclude(key)  
    return api  
}
```

```
// FilterBy  
func (api *ProductLicenseAPI) FilterBy(key string, value interface{}) *ProductLicenseAPI {  
    api.filterBy(key, value, false)  
    return api  
}
```

```

}

// FilterMultiBy ( OR)
func (api *ProductLicenseAPI) FilterMultiBy(key string, value interface{}) *ProductLicenseAPI {
    api.filterBy(key, value, true)
    return api
}

// WithNameLike
func (api *ProductLicenseAPI) WithNameLike(name string) *ProductLicenseAPI {
    return api.FilterBy("Name", name)
}

// WithTag
func (api *ProductLicenseAPI) WithTag(tag string) *ProductLicenseAPI {
    return api.FilterBy("Tags.Name", tag)
}

// WithTags ()
func (api *ProductLicenseAPI) WithTags(tags []string) *ProductLicenseAPI {
    return api.FilterBy("Tags.Name", []interface{}{tags})
}

// func (api *ProductLicenseAPI) WithSizeGib(size int) *ProductLicenseAPI {
//     api.FilterBy("SizeMB", size*1024)
//     return api
// }

// func (api *ProductLicenseAPI) WithSharedScope() *ProductLicenseAPI {
//     api.FilterBy("Scope", "shared")
//     return api
// }

// func (api *ProductLicenseAPI) WithUserScope() *ProductLicenseAPI {
//     api.FilterBy("Scope", "user")
//     return api
// }

// SortBy
func (api *ProductLicenseAPI) SortBy(key string, reverse bool) *ProductLicenseAPI {
    api.sortBy(key, reverse)
    return api
}

// SortByName
func (api *ProductLicenseAPI) SortByName(reverse bool) *ProductLicenseAPI {
    api.sortByName(reverse)
    return api
}

```

```

}

// func (api *ProductLicenseAPI) SortBySize(reverse bool) *ProductLicenseAPI {
// api.sortBy("SizeMB", reverse)
// return api
// }

/*****
To support Setxxx interface for Find()
*****/

// SetEmpty
func (api *ProductLicenseAPI) SetEmpty() {
api.reset()
}

// SetOffset
func (api *ProductLicenseAPI) SetOffset(offset int) {
api.offset(offset)
}

// SetLimit
func (api *ProductLicenseAPI) SetLimit(limit int) {
api.limit(limit)
}

// SetInclude
func (api *ProductLicenseAPI) SetInclude(key string) {
api.include(key)
}

// SetExclude
func (api *ProductLicenseAPI) SetExclude(key string) {
api.exclude(key)
}

// SetFilterBy
func (api *ProductLicenseAPI) SetFilterBy(key string, value interface{}) {
api.filterBy(key, value, false)
}

// SetFilterMultiBy ( OR)
func (api *ProductLicenseAPI) SetFilterMultiBy(key string, value interface{}) {
api.filterBy(key, value, true)
}

// SetNameLike
func (api *ProductLicenseAPI) SetNameLike(name string) {

```



```

    api.FilterBy("Name", name)
}

// SetTag
func (api *ProductLicenseAPI) SetTag(tag string) {
    api.FilterBy("Tags.Name", tag)
}

// SetTags ()
func (api *ProductLicenseAPI) SetTags(tags []string) {
    api.FilterBy("Tags.Name", []interface{}{tags})
}

// func (api *ProductLicenseAPI) SetSizeGib(size int) {
//     api.FilterBy("SizeMB", size*1024)
// }

// func (api *ProductLicenseAPI) SetSharedScope() {
//     api.FilterBy("Scope", "shared")
// }

// func (api *ProductLicenseAPI) SetUserScope() {
//     api.FilterBy("Scope", "user")
// }

// SetSortBy
func (api *ProductLicenseAPI) SetSortBy(key string, reverse bool) {
    api.sortBy(key, reverse)
}

// SetSortByName
func (api *ProductLicenseAPI) SetSortByName(reverse bool) {
    api.sortByName(reverse)
}

// func (api *ProductLicenseAPI) SetSortBySize(reverse bool) {
//     api.sortBy("SizeMB", reverse)
// }

/*****
To support CRUD(Create/Read/Update/Delete)
*****/

// func (api *ProductLicenseAPI) Create(value *sacloud.ProductLicense) (*sacloud.ProductLicense, error) {
//     return api.request(func(res *sacloud.Response) error {
//         return api.create(api.createRequest(value), res)
//     })
// }

```

```

// Read
func (api *ProductLicenseAPI) Read(id int64) (*sacloud.ProductLicense, error) {
    return api.request(func(res *sacloud.Response) error {
        return api.read(id, nil, res)
    })
}

// func (api *ProductLicenseAPI) Update(id int64, value *sacloud.ProductLicense) (*sacloud.ProductLicense, error)
{
// return api.request(func(res *sacloud.Response) error {
// return api.update(id, api.createRequest(value), res)
// })
// }

// func (api *ProductLicenseAPI) Delete(id int64) (*sacloud.ProductLicense, error) {
// return api.request(func(res *sacloud.Response) error {
// return api.delete(id, nil, res)
// })
// }

/*****
Inner functions
*****/

func (api *ProductLicenseAPI) setStateValue(setFunc func(*sacloud.Request)) *ProductLicenseAPI {
    api.baseAPI.setStateValue(setFunc)
    return api
}

func (api *ProductLicenseAPI) request(f func(*sacloud.Response) error) (*sacloud.ProductLicense, error) {
    res := &sacloud.Response{}
    err := f(res)
    if err != nil {
        return nil, err
    }
    return res.LicenseInfo, nil
}

func (api *ProductLicenseAPI) createRequest(value *sacloud.ProductLicense) *sacloud.Request {
    req := &sacloud.Request{}
    req.LicenseInfo = value
    return req
}

```

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fields:
  site: string
  author: root
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```

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package sacloud

```
// ProductLicense
type ProductLicense struct {
    *Resource      // ID
    propName       //
    propServiceClass //
    propCreatedAt  //
    propModifiedAt //
    TermsOfUse     string `json:",omitempty"` //
}

```

Gocheck - A rich testing framework for Go

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```

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```
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```

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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package api

```
/*  
generated by IDE. for [LicenseAPI]  
*/
```

```
import (  
  "github.com/sacloud/libsacloud/sacloud"  
)
```

```
/*  
  To support fluent interface for Find()  
*/
```

```
// Reset  
func (api *LicenseAPI) Reset() *LicenseAPI {  
  api.reset()  
  return api  
}
```

```
// Offset  
func (api *LicenseAPI) Offset(offset int) *LicenseAPI {  
  api.offset(offset)
```

```

return api
}

// Limit
func (api *LicenseAPI) Limit(limit int) *LicenseAPI {
    api.limit(limit)
    return api
}

// Include
func (api *LicenseAPI) Include(key string) *LicenseAPI {
    api.include(key)
    return api
}

// Exclude
func (api *LicenseAPI) Exclude(key string) *LicenseAPI {
    api.exclude(key)
    return api
}

// FilterBy
func (api *LicenseAPI) FilterBy(key string, value interface{}) *LicenseAPI {
    api.filterBy(key, value, false)
    return api
}

// FilterMultiBy ( OR)
func (api *LicenseAPI) FilterMultiBy(key string, value interface{}) *LicenseAPI {
    api.filterBy(key, value, true)
    return api
}

// WithNameLike
func (api *LicenseAPI) WithNameLike(name string) *LicenseAPI {
    return api.FilterBy("Name", name)
}

// WithTag
func (api *LicenseAPI) WithTag(tag string) *LicenseAPI {
    return api.FilterBy("Tags.Name", tag)
}

// WithTags ()
func (api *LicenseAPI) WithTags(tags []string) *LicenseAPI {
    return api.FilterBy("Tags.Name", []interface{}{tags})
}

```

```

// func (api *LicenseAPI) WithSizeGib(size int) *LicenseAPI {
// api.FilterBy("SizeMB", size*1024)
// return api
// }

// func (api *LicenseAPI) WithSharedScope() *LicenseAPI {
// api.FilterBy("Scope", "shared")
// return api
// }

// func (api *LicenseAPI) WithUserScope() *LicenseAPI {
// api.FilterBy("Scope", "user")
// return api
// }

// SortBy
func (api *LicenseAPI) SortBy(key string, reverse bool) *LicenseAPI {
api.sortBy(key, reverse)
return api
}

// SortByName
func (api *LicenseAPI) SortByName(reverse bool) *LicenseAPI {
api.sortByName(reverse)
return api
}

// func (api *LicenseAPI) SortBySize(reverse bool) *LicenseAPI {
// api.sortBy("SizeMB", reverse)
// return api
// }

/*****
To support Setxxx interface for Find()
*****/

// SetEmpty
func (api *LicenseAPI) SetEmpty() {
api.reset()
}

// SetOffset
func (api *LicenseAPI) SetOffset(offset int) {
api.offset(offset)
}

// SetLimit
func (api *LicenseAPI) SetLimit(limit int) {

```

```

api.limit(limit)
}

// SetInclude
func (api *LicenseAPI) SetInclude(key string) {
    api.include(key)
}

// SetExclude
func (api *LicenseAPI) SetExclude(key string) {
    api.exclude(key)
}

// SetFilterBy
func (api *LicenseAPI) SetFilterBy(key string, value interface{}) {
    api.filterBy(key, value, false)
}

// SetFilterMultiBy ( OR)
func (api *LicenseAPI) SetFilterMultiBy(key string, value interface{}) {
    api.filterBy(key, value, true)
}

// SetNameLike
func (api *LicenseAPI) SetNameLike(name string) {
    api.FilterBy("Name", name)
}

// SetTag
func (api *LicenseAPI) SetTag(tag string) {
    api.FilterBy("Tags.Name", tag)
}

// SetTags ()
func (api *LicenseAPI) SetTags(tags []string) {
    api.FilterBy("Tags.Name", []interface{}{tags})
}

// func (api *LicenseAPI) SetSizeGib(size int) {
//     api.FilterBy("SizeMB", size*1024)
// }

// func (api *LicenseAPI) SetSharedScope() {
//     api.FilterBy("Scope", "shared")
// }

// func (api *LicenseAPI) SetUserScope() {
//     api.FilterBy("Scope", "user")

```

```

// }

// SetSortBy
func (api *LicenseAPI) SetSortBy(key string, reverse bool) {
    api.sortBy(key, reverse)
}

// SetSortByName
func (api *LicenseAPI) SetSortByName(reverse bool) {
    api.sortByName(reverse)
}

// func (api *LicenseAPI) SetSortBySize(reverse bool) {
//     api.sortBy("SizeMB", reverse)
// }

/*****
To support CRUD(Create/Read/Update/Delete)
*****/

// New
func (api *LicenseAPI) New() *sacloud.License {
    return &sacloud.License{}
}

// Create
func (api *LicenseAPI) Create(value *sacloud.License) (*sacloud.License, error) {
    return api.request(func(res *sacloud.Response) error {
        return api.create(api.createRequest(value), res)
    })
}

// Read
func (api *LicenseAPI) Read(id int64) (*sacloud.License, error) {
    return api.request(func(res *sacloud.Response) error {
        return api.read(id, nil, res)
    })
}

// Update
func (api *LicenseAPI) Update(id int64, value *sacloud.License) (*sacloud.License, error) {
    return api.request(func(res *sacloud.Response) error {
        return api.update(id, api.createRequest(value), res)
    })
}

// Delete
func (api *LicenseAPI) Delete(id int64) (*sacloud.License, error) {

```

```

return api.request(func(res *sacloud.Response) error {
    return api.delete(id, nil, res)
})
}

/*****

Inner functions

*****/

func (api *LicenseAPI) setStateValue(setFunc func(*sacloud.Request)) *LicenseAPI {
    api.baseAPI.setStateValue(setFunc)
    return api
}

func (api *LicenseAPI) request(f func(*sacloud.Response) error) (*sacloud.License, error) {
    res := &sacloud.Response{}
    err := f(res)
    if err != nil {
        return nil, err
    }
    return res.License, nil
}

func (api *LicenseAPI) createRequest(value *sacloud.License) *sacloud.Request {
    req := &sacloud.Request{}
    req.License = value
    return req
}

```

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Upstream-Contact: Manoj Srivastava <srivasta@debian.org>

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```
import: ../../../../fossene/db/schema/thing.yml
```

```
fields:
```

```
  site: string
```

```
  author: root
```

# 1.124 audit 2.8.2 1ubuntu1

## 1.124.1 Available under license :

Format: <http://www.debian.org/doc/packaging-manuals/copyright-format/1.0/>

Upstream-Name: auditd

Source: <https://people.redhat.com/sgrubb/audit/>

Files: \*

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## 1.125 libffi 3.2.1 8

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## 1.126 xz 5.2.2 1.3

### 1.126.1 Available under license :

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## 1.127 pflag 1.0.5

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# 1.129 libpsl 0.19.1-5build1

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Upstream-Name: libpsl

Source: <https://github.com/rockdaboot/libpsl>

Files: \*

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Files: debian/\*

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Files: src/psl-make-dafsa src/lookup\_string\_in\_fixed\_set.c

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## 1.130 libmnl 1.0.4 r0

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```
Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.
```

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```
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```

```
signature of Ty Coon, 1 April 1989
```

```
Ty Coon, President of Vice
```

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## 1.134 libsemanage 2.7-2build2

### 1.134.1 Available under license :

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This package is maintained by Manoj Srivastava <[srivasta@debian.org](mailto:srivasta@debian.org)>.

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Manoj Srivastava <srivasta@debian.org>  
arch-tag: d4250e44-a0e0-4ee0-adb9-2bd74f6eeb27

# 1.135 perl 5.26.1-6ubuntu0.3

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```
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This is free software, and you are welcome to redistribute it
under certain conditions; type 'show c' for details.
```

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items--whatever suits your program.

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```
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program 'Gnomovision' (a program to direct compilers to make passes
at assemblers) written by James Hacker.
```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

That's all there is to it!

# 1.136 tdb 1.44.1 1ubuntu1.1

## 1.136.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Fri Dec 14 22:24:35 EST 2007

It is part of the main e2fsprogs distribution, which can be found at:

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Upstream Author: Theodore Ts'o <tytso@mit.edu>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

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#

# This is a Makefile stub which handles the creation of BSD shared libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image

real-subdirs:: Makefile

@echo " MKDIR pic"

@mkdir -p pic

BSD\_LIB = \$(BSDLIB\_IMAGE).so.\$(BSDLIB\_VERSION)

BSDLIB\_PIC\_FLAG = -fpic

image: \$(BSD\_LIB)

\$(BSD\_LIB): \$(OBJS)

(cd pic; ld -Bshareable -o \$(BSD\_LIB) \$(LD\_FLAGS\_SHLIB) \$(OBJS))

\$(MV) pic/\$(BSD\_LIB) .

\$(RM) -f ../\$(BSD\_LIB)

(cd ..; \$(LN) \$(LINK\_BUILD\_FLAGS) \

`echo \$(my\_dir) | sed -e 's;lib/;;'/'\$(BSD\_LIB) \$(BSD\_LIB))

install-shlibs install:: \$(BSD\_LIB)

@echo " INSTALL\_PROGRAM \$(BSDLIB\_INSTALL\_DIR)/\$(BSD\_LIB)"

@\$(INSTALL\_PROGRAM) \$(BSD\_LIB) \



```
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDFLAGS)
```

install-strip: install

install-shlibs-strip: install-shlibs

uninstall-shlibs uninstall::

```
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

clean::

```
$(RM) -rf pic
```

```
$(RM) -f $(BSD_LIB)
```

```
$(RM) -f ../$(BSD_LIB)
```

This is the Debian GNU/Linux prepackaged version of the Common Error Description library. It is currently distributed together with the EXT2 file system utilities, which are otherwise packaged as "e2fsprogs".

This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
[tsx-11.mit.edu/pub/linux/packages/ext2fs/](http://tsx-11.mit.edu/pub/linux/packages/ext2fs/)

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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Theodore Ts'o  
23-June-2007

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Index: tdbsa/tdb.c

=====  
--- tdbsa.orig/tdb.c  
+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

\*/

/\*

- Unix SMB/CIFS implementation.
- + trivial database library - standalone version

- trivial database library - private includes

-

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Authors/contributors include:

A. Wilcox  
Alex Dowad

Alexander Monakov  
Andrew Kelley  
Anthony G. Basile  
Arvid Picciani  
Bartosz Brachaczek  
Bobby Bingham  
Boris Brezillon  
Brent Cook  
Chris Spiegel  
Clment Vasseur  
Daniel Micay  
Daniel Sabogal  
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Mahesh Bodapati  
Masanori Ogino  
Michael Forney  
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Natanael Copa  
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Petr Hosek  
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sin  
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Stefan Kristiansson  
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## 1.140 bash 4.4.18 2ubuntu1.2

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@smallexample

@group

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@c Local Variables:

@c ispell-local-pdict: "ispell-dict"

@c End:

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Version 3, 29 June 2007

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## 1.141 slf4j 1.7.7

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Protocol Buffers for Go with Gadgets

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procfs provides functions to retrieve system, kernel and process metrics from the pseudo-filesystem proc.

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# 1.149 pcre 8.39 9

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Since May 20 2000, it is maintained by Roland Bauerschmidt  
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# 1.152 Ibgppgerror 1.27 6

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@c Set file name and title for man page.
@setfilename gpl
@settitle GNU General Public License
@c man begin SEEALSO
gfdl(7), fsf-funding(7).
@c man end
@c man begin COPYRIGHT
Copyright @copyright{ } 2007 Free Software Foundation, Inc.
```

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```
@c man end
@end ignore
@node Copying
@c man begin DESCRIPTION
@unnumbered GNU General Public License
@center Version 3, 29 June 2007
```

```
@c This file is intended to be included in another file.
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```
@display
Copyright @copyright{ } 2007 Free Software Foundation, Inc. @url{http://fsf.org/}
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@end display
```

```
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```
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```

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```
@c man end
```

```
<?xml version="1.0" encoding="UTF-8" standalone="no"?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"><html
xmlns="http://www.w3.org/1999/xhtml"><head><meta http-equiv="Content-Type" content="text/html;
charset=UTF-8" /><title>License</title><meta name="generator" content="DocBook XSL Stylesheets Vsnapshot"
/><meta name="keywords" content="ISO C++, library" /><meta name="keywords" content="ISO C++, runtime,
library" /><link rel="home" href="../index.html" title="The GNU C++ Library" /><link rel="up" href="status.html"
title="Chapter1.Status" /><link rel="prev" href="status.html" title="Chapter1.Status" /><link rel="next"
href="bugs.html" title="Bugs" /></head><body><div class="navheader"><table width="100%"
summary="Navigation header"><tr><th colspan="3" align="center">License</th></tr><tr><td width="20%"
align="left"><a accesskey="p" href="status.html">Prev</a></td><th width="60%"
align="center">Chapter1.Status</th><td width="20%" align="right"><a accesskey="n"
href="bugs.html">Next</a></td></tr></table><hr /></div><div class="section"><div
class="titlepage"><div><div><h2 class="title" style="clear: both"><a
id="manual.intro.status.license"></a>License</h2></div></div></div><p>
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and one for the documentation.
</p><p>
```

```
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href="../faq.html#faq.license">questions</a>. If you have more
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```

list

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phase.Notwithstandingthat,TargetCode doesnotinclude datainany  
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forproducing a compilerintermediaterepresentation.

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non-intermediatelanguagesdesignedforhuman-writtencode,and/orin  
JavaVirtualMachinebytecode,intoTargetCode.Thus,forexample,  
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```
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  xml:id="appendix.gfdl-1.3">
<info><title>GNU Free Documentation License</title></info>
<?dbhtml filename="appendix_gfdl.html"?>
```

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</appendix>

```
/* Definitions for BSD assembler syntax for Intel 386
   (actually AT&T syntax for insns and operands,
   adapted to BSD conventions for symbol names and debugging.)
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```

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```
/* Use the Sequent Symmetry assembler syntax. */
```

```
/* Define the syntax of pseudo-ops, labels and comments. */
```

```
/* Prefix for internally generated assembler labels. If we aren't using
   underscores, we are using prefix `.'s to identify labels that should
   be ignored, as in `i386/gas.h' --karl@cs.umb.edu */
```

```
#define LPREFIX "L"
```

```
/* Assembler pseudos to introduce constants of various size. */
```

```
#define ASM_BYTE "\t.byte\t"
```

```
#define ASM_SHORT "\t.word\t"
```

```
#define ASM_LONG "\t.long\t"
```

```
#define ASM_QUAD "\t.quad\t" /* Should not be used for 32bit compilation. */
```

```
/* This was suggested, but it shouldn't be right for DBX output. -- RMS
```

```
#define ASM_OUTPUT_SOURCE_FILENAME(FILE, NAME) */
```

```
/* Define the syntax of labels and symbol definitions/declarations. */
```

```

/* This is how to output an assembler line
that says to advance the location counter by SIZE bytes. */

#define ASM_OUTPUT_SKIP(FILE,SIZE) \
fprintf (FILE, "\t.space " HOST_WIDE_INT_PRINT_UNSIGNED"\n", (SIZE))

/* Define the syntax of labels and symbol definitions/declarations. */

/* This says how to output an assembler line
to define a global common symbol. */

#define ASM_OUTPUT_COMMON(FILE, NAME, SIZE, ROUNDED) \
( fputs (".comm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

/* This says how to output an assembler line
to define a local common symbol. */

#define ASM_OUTPUT_LOCAL(FILE, NAME, SIZE, ROUNDED) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u\n", (int)(ROUNDED)))

#ifdef HAVE_GAS_LCOMM_WITH_ALIGNMENT
#define ASM_OUTPUT_ALIGNED_LOCAL(FILE, NAME, SIZE, ALIGNMENT) \
( fputs (".lcomm ", (FILE)), \
assemble_name ((FILE), (NAME)), \
fprintf ((FILE), "%u,%u\n", (int)(SIZE), (int)(ALIGNMENT) / BITS_PER_UNIT))
#endif

/* This is how to output an assembler line
that says to advance the location counter
to a multiple of 2**LOG bytes. */

#define ASM_OUTPUT_ALIGN(FILE,LOG) \
if ((LOG)!=0) fprintf ((FILE), "\t.align %d\n", (LOG))

/* This is how to store into the string BUF
the symbol_ref name of an internal numbered label where
PREFIX is the class of label and NUM is the number within the class.
This is suitable for output with `assemble_name'. */

#define ASM_GENERATE_INTERNAL_LABEL(BUF,PREFIX,NUMBER) \
sprintf ((BUF), "%s%ld", (PREFIX), (long)(NUMBER))

/* The prefix to add to user-visible assembler symbols. */

```

```

#define USER_LABEL_PREFIX "_"

/* Sequent has some changes in the format of DBX symbols. */
#define DBX_NO_XREFS 1

/* Don't split DBX symbols into continuations. */
#define DBX_CONTIN_LENGTH 0
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</para>

<para>

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the <acronym>GPL</acronym> to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the <acronym>GPL</acronym>, as needed to protect the freedom of users.

</para>

<para>

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the <acronym>GPL</acronym> assures that patents cannot be used to render the program non-free.

</para>

<para>  
The precise terms and conditions for copying, distribution and modification follow.

</para>

<bridgehead>

TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="gpl-3-definitions" renderas="sect1">

0. Definitions.

</bridgehead>

<para>

This License refers to version 3 of the <acronym>GNU</acronym> General Public License.

</para>

<para>

Copyright also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

</para>

<para>

The Program refers to any copyrightable work licensed under this License. Each licensee is addressed as you. Licensees and recipients may be individuals or organizations.

</para>

<para>

To modify a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a modified version of the earlier work or a work based on the earlier work.

</para>

<para>

A covered work means either the unmodified Program or a work based on the Program.

</para>

<para>

To propagate a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

</para>

<para>

To convey a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

</para>

<para>

An interactive user interface displays Appropriate Legal Notices to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

</para>

<bridgehead xml:id="SourceCode" renderas="sect1">

1. Source Code.

</bridgehead>

<para>

The source code for a work means the preferred form of the work for making modifications to it. Object code means any non-source form of a work.

</para>

<para>

A Standard Interface means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

</para>

<para>

The System Libraries of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A Major Component, in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

</para>

<para>

The Corresponding Source for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the works System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of



the work.

</para>

<para>

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

</para>

<para>

The Corresponding Source for a work in source code form is that same work.

</para>

<bridgehead xml:id="BasicPermissions" renderas="sect1">

2. Basic Permissions.

</bridgehead>

<para>

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

</para>

<para>

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

</para>

<para>

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

</para>

<bridgehead xml:id="Protecting" renderas="sect1">

3. Protecting Users Legal Rights From Anti-Circumvention Law.

</bridgehead>

<para>

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

</para>

<para>

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the works users, your or third parties legal rights to forbid circumvention of technological measures.

</para>

<bridgehead xml:id="ConveyingVerbatim" renderas="sect1">

4. Conveying Verbatim Copies.

</bridgehead>

<para>

You may convey verbatim copies of the Programs source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

</para>

<para>

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

</para>

<bridgehead xml:id="ConveyingModified" renderas="sect1">

5. Conveying Modified Source Versions.

</bridgehead>

<para>

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

The work must carry prominent notices stating that you modified it, and giving a relevant date.

</para>

</listitem>

<listitem>

<para>

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to keep intact all notices.

</para>

</listitem>

<listitem>

<para>

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

</para>

</listitem>

<listitem>

<para>

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

</para>

</listitem>

</orderedlist>

<para>

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an aggregate if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

</para>

<bridgehead xml:id="ConveyingNonSource" renderas="sect1">

6. Conveying Non-Source Forms.

</bridgehead>

<para>

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

</para>

</listitem>

<listitem>

<para>

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

</para>

</listitem>

<listitem>

<para>

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

</para>

</listitem>

<listitem>

<para>

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

</para>

</listitem>

<listitem>

<para>

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

</para>

</listitem>

</orderedlist>

<para>

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in

conveying the object code work.

</para>

<para>

A User Product is either (1) a consumer product, which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product, doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, normally used refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

</para>

<para>

Installation Information for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

</para>

<para>

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in <acronym>ROM</acronym>).

</para>

<para>

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

</para>

<para>

Corresponding Source conveyed, and Installation Information provided, in

accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

</para>

<bridgehead xml:id="AdditionalTerms" renderas="sect1">

7. Additional Terms.

</bridgehead>

<para>

Additional permissions are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

</para>

<para>

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

</para>

<para>

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

</para>

<orderedlist numeration="loweralpha" inheritnum="ignore" continuation="restarts">

<listitem>

<para>

Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or

</para>

</listitem>

<listitem>

<para>

Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

</para>

</listitem>

<listitem>

<para>

Prohibiting misrepresentation of the origin of that material, or

requiring that modified versions of such material be marked in reasonable ways as different from the original version; or

</para>

</listitem>

<listitem>

<para>

Limiting the use for publicity purposes of names of licensors or authors of the material; or

</para>

</listitem>

<listitem>

<para>

Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or

</para>

</listitem>

<listitem>

<para>

Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

</para>

</listitem>

</orderedlist>

<para>

All other non-permissive additional terms are considered further restrictions within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

</para>

<para>

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

</para>

<para>

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

</para>

<bridgehead xml:id="gpl-3-termination" renderas="sect1">

## 8. Termination.

</bridgehead>

<para>

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

</para>

<para>

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

</para>

<para>

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

</para>

<para>

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

</para>

<bridgehead xml:id="AcceptanceNotRequired" renderas="sect1">

## 9. Acceptance Not Required for Having Copies.

</bridgehead>

<para>

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

</para>

<bridgehead xml:id="AutomaticDownstream" renderas="sect1">

## 10. Automatic Licensing of Downstream Recipients.

</bridgehead>

<para>



Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

</para>

<para>

An entity transaction is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

</para>

<para>

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

</para>

<bridgehead xml:id="Patents" renderas="sect1">

11. Patents.

</bridgehead>

<para>

A contributor is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's contributor version.

</para>

<para>

A contributor's essential patent claims are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, control includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

</para>

<para>

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the

contents of its contributor version.

</para>

<para>

In the following three paragraphs, a patent license is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To grant such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

</para>

<para>

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. Knowingly relying means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipients use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

</para>

<para>

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

</para>

<para>

A patent license is discriminatory if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

</para>

<para>

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

</para>

<bridgehead xml:id="NoSurrender" renderas="sect1">

12. No Surrender of Others Freedom.

</bridgehead>

<para>

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

</para>

<bridgehead xml:id="UsedWithAGPL" renderas="sect1">

13. Use with the <acronym>GNU</acronym> Affero General Public License.

</bridgehead>

<para>

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the <acronym>GNU</acronym> Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the <acronym>GNU</acronym> Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

</para>

<bridgehead xml:id="RevisedVersions" renderas="sect1">

14. Revised Versions of this License.

</bridgehead>

<para>

The Free Software Foundation may publish revised and/or new versions of the <acronym>GNU</acronym> General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

</para>

<para>

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the <acronym>GNU</acronym> General Public License or any later version applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the

<acronym>GNU</acronym> General Public License, you may choose any version ever published by the Free Software Foundation.

</para>

<para>

If the Program specifies that a proxy can decide which future versions of the <acronym>GNU</acronym> General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

</para>

<para>

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

</para>

<bridgehead xml:id="WarrantyDisclaimer" renderas="sect1">

15. Disclaimer of Warranty.

</bridgehead>

<para>

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM AS IS WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

</para>

<bridgehead xml:id="LiabilityLimitation" renderas="sect1">

16. Limitation of Liability.

</bridgehead>

<para>

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

</para>

<bridgehead xml:id="InterpretationSecs1516" renderas="sect1">

17. Interpretation of Sections 15 and 16.

</bridgehead>

<para>

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute

waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

</para>

<bridgehead>

END OF TERMS AND CONDITIONS

</bridgehead>

<bridgehead xml:id="HowToApply" renderas="sect1">

How to Apply These Terms to Your New Programs

</bridgehead>

<para>

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

</para>

<para>

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively state the exclusion of warranty; and each file should have at least the copyright line and a pointer to where the full notice is found.

</para>

<screen>

<replaceable>one line to give the programs name and a brief idea of what it does.</replaceable>

Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

This program is free software: you can redistribute it and/or modify it under the terms of the <acronym>GNU</acronym> General Public License as published by the Free Software Foundation, either version 3 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the <acronym>GNU</acronym> General Public License for more details.

You should have received a copy of the <acronym>GNU</acronym> General Public License along with this program. If not, see <link xmlns:xlink="http://www.w3.org/1999/xlink" xlink:href="http://www.gnu.org/licenses/">http://www.gnu.org/licenses/</link>.

</screen>

<para>

Also add information on how to contact you by electronic and paper mail.

</para>

<para>

If the program does terminal interaction, make it output a short notice like this when it starts in an interactive mode:

</para>

<screen>

<replaceable>program</replaceable> Copyright (C) <replaceable>year</replaceable> <replaceable>name of author</replaceable>

This program comes with ABSOLUTELY NO WARRANTY; for details type <literal>show w</literal>.

This is free software, and you are welcome to redistribute it under certain conditions; type <literal>show c</literal> for details.

</screen>

<para>

The hypothetical commands <literal>show w</literal> and <literal>show c</literal> should show the appropriate parts of the General Public License. Of course, your programs commands might be different; for a GUI interface, you would use an about box.

</para>

<para>

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</appendix>

GCC RUNTIME LIBRARY EXCEPTION

Version 3.1, 31 March 2009

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b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more

than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the library's name and a brief idea of what it does.>  
Copyright (C) <year> <name of author>

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

That's all there is to it!

```
.\" Automatically generated by Pod::Man 4.09 (Pod::Simple 3.35)
.\"
.\" Standard preamble:
.\" =====
.de Sp \" Vertical space (when we can't use .PP)
.if t .sp .5v
.if n .sp
..
.de Vb \" Begin verbatim text
.ft CW
.nf
.ne \\$1
..
.de Ve \" End verbatim text
.ft R
.fi
..
.\" Set up some character translations and predefined strings. \*(-- will
.\" give an unbreakable dash, \*(PI will give pi, \*(L" will give a left
.\" double quote, and \*(R" will give a right double quote. \*(C+ will
.\" give a nicer C++. Capital omega is used to do unbreakable dashes and
.\" therefore won't be available. \*(C` and \*(C' expand to ` in nroff,
.\" nothing in troff, for use with C<>.
.tr \(*W-
.ds C+ C\v'-.1v'h'-1p's-2+\h'-1p'+\s0\v'.1v'h'-1p'
.ie n {\
. ds -- \(*W-
. ds PI pi
. if (\n(.H=4u)&(1m=24u) .ds -- \(*W'h'-12u\(\(*W'h'-12u'-\" diablo 10 pitch
. if (\n(.H=4u)&(1m=20u) .ds -- \(*W'h'-12u\(\(*W'h'-8u'-\" diablo 12 pitch
. ds L" ""
. ds R" ""
. ds C` ""
. ds C' ""
'br\}
.el{\
. ds -- \\\(em\
. ds PI \(*p
. ds L" ``
. ds R" "
. ds C`
. ds C'
'br\}
.\"
.\" Escape single quotes in literal strings from groff's Unicode transform.
.ie \n(.g .ds Aq \(\aq
```

```

.el      .ds Aq '
.\"
.\" If the F register is >0, we'll generate index entries on stderr for
.\" titles (.TH), headers (.SH), subsections (.SS), items (.Ip), and index
.\" entries marked with X<> in POD. Of course, you'll have to process the
.\" output yourself in some meaningful fashion.
.\"
.\" Avoid warning from groff about undefined register 'F'.
.de IX
..
.if !\nF .nr F 0
.if \nF>0 {\
.  de IX
.  tm Index:\$1\t\n%t"\$2"
..
.  if !\nF==2 {\
.    nr % 0
.    nr F 2
.  \}
.\}
.\"
.\" Accent mark definitions (@(#)ms.acc 1.5 88/02/08 SMI; from UCB 4.2).
.\" Fear. Run. Save yourself. No user-serviceable parts.
.  \" fudge factors for nroff and troff
.if n {\
.  ds #H 0
.  ds #V .8m
.  ds #F .3m
.  ds #[ \f1
.  ds #] \fP
.\}
.if t {\
.  ds #H ((1u-(\\n(.fu%2u))*13m)
.  ds #V .6m
.  ds #F 0
.  ds #[ \&
.  ds #] \&
.\}
.  \" simple accents for nroff and troff
.if n {\
.  ds ' \&
.  ds ` \&
.  ds ^ \&
.  ds , \&
.  ds ~ ~
.  ds /
.\}
.if t {\

```

```

. ds ` \|k:\h'-(\|n(.wu*8/10-)*(\#H)^\`h'\|n:u'
. ds ^ \|k:\h'-(\|n(.wu*8/10-)*(\#H)^\`h'\|n:u'
. ds ^ \|k:\h'-(\|n(.wu*10/11-)*(\#H)^\`h'\|n:u'
. ds , \|k:\h'-(\|n(.wu*8/10)',h'\|n:u'
. ds ~ \|k:\h'-(\|n(.wu-)*(\#H-.1m)~\h'\|n:u'
. ds / \|k:\h'-(\|n(.wu*8/10-)*(\#H)\z(\sl\h'\|n:u'
.\}

. \| troff and (daisy-wheel) nroff accents
.ds : \|k:\h'-(\|n(.wu*8/10-)*(\#H+.1m+)*(\#F)\v'-)*(\#V)\z.\h'.2m+)*(\#F'.\h'\|n:u'\v'*(#V'
.ds 8 \h'*(\#H'(\#b\h'-)*(\#H'
.ds o \|k:\h'-(\|n(.wu+\w'\(de'u-)*(\#H)/2u'\v'-.3n)*(\#[\z(\de\v'.3n\h'\|n:u'*(#)
.ds d- \h'*(\#H'(\pd\h'-\w'~\u'\v'-.25m'\f2(\hy\fp\v'.25m\h'-)*(\#H'
.ds D- D\|k:\h'-\w'D'u'\v'-.11m'\z(\hy\v'.11m\h'\|n:u'
.ds th \*(#[\v'.3m\s+1I\s-1\v'-.3m\h'-(\w'I'u*2/3)\s-1o\s+1)*(\#)
.ds Th \*(#[\s+2I\s-2\h'-\w'I'u*3/5\v'-.3m'o\v'.3m)*(\#)
.ds ae a\h'-(\w'a'u*4/10)'e
.ds Ae A\h'-(\w'A'u*4/10)'E
. \| corrections for vroff
.if v .ds ~ \|k:\h'-(\|n(.wu*9/10-)*(\#H)\s-2\u~\d\s+2\h'\|n:u'
.if v .ds ^ \|k:\h'-(\|n(.wu*10/11-)*(\#H)\v'-.4m'^\v'.4m\h'\|n:u'
. \| for low resolution devices (crt and lpr)
.if \|n(.H>23 .if \|n(.V>19 \|
\{\
. ds : e
. ds 8 ss
. ds o a
. ds d- d\h'-1\(\ga
. ds D- D\h'-1\(\hy
. ds th \o'bp'
. ds Th \o'LP'
. ds ae ae
. ds Ae AE
.\}
.rm #[ #] #H #V #F C
.\" =====
.\"
.IX Title "GPL 7"
.TH GPL 7 "2018-07-26" "gcc-8.2.0" "GNU"
.\" For nroff, turn off justification. Always turn off hyphenation; it makes
.\" way too many mistakes in technical documents.
.if n .ad l
.nh
.SH "NAME"
gpl \- GNU General Public License
.SH "DESCRIPTION"
.IX Header "DESCRIPTION"
.SS "\s-1GNU\s0 General Public License"
.IX Subsection "GNU General Public License"

```

.SS "Version 3, 29 June 2007"

.IX Subsection "Version 3, 29 June 2007"

.Vb 1

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\&

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.Ve

.SS "Preamble"

.IX Subsection "Preamble"

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.PP

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.PP

When we speak of free software, we are referring to freedom, 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 them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

.PP

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

.PP

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

.PP

Developers that use the \s-1GNU GPL\s0 protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

.PP

For the developers' and authors' protection, the \s-1GPL\s0 clearly explains that there is no warranty for this free software. For both users' and authors' sake, the \s-1GPL\s0 requires that modified versions be marked as

changed, so that their problems will not be attributed erroneously to authors of previous versions.

.PP

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the \s-1GPL\s0 to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the \s-1GPL,\s0 as needed to protect the freedom of users.

.PP

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the \s-1GPL\s0 assures that patents cannot be used to render the program non-free.

.PP

The precise terms and conditions for copying, distribution and modification follow.

.SS "\s-1TERMS AND CONDITIONS\s0"

.IX Subsection "TERMS AND CONDITIONS"

.IP "0. Definitions." 4

.IX Item "0. Definitions."

\&\\*(L"This License\\*(R" refers to version 3 of the \s-1GNU\s0 General Public License.

.Sp

\&\\*(L"Copyright\\*(R" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

.Sp

\&\\*(L"The Program\\*(R" refers to any copyrightable work licensed under this License. Each licensee is addressed as \\*(L"you\\*(R". \\*(L"Licensees\\*(R" and \&\\*(L"recipients\\*(R" may be individuals or organizations.

.Sp

To \\*(L"modify\\*(R" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is called a \\*(L"modified version\\*(R" of the earlier work or a work \\*(L"based on\\*(R" the earlier work.

.Sp

A \\*(L"covered work\\*(R" means either the unmodified Program or a work based on the Program.

.Sp

To \\*(L"propagate\\*(R" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a

computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

.Sp

To \\*(L"convey\\*(R" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

.Sp

An interactive user interface displays \\*(L"Appropriate Legal Notices\\*(R" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

.IP "1. Source Code." 4

.IX Item "1. Source Code."

The \\*(L"source code\\*(R" for a work means the preferred form of the work for making modifications to it. \\*(L"Object code\\*(R" means any non-source form of a work.

.Sp

A \\*(L"Standard Interface\\*(R" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

.Sp

The \\*(L"System Libraries\\*(R" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A \&\\*(L"Major Component\\*(R", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

.Sp

The \\*(L"Corresponding Source\\*(R" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically

linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

.Sp

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

.Sp

The Corresponding Source for a work in source code form is that same work.

.IP "2. Basic Permissions." 4

.IX Item "2. Basic Permissions."

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.Sp

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

.IP "3. Protecting Users' Legal Rights From Anti-Circumvention Law." 4

.IX Item "3. Protecting Users' Legal Rights From Anti-Circumvention Law."

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the \s-1WIPO\s0 copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

.Sp

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.IP "4. Conveying Verbatim Copies." 4

.IX Item "4. Conveying Verbatim Copies."

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

.Sp

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

.IP "5. Conveying Modified Source Versions." 4

.IX Item "5. Conveying Modified Source Versions."

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

.RS 4

.IP "a." 4

.IX Item "a."

The work must carry prominent notices stating that you modified it, and giving a relevant date.

.IP "b." 4

.IX Item "b."

The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to \\*(L"keep intact all notices\\*(R".

.IP "c." 4

.IX Item "c."

You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

.IP "d." 4

.IX Item "d."

If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

.RE

.RS 4

.Sp

A compilation of a covered work with other separate and independent

works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an `&*(L"aggregate"*(R` if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

.RE

.IP "6. Conveying Non-Source Forms." 4

.IX Item "6. Conveying Non-Source Forms."

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

.RS 4

.IP "a." 4

.IX Item "a."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.

.IP "b." 4

.IX Item "b."

Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.

.IP "c." 4

.IX Item "c."

Convey individual copies of the object code with a copy of the written offer to provide the Corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.

.IP "d." 4

.IX Item "d."

Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy

the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.

.IP "e." 4

.IX Item "e."

Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

.RE

.RS 4

.Sp

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

.Sp

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.PP

.Vb 2

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\& Copyright (C) <year> <name of author>

\&

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.PP

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.PP

.Vb 4

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.Ve

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

```
-----  
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#  
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# This script adjusts the copyright notices at the top of source files  
# so that they have the form:  
#  
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#  
# It doesn't change code that is known to be maintained elsewhere or  
# that carries a non-FSF copyright.  
#  
# The script also doesn't change testsuite files, except those in  
# libstdc++-v3. This is because libstdc++-v3 has a conformance testsuite,  
# while most tests in other directories are just things that failed at some  
# point in the past.  
#  
# Pass --this-year to the script if you want it to add the current year  
# to all applicable notices. Pass --quilt if you are using quilt and  
# want files to be added to the quilt before being changed.  
#  
# By default the script will update all directories for which the  
# output has been vetted. You can instead pass the names of individual  
# directories, including those that haven't been approved. So:  
#  
# update-copyright.py --this-year  
#  
# is the command that would be used at the beginning of a year to update  
# all copyright notices (and possibly at other times to check whether  
# new files have been added with old years). On the other hand:  
#  
# update-copyright.py --this-year libitm  
#  
# would run the script on just libitm/.  
#  
# Note that things like --version output strings must be updated before  
# this script is run. There's already a separate procedure for that.
```

```

import os
import re
import sys
import time
import subprocess

class Errors:
    def __init__(self):
        self.num_errors = 0

    def report (self, filename, string):
        if filename:
            string = filename + ': ' + string
            sys.stderr.write (string + '\n')
            self.num_errors += 1

    def ok (self):
        return self.num_errors == 0

class GenericFilter:
    def __init__(self):
        self.skip_files = set()
        self.skip_dirs = set()
        self.skip_extensions = set()
        self.fossilised_files = set()
        self.own_files = set()

    self.skip_files |= set ([
        # Skip licence files.
        'COPYING',
        'COPYING.LIB',
        'COPYING3',
        'COPYING3.LIB',
        'LICENSE',
        'fdl.texi',
        'gpl_v3.texi',
        'fdl-1.3.xml',
        'gpl-3.0.xml',

        # Skip auto- and libtool-related files
        'aclocal.m4',
        'compile',
        'config.guess',
        'config.sub',
        'depcomp',
        'install-sh',
        'libtool.m4',
        'ltmain.sh',

```

```

    'ltoptions.m4',
    'ltsugar.m4',
    'ltversion.m4',
    'lt~obsolete.m4',
    'missing',
    'mkdep',
    'mkinstalldirs',
    'move-if-change',
    'shlibpath.m4',
    'symlink-tree',
    'ylwrap',

    # Skip FSF mission statement, etc.
    'gnu.texi',
    'funding.texi',
    'appendix_free.xml',

    # Skip imported texinfo files.
    'texinfo.tex',
    ])

def get_line_filter (self, dir, filename):
    if filename.startswith ('ChangeLog'):
        # Ignore references to copyright in changelog entries.
        return re.compile ('\t')

    return None

def skip_file (self, dir, filename):
    if filename in self.skip_files:
        return True

    (base, extension) = os.path.splitext (os.path.join (dir, filename))
    if extension in self.skip_extensions:
        return True

    if extension == '.in':
        # Skip .in files produced by automake.
        if os.path.exists (base + '.am'):
            return True

    # Skip files produced by autogen
    if (os.path.exists (base + '.def')
        and os.path.exists (base + '.tpl')):
        return True

    # Skip configure files produced by autoconf

```

```

if filename == 'configure':
    if os.path.exists (base + '.ac'):
        return True
    if os.path.exists (base + '.in'):
        return True

return False

def skip_dir (self, dir, subdir):
    return subdir in self.skip_dirs

def is_fossilised_file (self, dir, filename):
    if filename in self.fossilised_files:
        return True
    # Only touch current current ChangeLogs.
    if filename != 'ChangeLog' and filename.find ('ChangeLog') >= 0:
        return True
    return False

def by_package_author (self, dir, filename):
    return filename in self.own_files

class Copyright:
    def __init__ (self, errors):
        self.errors = errors

    # Characters in a range of years. Include '.' for typos.
    ranges = '[0-9](?:[-0-9.,\s]|\s+and\s+)*[0-9]'

    # Non-whitespace characters in a copyright holder's name.
    name = '[\w.,-]'

    # Matches one year.
    self.year_re = re.compile ('[0-9]+')

    # Matches part of a year or copyright holder.
    self.continuation_re = re.compile (ranges + '|' + name)

    # Matches a full copyright notice:
    self.copyright_re = re.compile (
        # 1: 'Copyright (C)', etc.
        '([Cc]opyright'
        '|[Cc]opyright\s+\([Cc]\)'
        '|[Cc]opyright\s+%s'
        '|[Cc]opyright\s+&copy;'
        '|[Cc]opyright\s+@copyright{ }'
        '|copyright = u\'
        '|@set\s+copyright[\w-]+)'

```



```

# 2: the years. Include the whitespace in the year, so that
# we can remove any excess.
'\s*(?:' + ranges + ',?)'
'|@value\{[^\{]*\}\s*)'

# 3: 'by ', if used
'(by\s+)?'

# 4: the copyright holder. Don't allow multiple consecutive
# spaces, so that right-margin gloss doesn't get caught
# (e.g. gnat_ugn.texi).
>(' + name + '(?:\s? + name + ')*?)?)

# A regexp for notices that might have slipped by. Just matching
# 'copyright' is too noisy, and 'copyright.*[0-9]' falls foul of
# HTML header markers, so check for 'copyright' and two digits.
self.other_copyright_re = re.compile ('copyright.*[0-9][0-9]',
                                     re.IGNORECASE)
self.comment_re = re.compile('#+|[*]+;+|%+//+|@c |dnl ')
self.holders = { '@copying': '@copying' }
self.holder_prefixes = set()

# True to 'quilt add' files before changing them.
self.use_quilt = False

# If set, force all notices to include this year.
self.max_year = None

# Goes after the year(s). Could be ', '.
self.separator = ''

def add_package_author (self, holder, canon_form = None):
    if not canon_form:
        canon_form = holder
    self.holders[holder] = canon_form
    index = holder.find (' ')
    while index >= 0:
        self.holder_prefixes.add (holder[:index])
        index = holder.find (' ', index + 1)

def add_external_author (self, holder):
    self.holders[holder] = None

class BadYear():
    def __init__ (self, year):
        self.year = year

```

```

def __str__(self):
    return 'unrecognised year: ' + self.year

def parse_year (self, string):
    year = int (string)
    if len (string) == 2:
        if year > 70:
            return year + 1900
    elif len (string) == 4:
        return year
    raise self.BadYear (string)

def year_range (self, years):
    year_list = [self.parse_year (year)
                 for year in self.year_re.findall (years)]
    assert len (year_list) > 0
    return (min (year_list), max (year_list))

def set_use_quilt (self, use_quilt):
    self.use_quilt = use_quilt

def include_year (self, year):
    assert not self.max_year
    self.max_year = year

def canonicalise_years (self, dir, filename, filter, years):
    # Leave texinfo variables alone.
    if years.startswith ('@value'):
        return years

    (min_year, max_year) = self.year_range (years)

    # Update the upper bound, if enabled.
    if self.max_year and not filter.is_fossilised_file (dir, filename):
        max_year = max (max_year, self.max_year)

    # Use a range.
    if min_year == max_year:
        return '%d' % min_year
    else:
        return '%d-%d' % (min_year, max_year)

def strip_continuation (self, line):
    line = line.lstrip()
    match = self.comment_re.match (line)
    if match:
        line = line[match.end():].lstrip()
    return line

```

```

def is_complete (self, match):
    holder = match.group (4)
    return (holder
            and (holder not in self.holder_prefixes
                or holder in self.holders))

def update_copyright (self, dir, filename, filter, file, line, match):
    orig_line = line
    next_line = None
    pathname = os.path.join (dir, filename)

    intro = match.group (1)
    if intro.startswith ('@set'):
        # Texinfo year variables should always be on one line
        after_years = line[match.end (2):].strip()
        if after_years != "":
            self.errors.report (pathname,
                                'trailing characters in @set: '
                                + after_years)
            return (False, orig_line, next_line)
    else:
        # If it looks like the copyright is incomplete, add the next line.
        while not self.is_complete (match):
            try:
                next_line = file.next()
            except StopIteration:
                break

            # If the next line doesn't look like a proper continuation,
            # assume that what we've got is complete.
            continuation = self.strip_continuation (next_line)
            if not self.continuation_re.match (continuation):
                break

            # Merge the lines for matching purposes.
            orig_line += next_line
            line = line.rstrip() + ' ' + continuation
            next_line = None

            # Rematch with the longer line, at the original position.
            match = self.copyright_re.match (line, match.start())
            assert match

    holder = match.group (4)

    # Use the filter to test cases where markup is getting in the way.
    if filter.by_package_author (dir, filename):

```

```

    assert holder not in self.holders

elif not holder:
    self.errors.report (pathname, 'missing copyright holder')
    return (False, orig_line, next_line)

elif holder not in self.holders:
    self.errors.report (pathname,
                        'unrecognised copyright holder: ' + holder)
    return (False, orig_line, next_line)

else:
    # See whether the copyright is associated with the package
    # author.
    canon_form = self.holders[holder]
    if not canon_form:
        return (False, orig_line, next_line)

    # Make sure the author is given in a consistent way.
    line = (line[:match.start (4)]
           + canon_form
           + line[match.end (4):])

    # Remove any 'by'
    line = line[:match.start (3)] + line[match.end (3):]

# Update the copyright years.
years = match.group (2).strip()
try:
    canon_form = self.canonicalise_years (dir, filename, filter, years)
except self.BadYear as e:
    self.errors.report (pathname, str (e))
    return (False, orig_line, next_line)

line = (line[:match.start (2)]
       + (" if intro.startswith ('copyright = ') else ' ')
       + canon_form + self.separator
       + line[match.end (2):])

# Use the standard (C) form.
if intro.endswith ('right'):
    intro += ' (C)'
elif intro.endswith (('c')):
    intro = intro[:-3] + '(C)'
line = line[:match.start (1)] + intro + line[match.end (1):]

# Strip trailing whitespace
line = line.rstrip() + '\n'

```

```

return (line != orig_line, line, next_line)

def process_file (self, dir, filename, filter):
    pathname = os.path.join (dir, filename)
    if filename.endswith ('.tmp'):
        # Looks like something we tried to create before.
        try:
            os.remove (pathname)
        except OSError:
            pass
        return

    lines = []
    changed = False
    line_filter = filter.get_line_filter (dir, filename)
    mode = None
    with open (pathname, 'r') as file:
        prev = None
        mode = os.fstat (file.fileno()).st_mode
        for line in file:
            while line:
                next_line = None
                # Leave filtered-out lines alone.
                if not (line_filter and line_filter.match (line)):
                    match = self.copyright_re.search (line)
                    if match:
                        res = self.update_copyright (dir, filename, filter,
                                                    file, line, match)
                        (this_changed, line, next_line) = res
                        changed = changed or this_changed

                # Check for copyright lines that might have slipped by.
                elif self.other_copyright_re.search (line):
                    self.errors.report (pathname,
                                        'unrecognised copyright: %s'
                                        % line.strip())
                lines.append (line)
                line = next_line

    # If something changed, write the new file out.
    if changed and self.errors.ok():
        tmp_pathname = pathname + '.tmp'
        with open (tmp_pathname, 'w') as file:
            for line in lines:
                file.write (line)
            os.fchmod (file.fileno(), mode)
        if self.use_quilt:

```

```

        subprocess.call(['quilt', 'add', pathname])
    os.rename(tmp_pathname, pathname)

def process_tree(self, tree, filter):
    for (dir, subdirs, filenames) in os.walk(tree):
        # Don't recurse through directories that should be skipped.
        for i in xrange(len(subdirs) - 1, -1, -1):
            if filter.skip_dir(dir, subdirs[i]):
                del subdirs[i]

        # Handle the files in this directory.
        for filename in filenames:
            if filter.skip_file(dir, filename):
                sys.stdout.write('Skipping %s\n'
                                % os.path.join(dir, filename))
            else:
                self.process_file(dir, filename, filter)

class CmdLine:
    def __init__(self, copyright = Copyright):
        self.errors = Errors()
        self.copyright = copyright(self.errors)
        self.dirs = []
        self.default_dirs = []
        self.chosen_dirs = []
        self.option_handlers = dict()
        self.option_help = []

        self.add_option('--help', 'Print this help', self.o_help)
        self.add_option('--quilt', '"quilt add" files before changing them',
                        self.o_quilt)
        self.add_option('--this-year', 'Add the current year to every notice',
                        self.o_this_year)

    def add_option(self, name, help, handler):
        self.option_help.append((name, help))
        self.option_handlers[name] = handler

    def add_dir(self, dir, filter = GenericFilter()):
        self.dirs.append((dir, filter))

    def o_help(self, option = None):
        sys.stdout.write('Usage: %s [options] dir1 dir2...\n\n'
                        'Options:\n' % sys.argv[0])
        format = '%-15s %s\n'
        for (what, help) in self.option_help:
            sys.stdout.write(format % (what, help))
        sys.stdout.write('\nDirectories:\n')

```

```

format = '%-25s'
i = 0
for (dir, filter) in self.dirs:
    i += 1
    if i % 3 == 0 or i == len (self.dirs):
        sys.stdout.write (dir + '\n')
    else:
        sys.stdout.write (format % dir)
sys.exit (0)

def o_quilt (self, option):
    self.copyright.set_use_quilt (True)

def o_this_year (self, option):
    self.copyright.include_year (time.localtime().tm_year)

def main (self):
    for arg in sys.argv[1:]:
        if arg[1] != '-':
            self.chosen_dirs.append (arg)
        elif arg in self.option_handlers:
            self.option_handlers[arg] (arg)
        else:
            self.errors.report (None, 'unrecognised option: ' + arg)
    if self.errors.ok():
        if len (self.chosen_dirs) == 0:
            self.chosen_dirs = self.default_dirs
        if len (self.chosen_dirs) == 0:
            self.o_help()
        else:
            for chosen_dir in self.chosen_dirs:
                canon_dir = os.path.join (chosen_dir, "")
                count = 0
                for (dir, filter) in self.dirs:
                    if (dir + os.sep).startswith (canon_dir):
                        count += 1
                        self.copyright.process_tree (dir, filter)
                if count == 0:
                    self.errors.report (None, 'unrecognised directory: '
                                        + chosen_dir)
    sys.exit (0 if self.errors.ok() else 1)

#-----

class TopLevelFilter (GenericFilter):
    def skip_dir (self, dir, subdir):
        return True

```

```

class ConfigFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

    def skip_file (self, dir, filename):
        if filename.endswith ('.m4'):
            pathname = os.path.join (dir, filename)
            with open (pathname) as file:
                # Skip files imported from gettext.
                if file.readline().find ('gettext-') >= 0:
                    return True
            return GenericFilter.skip_file (self, dir, filename)

class GCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_files |= set ([
            # Not part of GCC
            'math-68881.h',
        ])

        self.skip_dirs |= set ([
            # Better not create a merge nightmare for the GNAT folks.
            'ada',

            # Handled separately.
            'testsuite',
        ])

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

        self.fossilised_files |= set ([
            # Old news won't be updated.
            'ONEWS',
        ])

class TestsuiteFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

```



```

self.skip_extensions |= set ([
    # Don't change the tests, which could be woened by anyone.
    '.c',
    '.C',
    '.cc',
    '.h',
    '.hs',
    '.f',
    '.f90',
    '.go',
    '.inc',
    '.java',
])

```

```

def skip_file (self, dir, filename):
    # g++.niklas/README contains historical copyright information
    # and isn't updated.
    if filename == 'README' and os.path.basename (dir) == 'g++.niklas':
        return True
    # Similarly params/README.
    if filename == 'README' and os.path.basename (dir) == 'params':
        return True
    if filename == 'pdt_5.f03' and os.path.basename (dir) == 'gfortran.dg':
        return True
    return GenericFilter.skip_file (self, dir, filename)

```

```

class LibCppFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_extensions |= set ([
            # Maintained by the translation project.
            '.po',

            # Automatically-generated.
            '.pot',
        ])

```

```

class LibGCCFilter (GenericFilter):
    def __init__ (self):
        GenericFilter.__init__ (self)

        self.skip_dirs |= set ([
            # Imported from GLIBC.
            'soft-fp',
        ])

```

```

class LibStdCxxFilter (GenericFilter):

```

```

def __init__(self):
    GenericFilter.__init__(self)

    self.skip_files |= set ([
        # Contains no copyright of its own, but quotes the GPL.
        'intro.xml',
    ])

    self.skip_dirs |= set ([
        # Contains automatically-generated sources.
        'html',

        # The testsuite data files shouldn't be changed.
        'data',

        # Contains imported images
        'images',
    ])

    self.own_files |= set ([
        # Contains markup around the copyright owner.
        'spine.xml',
    ])

def get_line_filter (self, dir, filename):
    if filename == 'boost_concept_check.h':
        return re.compile ('// \\\(C\\\) Copyright Jeremy Siek')
    return GenericFilter.get_line_filter (self, dir, filename)

class GCCCopyright (Copyright):
    def __init__(self, errors):
        Copyright.__init__(self, errors)

        canon_fsf = 'Free Software Foundation, Inc.'
        self.add_package_author ('Free Software Foundation', canon_fsf)
        self.add_package_author ('Free Software Foundation.', canon_fsf)
        self.add_package_author ('Free Software Foundation Inc.', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc', canon_fsf)
        self.add_package_author ('Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('The Free Software Foundation', canon_fsf)
        self.add_package_author ('The Free Software Foundation, Inc.', canon_fsf)
        self.add_package_author ('Software Foundation, Inc.', canon_fsf)

        self.add_external_author ('ARM')
        self.add_external_author ('AdaCore')
        self.add_external_author ('Ami Tavory and Vladimir Dreizin, IBM-HRL.')
        self.add_external_author ('Cavium Networks.')
        self.add_external_author ('Faraday Technology Corp.')

```

```

self.add_external_author ('Florida State University')
self.add_external_author ('Greg Colvin and Beman Dawes.')
self.add_external_author ('Hewlett-Packard Company')
self.add_external_author ('Intel Corporation')
self.add_external_author ('Information Technology Industry Council.')
self.add_external_author ('James Theiler, Brian Gough')
self.add_external_author ('Makoto Matsumoto and Takuji Nishimura,')
self.add_external_author ('National Research Council of Canada.')
self.add_external_author ('NVIDIA Corporation')
self.add_external_author ('Peter Dimov and Multi Media Ltd.')
self.add_external_author ('Peter Dimov')
self.add_external_author ('Pipeline Associates, Inc.')
self.add_external_author ('Regents of the University of California.')
self.add_external_author ('Silicon Graphics Computer Systems, Inc.')
self.add_external_author ('Silicon Graphics')
self.add_external_author ('Stephen L. Moshier')
self.add_external_author ('Sun Microsystems, Inc. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors. All rights reserved.')
self.add_external_author ('The Go Authors.')
self.add_external_author ('The Regents of the University of California.')
self.add_external_author ('Unicode, Inc.')
self.add_external_author ('University of Toronto.')

```

```
class GCCCmdLine (CmdLine):
```

```

def __init__ (self):
    CmdLine.__init__ (self, GCCCopyright)

    self.add_dir ('.', TopLevelFilter())
    # Boehm-gc is imported from upstream.
    self.add_dir ('config', ConfigFilter())
    # contrib isn't really part of GCC.
    self.add_dir ('fixincludes')
    self.add_dir ('gcc', GCCFilter())
    self.add_dir (os.path.join ('gcc', 'testsuite'), TestSuiteFilter())
    self.add_dir ('gnattools')
    self.add_dir ('gotools')
    self.add_dir ('include')
    # intl is imported from upstream.
    self.add_dir ('libada')
    self.add_dir ('libatomic')
    self.add_dir ('libbacktrace')
    self.add_dir ('libcc1')
    self.add_dir ('libcpp', LibCppFilter())
    self.add_dir ('libdecnumber')
    # libffi is imported from upstream.
    self.add_dir ('libgcc', LibGCCFilter())
    self.add_dir ('libgfortran')

```

```
# libgo is imported from upstream.
self.add_dir ('libgomp')
self.add_dir ('libhsail-rt')
self.add_dir ('libiberty')
self.add_dir ('libitm')
self.add_dir ('libobjc')
# liboffloadmic is imported from upstream.
self.add_dir ('libquadmath')
# libsanitizer is imported from upstream.
self.add_dir ('libssp')
self.add_dir ('libstdc++-v3', LibStdCxxFilter())
self.add_dir ('libvtv')
self.add_dir ('lto-plugin')
# maintainer-scripts maintainer-scripts
# zlib is imported from upstream.
```

```
self.default_dirs = [
    'gcc',
    'include',
    'libada',
    'libatomic',
    'libbacktrace',
    'libcc1',
    'libcpp',
    'libdecnumber',
    'libgcc',
    'libgfortran',
    'libgomp',
    'libhsail-rt',
    'libiberty',
    'libitm',
    'libobjc',
    'libssp',
    'libstdc++-v3',
    'libvtv',
    'lto-plugin',
]
```

GCCCmdLine().main()

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Version 3, 29 June 2007

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# 1.158 tar 1.29b 2ubuntu0.1

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# 1.159 gettext 2.27 3ubuntu1

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Version 3, 29 June 2007

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@end smallexample

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@smallexample

Gnomovision version 69, Copyright (C) @var{year} @var{name of author}

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@example

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@var{signature of Ty Coon}, 1 April 1989

Ty Coon, President of Vice

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## 1.163 jsonpb 1.3.2

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    </module2copyright>
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      <option name="fileTypeOverride" value="3" />
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<component name="CopyrightManager">
  <copyright>
    <option name="notice" value="Copyright &#36;today.year Google Inc. All Rights
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    <option name="allowReplaceKeyword" value="" />
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  </copyright>
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```

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1986 Gary S. Brown

1990 Gordon Irlam (gordoni@cs.ua.oz.au)

1991, 1992 Linus Torvalds

1991-2004 Miquel van Smoorenburg

1992 A. V. Le Blanc (LeBlanc@mcc.ac.uk)

1992-1997 Michael K. Johnson, johnsonm@redhat.com

1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,

2003, 2004, 2005, 2008 Theodore Ts'o <tytso@mit.edu>

1994 Kevin E. Martin (martin@cs.unc.edu)

1994 Salvatore Valente <svalente@mit.edu>

1994,1996 Alessandro Rubini (rubini@ipvvis.unipv.it)

1994-2005 Jeff Tranter (tranter@pobox.com)

1995, 1999, 2000 Andries E. Brouwer <aeb@cwi.nl>

1997-2005 Frodo Looijaard <frodo@frodo.looijaard.name>

1998 Danek Duvall <duvall@alumni.princeton.edu>

1999 Andreas Dilger

1999-2002 Transmeta Corporation

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2000 Werner Almesberger

2004-2006 Michael Holzt, kju -at- fqdn.org

2005 Adrian Bunk

2007-2014 Karel Zak <kzak@redhat.com>

2007, 2011 SuSE LINUX Products GmbH

2008 Cai Qian <qcai@redhat.com>

2008 Hayden A. James (hayden.james@gmail.com)

2008 James Youngman <jay@gnu.org>

2008 Roy Peled, the.roy.peled -at- gmail.com

2009 Mikhail Gusarov <dottedmag@dottedmag.net>

2010, 2011, 2012 Davidlohr Bueso <dave@gnu.org>

2010 Jason Borden <jborden@bluehost.com>A

2010 Hajime Taira <htaira@redhat.com>

2010 Masatake Yamato <yamato@redhat.com>

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2012 Andy Lutomirski <luto@amacapital.net>

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      lib/blkdev.c  
      lib/loopdev.c  
      lib/sysfs.c  
      lib/ttyutils.c  
      lib/xgetpass.c  
      misc-utils/mcookie.c  
      sys-utils/setuid.c  
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      misc-utils/cal.c  
      misc-utils/kill.c  
      misc-utils/logger.c  
      misc-utils/look.c  
      misc-utils/whereis.c  
      sys-utils/renice.c  
      term-utils/mesg.c  
      term-utils/script.c

term-utils/ttymsg.c  
term-utils/wall.c  
term-utils/write.c  
text-utils/col.c  
text-utils/colcrt.c  
text-utils/colrm.c  
text-utils/column.c  
text-utils/hexdump.c  
text-utils/hexdump.h  
text-utils/hexdump-conv.c  
text-utils/hexdump-display.c  
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include/xalloc.h

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## 1.169 ca-certificates 20171114-r4

## 1.170 base-passwd 3.5.44

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Format-Specification: <http://svn.debian.org/wsvn/dep/web/deps/dep5.mdwn?op=file&rev=135>

Name: base-passwd

Maintainer: Colin Watson <cjwatson@debian.org>

Files: update-passwd.c, man/\*

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# 1.172 libressl 2.7.5-r0

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```
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```
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Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.
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under certain conditions; type `show c' for details.
```

The hypothetical commands `show w' and `show c' should show the appropriate  
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```
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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
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The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However, in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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Version 2.1, February 1999

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# 1.176 helm-tiller 2.12.3 v2.12.3

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## 1.178 readline 7.0 3

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set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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# 1.181 prometheus-client 1.1.0

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## 1.184 spring-context 5.0.2

## 1.185 httpcomponents-core 4.3.2

### 1.185.1 Available under license :

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## 1.186 j2objc-annotations 1.1

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From network\_io/unix/inet\_ntop.c, network\_io/unix/inet\_pton.c:

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From strings/apr\_strnatcmp.c, include/apr\_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.  
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From strings/apr\_snprintf.c:

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* cvt - IEEE floating point formatting routines.  
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- \* file name: UBiDiProps.java
- \* encoding: US-ASCII
- \* tab size: 8 (not used)
- \* indentation:4
- \*
- \* created on: 2005jan16
- \* created by: Markus W. Scherer
- \*
- \* Low-level Unicode bidi/shaping properties access.
- \* Java port of ubidi\_props.h/c.

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<code>Replaceable</code> is an interface representing a string of characters that supports the replacement of a range of itself with a new string of characters. It is used by APIs that change a piece of text while retaining metadata. Metadata is data other than the Unicode characters returned by `char32At()`. One example of metadata is style attributes; another is an edit history, marking each character with an author and revision number.

<p>An implicit aspect of the <code>Replaceable</code> API is that during a replace operation, new characters take on the metadata of the old characters. For example, if the string "the <b>bold</b> font" has range (4, 8) replaced with "strong", then it becomes "the <b>strong</b> font".

<p><code>Replaceable</code> specifies ranges using a start offset and a limit offset. The range of characters thus specified includes the characters at offset start..limit-1. That is, the start offset is inclusive, and the limit offset is exclusive.

<p><code>Replaceable</code> also includes API to access characters in the string: <code>length()</code>, <code>charAt()</code>, <code>char32At()</code>, and <code>extractBetween()</code>.

<p>For a subclass to support metadata, typical behavior of <code>replace()</code> is the following:

<ul>

<li>Set the metadata of the new text to the metadata of the first character replaced</li>

<li>If no characters are replaced, use the metadata of the previous character</li>

<li>If there is no previous character (i.e. start == 0), use the following character</li>

<li>If there is no following character (i.e. the replaceable was empty), use default metadata<br>

<li>If the code point U+FFFF is seen, it should be interpreted as a special marker having no metadata</li>

</li>

</ul>

If this is not the behavior, the subclass should document any differences.

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@author Alan Liu

@stable ICU 2.0

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<code>ReplaceableString</code> is an adapter class that implements the <code>Replaceable</code> API around an ordinary <code>StringBuffer</code>.

<p><em>Note:</em> This class does not support attributes and is not intended for general use. Most clients will need to implement { @link Replaceable } in their text representation class.

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@see Replaceable

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```

*/

package java.security;

import java.io.Serializable;

/**
 * Legacy security code; do not use.
 */
public abstract class Permission implements Guard, Serializable {
    public Permission(String name) { }

    public final String getName() { return null; }

    public void checkGuard(Object obj) throws SecurityException { }

    public PermissionCollection newPermissionCollection() {
        return new AllPermissionCollection();
    }

    public abstract String getActions();

    public abstract boolean implies(Permission permission);
}

```

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Upstream-Contact: Yann Collet <Cyan4973@github.com>

Source: <https://github.com/lz4/lz4>

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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see `init_nicstar()` for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather lists

\* (`skb->atm.iovcnt != 0`) for Rx skb's passed to `vcc->push`.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave `<small_buffer_data>` bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) `skb->destructor / skb->atm.recycle_buffer`

\* combined, allow `nicstar_free_rx_skb` to be called to

\* recycle large data buffers

\* 2) `skb_clone` of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation  
\* details.  
\*  
\*  
\*  
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\*  
\* M. Welsh, 6 July 1996  
\*  
\*  
\*/

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QLogic Linux FC-FCoE Driver

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 Dennis Noermann <dennis.noermann@noernet.de>,  
 Felix Domke <tmbinc@elitedvb.net>,  
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single nxt200x frontend driver.

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```
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```
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```

```
#define __LICENSE_H
```

```
static inline int license_is_gpl_compatible(const char *license)
```

```
{
```

```
return (strcmp(license, "GPL") == 0
```

```
|| strcmp(license, "GPL v2") == 0
```

```
|| strcmp(license, "GPL and additional rights") == 0
```

```
|| strcmp(license, "Dual BSD/GPL") == 0
```

```
|| strcmp(license, "Dual MIT/GPL") == 0
```

```
|| strcmp(license, "Dual MPL/GPL") == 0);
```

}

#endif

.. -\*- coding: utf-8; mode: rst -\*-

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\*\*\*\*\*

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@vskip 20pt plus 1fil  
@end macro
```

```
@macro copyrightstart{ }  
@end macro
```

```
@macro copyrightend{ }  
@end macro
```

```
@node Copyrights and Licenses, , Acknowledgments, Top  
@comment node-name, next, previous, up  
@appendix Copyrights and Licenses
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@item GSS-API CFX, SPNEGO, naming extensions, API extensions.

@item KCM credential cache.

@item HDB LDAP backend.

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@heading Vincent Rijmen, Antoon Bosselaers, Paulo Barreto

AES in libhcrypto

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rijndael-alg-fst.c

@version 3.0 (December 2000)

Optimised ANSI C code for the Rijndael cipher (now AES)

@author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>

@author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>

@author Paulo Barreto <paulo.barreto@terra.com.br>

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DES core in libcrypto

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D3DES (V5.09) -

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Thanks to: Dan Hoey for his excellent Initial and Inverse permutation code; Jim Gillogly & Phil Karn for the DES key schedule code; Dennis Ferguson, Eric Young and Dana How for comparing notes; and Ray Lau, for humouring me on.

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Windows support

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```

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```

```
<html>
```

```
<head>
```

```
<title>Berkeley DB: Berkeley DB Product License</title>
```

```
<meta name="description" content="Berkeley DB: An embedded database programmatic toolkit.">
```

```
<meta name="keywords"
```

```
content="embedded,database,programmatic,toolkit,btree,hash,hashing,transaction,transactions,locking,logging,access method,access methods,Java,C,C++">
```

```
</head>
```

```
<body bgcolor=white>
```

```
<p align=center><b>Berkeley DB Product License</b></p>
```

```
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<a href="mailto:berkeleydb-info_us@oracle.com">berkeleydb-info_us@oracle.com</a>.</p>
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<p><font size=1>Copyright (c) 1996, 2013 Oracle and/or its affiliates. All rights reserved.</font>
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```
</body>
```

```
</html>
```

```
/*-
```

```
* $Id$
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*/
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\* ASM: a very small and fast Java bytecode manipulation framework

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## 1.195 google-uuid 1.1.1

### 1.195.1 Available under license :

Paul Borman <borman@google.com>

bmatsuo

shawnps

theory

jboverfelt

dsymonds

cd1

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## 1.198 keyutils 1.5.9 9.2ubuntu2

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## 1.205 libx11 1.6.4-3ubuntu0.1

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## 1.210 jq 1.6\_rc1-r1

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## 1.215 pam 1.1.8 3.6ubuntu2

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-----  
Patch for Ubuntu bug #399071

Display the contents of /etc/legal as part of the MOTD, the first time the user logs in, and set a flag in the user's homedir if possible to prevent repeat displays.

Authors: Dustin Kirkland <kirkland@canonical.com>

Upstream status: Ubuntu-specific, maybe submit to Debian

Index: pam.ubuntu/modules/pam\_motd/pam\_motd.c

```
=====
--- pam.ubuntu.orig/modules/pam_motd/pam_motd.c
+++ pam.ubuntu/modules/pam_motd/pam_motd.c
@@ -73,6 +73,61 @@
 close(fd);
 }

+int display_legal(pam_handle_t *pamh)
+{
+ int retval = PAM_IGNORE, rc;
+ char *user = NULL;
+ char *dir = NULL;
+ char *flag = NULL;
+ struct passwd *pwd = NULL;
+ struct stat s;
+ int f;
+ /* Get the user name to determine if we need to print the disclaimer */
+ rc = pam_get_item(pamh, PAM_USER, &user);
+ if (rc == PAM_SUCCESS && user != NULL && *(const char *)user != '\0')
+ {
+ PAM_MODUTIL_DEF_PRIVS(privs);
+
+ /* Get the password entry */
+ pwd = pam_modutil_getpwnam (pamh, user);
+ if (pwd != NULL)
+ {
+ if (pam_modutil_drop_priv(pamh, &privs, pwd)) {
+ pam_syslog(pamh, LOG_ERR,
+ "Unable to change UID to %d temporarily\n",
+ pwd->pw_uid);
+ retval = PAM_SESSION_ERR;
+ goto finished;
+ }
+
+ if (asprintf(&dir, "%s/.cache", pwd->pw_dir) == -1 || !dir)
+ goto finished;
+ if (asprintf(&flag, "%s/motd.legal-displayed", dir) == -1 || !flag)
+ goto finished;
+
+ if (stat(flag, &s) != 0)
+ {
+ display_file(pamh, "/etc/legal");
+ mkdir(dir, 0700);
+ f = open(flag, O_WRONLY|O_CREAT|O_EXCL,
+ S_IRUSR|S_IWUSR|S_IRGRP|S_IROTH);

```



```

+         if (f>=0) close(f);
+     }
+
+finished:
+     if (pam_modutil_regain_priv(pamh, &privs)) {
+         pam_syslog(pamh, LOG_ERR,
+             "Unable to change UID back to %d\n", privs.old_uid);
+         retval = PAM_SESSION_ERR;
+     }
+
+     _pam_drop(flag);
+     _pam_drop(dir);
+ }
+ }
+ return retval;
+}
+
PAM_EXTERN
int pam_sm_open_session(pam_handle_t *pamh, int flags,
    int argc, const char **argv)
@@ -116,6 +171,9 @@
    /* Display the updated motd */
    display_file(pamh, motd_path);

+ /* Display the legal disclaimer only if necessary */
+ retval = display_legal(pamh);
+
    return retval;
}

```

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```
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```

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```

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The End

```
#!/perl
```

```
=head1 NAME
```

```
copyright.t
```

```
=head1 DESCRIPTION
```

Tests that the latest copyright years in the top-level README file and the C<perl -v> output match each other.

If the test fails, update at least one of README and perl.c so that they match reality.

Optionally you can pass the C<--now> option to check they are at the current year. This isn't checked by default, so that it doesn't fail for people working on older releases. It should be run before making a new release.

```
=cut
```

```
use strict;
```

```
use Config;
```

```
BEGIN { require './test.pl' }
```

```
if ( $Config{usecrosscompile} ) {
```

```
    skip_all( "Not all files are available during cross-compilation" );
```

```
}
```

```
my ($opt) = @ARGV;
```

```

my $readme_year = readme_year();
my $v_year = v_year();

# Check that both copyright dates are up-to-date, but only if requested, so
# that tests still pass for people intentionally working on older versions:
if ($opt eq '--now')
{
    my $current_year = (gmtime)[5] + 1900;
    is $v_year, $current_year, 'perl -v copyright includes current year';
    is $readme_year, $current_year, 'README copyright includes current year';
}

# Otherwise simply check that the two copyright dates match each other:
else
{
    is $readme_year, $v_year, 'README and perl -v copyright dates match';
}

done_testing;

sub readme_year
# returns the latest copyright year from the top-level README file
{

    open my $readme, '<', './README' or die "Opening README failed: $!";

    # The copyright message is the first paragraph:
    local $/ = "";
    my $copyright_msg = <$readme>;

    my ($year) = $copyright_msg =~ /\b(\d{4,})/s
        or die "Year not found in README copyright message '$copyright_msg'";

    $year;
}

sub v_year
# returns the latest copyright year shown in perl -v
{

    my $output = runperl switches => ['-v'];
    my ($year) = $output =~ /copyright 1987.\b(\d{4,})/i
        or die "Copyright statement not found in perl -v output '$output'";

    $year;
}

```

}

-----  
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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

-----  
---  
abstract: 'Build and install Perl modules'

author:

- 'Ken Williams <kwilliams@cpan.org>'

- "Development questions, bug reports, and patches should be sent to the\nModule-Build mailing list at <module-

build@perl.org>."  
build\_requires:  
File::Temp: 0.15  
Test::Harness: 3.16  
Test::More: 0.49  
generated\_by: 'Module::Build version 0.3608'  
license: gpl  
meta-spec:  
url: http://module-build.sourceforge.net/META-spec-v1.4.html  
version: 1.4  
name: Module-Build  
resources:  
MailingList: mailto:module-build@perl.org  
license: http://dev.perl.org/licenses/  
repository: http://github.com/dagolden/module-build/  
version: 3

# 1.217 open-ssl 1.1.0g 2ubuntu4.3

## 1.217.1 Available under license :

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