

R&S®BBA300

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Version 4.0.0

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1 Introduction

This product uses a number of open source software packages which are listed in the section "[Software packages](#)" on page 6.

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- The software contained in this product makes use of the following open source software packages.

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abbrev	1.1.1	ISC License
accepts	1.3.3	MIT License
accepts	1.3.8	MIT License
acl	2.3.1	GNU Lesser General Public License v2.1 or later AND GNU General Public License v2.0 or later
after	0.8.2	MIT License
agent-base	6.0.2	MIT License
ajv	6.12.6	MIT License
angular/animations	11.0.9	MIT License
angular/cdk	10.2.7	MIT License
angular/common	11.0.9	MIT License
angular/compiler	11.0.9	MIT License
angular/core	11.0.9	MIT License
angular/flex-layout	10.0.0-beta.32	MIT License
angular/forms	11.0.9	MIT License
angular/material	10.2.7	MIT License
angular/platform-browser	11.0.9	MIT License
angular/platform-browser-dynamic	11.0.9	MIT License
angular/router	11.0.9	MIT License
ansi-regex	5.0.1	MIT License
ansi-styles	4.3.0	MIT License
append-field	1.0.0	MIT License
aproba	2.0.0	ISC License
are-we-there-yet	2.0.0	ISC License
array-flatten	1.1.1	MIT License
array-from	2.1.1	MIT License
arraybuffer.slice	0.0.6	MIT License

Package	Version	License
arraybuffer.slice	0.0.7	MIT License
asn1	0.2.6	MIT License
assert-plus	1.0.0	MIT License
async	1.0.0	MIT License
async	0.1.22	MIT License
async	3.2.4	MIT License
async-exit-hook	2.0.1	MIT License
async-limiter	1.0.1	MIT License
asynckit	0.4.0	MIT License
attr	2.5.1	GNU Lesser General Public License v2.1 or later AND GNU General Public License v2.0 or later
aws-sign2	0.7.0	Apache License 2.0
aws4	1.12.0	MIT License
axios	0.21.4	MIT License
azure-iot-sdk-c	2022.07	MIT License
backo2	1.0.2	MIT License
balanced-match	1.0.2	MIT License
base-files	3.0.14	GNU General Public License v2.0 only
base-passwd	3.5.29	GNU General Public License v2.0 only
base64-array-buffer	0.1.5	MIT License
base64id	1.0.0	MIT License
bash	5.1.16	GNU General Public License v3.0 or later
bcrypt	5.0.1	MIT License
bcrypt-pbkdf	1.0.2	BSD 3-clause "New" or "Revised" License
bcryptjs	2.4.3	MIT License
better-assert	1.0.2	MIT License
binutils	2.38	GNU General Public License v3.0 only
blob	0.0.4	MIT License
blob	0.0.5	MIT License
bluebird	3.7.2	MIT License
body-parser	1.18.3	MIT License
body-parser	1.19.2	MIT License
body-parser	1.20.1	MIT License

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body-parser	1.20.2	MIT License
boost	1.78.0	Boost Software License 1.0 AND MIT License AND Python License 2.0
brace-expansion	1.1.11	MIT License
brace-expansion	2.0.1	MIT License
brotli	1.0.9	MIT License
buffer-equal-con- stant-time	1.0.1	BSD 3-clause "New" or "Revised" License
buffer-from	1.1.2	MIT License
busboy	1.6.0	MIT License
busybox	1.35.0	GNU General Public License v2.0 only AND bzip2 and libbzip2 License
bytes	3.0.0	MIT License
bytes	3.1.2	MIT License
bzip2	1.0.8	bzip2 and libbzip2 License AND GNU General Public License v3.0 or later AND Apache License 2.0 AND Microsoft Public License AND BSD 3-clause "New" or "Revised" License AND zlib License
c-ares	1.18.1	MIT License
call-bind	1.0.2	MIT License
callsite	1.0.0	MIT License
caseless	0.12.0	Apache License 2.0
chalk	4.1.2	MIT License
chart.js	2.9.3	MIT License
chartjs-color	2.4.1	MIT License
chartjs-color- string	0.6.0	MIT License
chownr	2.0.0	ISC License
clipboard	2.0.11	MIT License
cliui	8.0.1	ISC License
cluster-key-slot	1.1.2	Apache License 2.0
cmdparser	0.0.3	MIT License
color-convert	1.9.3	MIT License

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color-convert	2.0.1	MIT License
color-name	1.1.3	MIT License
color-name	1.1.4	MIT License
color-support	1.1.3	ISC License
colors	1.0.3	MIT License
combined-stream	1.0.8	MIT License
component-bind	1.0.0	MIT License
component-emitter	1.1.2	MIT License
component-emitter	1.2.1	MIT License
component-inherit	0.0.3	MIT License
concat-map	0.0.1	MIT License
concat-stream	1.6.2	MIT License
config	3.3.8	MIT License
console-control-strings	1.1.0	ISC License
content-disposition	0.5.2	MIT License
content-disposition	0.5.4	MIT License
content-type	1.0.5	MIT License
cookie	0.3.1	MIT License
cookie	0.4.0	MIT License
cookie	0.4.1	MIT License
cookie	0.4.2	MIT License
cookie	0.5.0	MIT License
cookie-parser	1.4.3	MIT License
cookie-parser	1.4.6	MIT License
cookie-signature	1.0.6	MIT License
core-js	3.29.0	MIT License
core-js	2.5.7	MIT License
core-js	2.4.1	MIT License
core-util-is	1.0.2	MIT License

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core-util-is	1.0.3	MIT License
cross-env	7.0.3	MIT License
cross-spawn	7.0.3	MIT License
csrf	3.1.0	MIT License
csurf	1.11.0	MIT License
curl	7.82.0	curl License
cxx-prettyprint	2014	Boost Software License 1.0
cycle	1.0.3	Custom: https://github.com/douglascrockford/JSON-js
d	1.0.1	ISC License
dashdash	1.14.1	MIT License
dateformat	3.0.3	MIT License
dbus	1.14.8	Academic Free License v2.1 OR GNU General Public License v2.0 or later
debug	2.2.0	MIT License
debug	2.3.3	MIT License
debug	2.6.9	MIT License
debug	3.1.0	MIT License
debug	4.3.4	MIT License
debug	4.1.1	MIT License
debug	3.0.1	MIT License
delayed-stream	1.0.0	MIT License
delegate	3.2.0	MIT License
delegates	1.0.0	MIT License
denque	1.5.1	Apache License 2.0
depd	1.1.2	MIT License
depd	2.0.0	MIT License
destroy	1.0.4	MIT License
destroy	1.2.0	MIT License
detect-libc	2.0.1	Apache License 2.0
devmem2	2.0	GNU General Public License v2.0 or later
dropbear	2020.81	MIT License AND BSD 3-clause "New" or "Revised" License AND BSD 2-clause "Simplified" License AND PD

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ecdsa-sig-formatter	1.0.11	Apache License 2.0
ee-first	1.1.1	MIT License
ejs	3.1.8	Apache License 2.0
elfutils	0.186	GNU General Public License v2.0 only AND GNU General Public License v2.0 or later AND GNU Lesser General Public License v3.0 or later AND GNU General Public License v3.0 or later
emitter-component	1.1.1	Custom: https://travis-ci.org/component/emitter.png
emoji-regex	8.0.0	MIT License
encodeurl	1.0.2	MIT License
engine.io	1.8.5	MIT License
engine.io-client	1.8.6	MIT License
engine.io-client	3.2.1	MIT License
engine.io-parser	1.3.2	MIT License
engine.io-parser	2.1.3	MIT License
es5-ext	0.10.62	ISC License
es6-iterator	2.0.3	MIT License
es6-map	0.1.5	MIT License
es6-set	0.1.6	ISC License
es6-symbol	3.1.3	ISC License
escalade	3.1.1	MIT License
escape-html	1.0.3	MIT License
etag	1.8.1	MIT License
ethtool	5.16	GNU General Public License v2.0 or later
event-emitter	0.3.5	MIT License
expat	2.5.0	MIT License
express	4.16.4	MIT License
express	4.17.3	MIT License
express	4.18.2	MIT License

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express-jwt	8.0.0	MIT License
express-partials	0.3.0	MIT License
express-unless	2.1.3	MIT License
ext	1.7.0	ISC License
extend	3.0.2	MIT License
extsprintf	1.3.0	MIT License
eyes	0.1.8	MIT License
f2fs-tools	1.14.0	GNU General Public License v2.0 only
fast-deep-equal	3.1.3	MIT License
fast-json-stable-stringify	2.1.0	MIT License
file	5.41	BSD 2-clause "Simplified" License
filelist	1.0.4	Apache License 2.0
finalhandler	1.1.1	MIT License
finalhandler	1.1.2	MIT License
finalhandler	1.2.0	MIT License
flexbuffer	0.0.6	Custom: https://github.com/mercadolibre/flexbuffer-node/blob/master/test/tests.js
focus-visible	5.2.0	W3C
follow-redirects	1.15.2	MIT License
forever-agent	0.6.1	Apache License 2.0
form-data	2.3.3	MIT License
form-data	4.0.0	MIT License
fortawesome/ angular-fontawesome	0.8.1	MIT License
fortawesome/ fontawesome-common-types	0.2.36	MIT License
fortawesome/ fontawesome-svg-core	1.2.34	MIT License
fortawesome/ free-solid-svg-icons	5.11.2	((CC-BY-4.0 AND MIT License)
forwarded	0.2.0	MIT License
fresh	0.5.2	MIT License
fs-minipass	2.1.0	ISC License

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fs.realpath	1.0.0	ISC License
function-bind	1.1.1	MIT License
gauge	3.0.2	ISC License
gcc-runtime	11.4.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1
gdb	11.2	GNU General Public License v2.0 only AND GNU General Public License v3.0 only AND GNU Library General Public License v2 only AND GNU Lesser General Public License v3.0 only
generate-function	2.3.1	MIT License
generate-object-property	1.2.0	MIT License
get-caller-file	2.0.5	ISC License
get-intrinsic	1.2.1	MIT License
get-intrinsic	1.2.0	MIT License
getpass	0.1.7	MIT License
glibc	2.35	GNU General Public License v2.0 only AND GNU Lesser General Public License v2.1 only
glob	7.2.3	ISC License
gmp	6.2.1	GNU General Public License v2.0 or later OR GNU Lesser General Public License v3.0 or later
gnutls	3.7.4	GNU General Public License v3.0 or later AND GNU Lesser General Public License v2.1 or later
good-listener	1.2.2	MIT License
graceful-fs	4.2.11	ISC License
GSL	2.0.0	MIT License
har-schema	2.0.0	ISC License
har-validator	5.1.5	MIT License
has	1.0.3	MIT License
has-binary	0.1.7	MIT License
has-binary2	1.0.3	MIT License
has-cors	1.1.0	MIT License
has-flag	4.0.0	MIT License
has-proto	1.0.1	MIT License
has-symbols	1.0.3	MIT License

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htop	3.2.2	GNU General Public License v2.0 only
http-errors	1.6.3	MIT License
http-errors	1.7.3	MIT License
http-errors	1.8.1	MIT License
http-errors	2.0.0	MIT License
http-signature	1.2.0	MIT License
https-proxy-agent	5.0.1	MIT License
i2c-tools	4.3	GNU General Public License v2.0 or later
iconv-lite	0.4.23	MIT License
iconv-lite	0.4.24	MIT License
icu	70.1	ICU License
idlejs	2.0.1	MIT License
indexof	0.0.1	MIT License
inflection	1.13.4	MIT License
inflight	1.0.6	ISC License
inherits	2.0.3	ISC License
inherits	2.0.4	ISC License
ioredis	3.2.2	MIT License
ioredis	4.28.5	MIT License
ioredis-mock	4.7.0	MIT License
ip-regex	4.3.0	MIT License
ipaddr.js	1.9.1	MIT License
iperf3	3.14	BSD 3-clause "New" or "Revised" License
iptables	1.8.7	GNU General Public License v2.0 or later
is-fullwidth-code-point	3.0.0	MIT License
is-ip	3.1.0	MIT License
is-my-ip-valid	1.0.1	MIT License
is-my-ip-valid	1.0.0	MIT License
is-my-json-valid	2.20.5	MIT License
is-my-json-valid	2.20.6	MIT License
is-my-json-valid	2.17.2	MIT License

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is-property	1.0.2	MIT License
is-typedarray	1.0.0	MIT License
is-utf8	0.2.1	MIT License
isarray	0.0.1	MIT License
isarray	1.0.0	MIT License
isarray	2.0.1	MIT License
isexe	2.0.0	ISC License
isstream	0.1.2	MIT License
jake	10.8.5	Apache License 2.0
jq	1.6+gitAUTOINC+a9f97e9e61	MIT License
jquery	3.6.4	MIT License
jquery.json-viewer	1.5.0	MIT License
jsbn	0.1.1	MIT License
json-c	0.15	MIT License
json-schema	0.4.0	((AFL-2.1 OR BSD 3-clause "New" or "Revised" License)
json-schema-traverse	0.4.1	MIT License
json-stringify-safe	5.0.1	ISC License
json3	3.3.2	MIT License
json5	2.2.3	MIT License
jsoncons	0.168.1	Boost Software License 1.0
jsoncpp	1.9.5-rs	MIT License
jsonpointer	4.1.0	MIT License
jsonpointer	5.0.1	MIT License
jsonwebtoken	9.0.0	MIT License
jsonwebtoken	8.5.1	MIT License
jsprim	1.4.2	MIT License
jstree	3.3.12	MIT License
jwa	1.4.1	MIT License
jws	3.2.2	MIT License

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ldapts	2.11.1	MIT License
libarchive	3.6.2	BSD 2-clause "Simplified" License
libcap	2.66	BSD 3-clause "New" or "Revised" License OR GNU General Public License v2.0 only
libgcc	11.4.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1 AND GNU General Public License v3.0 only
libidn2	2.3.2	(GNU General Public License v2.0 or later OR GNU Lesser General Public License v3.0) AND GNU General Public License v3.0 or later AND Unicode License Agreement - Data Files and Software (2016)
libmicrohttpd	0.9.76	GNU Lesser General Public License v2.1 or later
libmnl	1.0.4	GNU Lesser General Public License v2.1 or later
libnl	3.5.0	GNU Lesser General Public License v2.1 only
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libsolv	0.7.22	BSD 3-clause "New" or "Revised" License
libubootenv	0.3.2	GNU Lesser General Public License v2.1 only
libunistring	1.0	GNU Lesser General Public License v3.0 or later OR GNU General Public License v2.0 or later
libunwind	1.6.2	MIT License
libusb1	1.0.26	GNU Lesser General Public License v2.1 or later
libxcrypt	4.4.30	GNU Lesser General Public License v2.1 only
libxml2	2.9.14	MIT License
linux-xlnx	5.15.36-xilinx- v2022.2+gitAU- TOINC +7484228ddb	GNU General Public License v2.0 only
lit	2.0.2	BSD 3-clause "New" or "Revised" License
lit-element	3.0.2	BSD 3-clause "New" or "Revised" License
lit-html	2.0.2	BSD 3-clause "New" or "Revised" License
lit-labs/scoped- registry-mixin	1.0.0	BSD 3-clause "New" or "Revised" License

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lit/reactive-element	1.0.2	BSD 3-clause "New" or "Revised" License
lodash	4.17.11	MIT License
lodash	4.17.21	MIT License
lodash-es	4.17.21	MIT License
lodash.assign	4.2.0	MIT License
lodash.bind	4.2.1	MIT License
lodash.clone	4.5.0	MIT License
lodash.clone-deep	4.5.0	MIT License
lodash.defaults	4.2.0	MIT License
lodash.difference	4.5.0	MIT License
lodash.flatten	4.4.0	MIT License
lodash.foreach	4.5.0	MIT License
lodash.includes	4.3.0	MIT License
lodash.isarguments	3.1.0	MIT License
lodash.isboolean	3.0.3	MIT License
lodash.isEmpty	4.4.0	MIT License
lodash.isequal	4.5.0	MIT License
lodash.isinteger	4.0.4	MIT License
lodash.isnumber	3.0.3	MIT License
lodash.isplainobject	4.0.6	MIT License
lodash.isstring	4.0.1	MIT License
lodash.keys	4.2.0	MIT License
lodash.noop	3.0.1	MIT License
lodash.once	4.1.1	MIT License
lodash.partial	4.2.1	MIT License
lodash.pick	4.4.0	MIT License
lodash.sample	4.2.1	MIT License
lodash.shuffle	4.2.0	MIT License
lodash.values	4.3.0	MIT License
lossless-json	1.0.5	MIT License
lowdb	1.0.0	MIT License

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lru-cache	6.0.0	ISC License
lscache	1.3.0	Apache License 2.0
lsof	4.94.0	Spencer License 94
ltrace	7.91+gitAU-TOINC+c22d359433	GNU General Public License v2.0 only
luxon	1.25.0	MIT License
luxon	3.3.0	MIT License
lz4	1.9.4	BSD 2-clause "Simplified" License OR GNU General Public License v2.0 only
lzo	2.10	GNU General Public License v2.0 or later
make-dir	3.1.0	MIT License
makedumpfile	1.7.1	GNU General Public License v2.0 only
mapbox/node-pre-gyp	1.0.10	BSD 3-clause "New" or "Revised" License
mdio-netlink	1.2.0	GNU General Public License v2.0 or later
mdio-tools	1.2.0	GNU General Public License v2.0 or later
media-typer	0.3.0	MIT License
mementester	4.5.1	GNU General Public License v2.0 only
merge-descriptors	1.0.1	MIT License
methods	1.1.2	MIT License
mime	1.4.1	MIT License
mime	1.6.0	MIT License
mime-db	1.52.0	MIT License
mime-types	2.1.35	MIT License
minimatch	3.1.2	ISC License
minimatch	5.1.6	ISC License
minimist	0.0.8	MIT License
minimist	1.2.8	MIT License
minipass	3.3.6	ISC License
minipass	4.2.5	ISC License
minizlib	2.1.2	MIT License
mkdirp	0.5.1	MIT License
mkdirp	0.5.6	MIT License

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mkdirp	1.0.4	MIT License
moment	2.29.1	MIT License
ms	0.7.1	MIT License
ms	0.7.2	MIT License
ms	2.0.0	MIT License
ms	2.1.2	MIT License
ms	2.1.3	MIT License
mtd-utils	2.1.5	GNU General Public License v2.0 or later
multer	1.4.5-lts.1	MIT License
ncp	2.0.0	MIT License
ncurses	6.3+20220423	MIT License
negotiator	0.6.1	MIT License
negotiator	0.6.3	MIT License
net-tools	2.10	GNU General Public License v2.0 or later
netbase	6.3	GNU General Public License v2.0 only
nettle	3.7.3	GNU Lesser General Public License v3.0 or later OR GNU General Public License v2.0 or later
next-tick	1.1.0	ISC License
ng2-charts	2.3.3	ISC License
nginx	1.20.1	BSD 2-clause "Simplified" License
ngx-cookie-service	2.1.0	MIT License
ngx-logger	4.1.9	MIT License
ngx-toastr	12.1.0	MIT License
node-addon-api	3.2.1	MIT License
node-fetch	2.6.9	MIT License
node-redis-dump2	0.5.0	MIT License
nodejs	16.20.2	MIT License AND ISC License AND BSD 2-clause "Simplified" License AND BSD 3-clause "New" or "Revised" License AND Artistic License 2.0 AND OpenSSL License
nopt	5.0.0	ISC License
npmlog	5.0.1	ISC License

Package	Version	License
oauth-sign	0.9.0	Apache License 2.0
object-assign	4.1.0	MIT License
object-assign	4.1.1	MIT License
object-component	0.0.3	MIT License
object-inspect	1.12.3	MIT License
on-finished	2.3.0	MIT License
on-finished	2.4.1	MIT License
once	1.4.0	ISC License
onig	6.9.4	BSD 2-clause "Simplified" License
opener	1.5.2	((WTFPL OR MIT License)
openssh	8.9p1	BSD 2-clause "Simplified" License AND BSD 3-clause "New" or "Revised" License AND ISC License AND MIT License
openssl	3.0.10	Apache License 2.0
openssl	1.0.2h	OpenSSL License
opkg	0.5.0	GNU General Public License v2.0 or later
opkg-arch-config	1.0	MIT License
opkg-utils	0.5.0	GNU General Public License v2.0 or later
options	0.0.6	MIT License
os-release	1.0	MIT License
p-map	2.1.0	MIT License
packagegroup-core-ssh-dropbear	1.0	MIT License
paho-mqtt-c	1.3.10	Eclipse Public License - v 2.0 OR BSD 3-clause "New" or "Revised" License
paho-mqtt-cpp	1.2.0	Eclipse Public License - v 1.0 OR BSD 3-clause "New" or "Revised" License
parse5	5.1.1	MIT License
parsejson	0.0.3	MIT License
parseqs	0.0.5	MIT License
parseuri	0.0.5	MIT License
parseurl	1.3.3	MIT License

Package	Version	License
path-is-absolute	1.0.1	MIT License
path-key	3.1.1	MIT License
path-to-regexp	0.1.7	MIT License
pciutils	3.7.0	GNU General Public License v2.0 or later
perf	1.0	GNU General Public License v2.0 only
performance-now	2.1.0	MIT License
perl	5.34.1	Artistic License 1.0 OR GNU General Public License v1.0 or later
phytool	2+gitAUTOINC +8882328c08	GNU General Public License v2.0 only
pify	3.0.0	MIT License
process-nextick-args	2.0.1	MIT License
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Version 3.0, 18 August 2009

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3.13 GCC Runtime Library exception 3.1

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Version 3.1, 31 March 2009

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```
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```

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```
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written by James Hacker.
```

```
&lt;signature of Ty Coon&gt;, 1 April 1989 Ty Coon, President of Vice
```

```
That's all there is to it!
```

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[This is the first released version of the library GPL. It is

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Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- a) The modified work must itself be a software library.
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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(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.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

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.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

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.

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of

this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under 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) 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.
- c) 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.
- d) 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 source code 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:

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Version 2.1, February 1999

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

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

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

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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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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

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- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under 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.
- 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.
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