

# R&S<sup>®</sup>BBx

## BBx Software

### Open Source Acknowledgment



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Version 2.3.1

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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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## 2 Software packages

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

Package	Version	License
abbrev	1.1.1	ISC License
accepts	1.3.3	MIT License
accepts	1.3.8	MIT License
acl	2.2.53	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
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
arraybuffer.slice	0.0.7	MIT License

Package	Version	License
asap	2.0.6	<a href="#">MIT License</a>
asn1	0.2.6	<a href="#">MIT License</a>
async	1.0.0	<a href="#">MIT License</a>
async	0.1.22	<a href="#">MIT License</a>
async	3.2.4	<a href="#">MIT License</a>
async-exit-hook	2.0.1	<a href="#">MIT License</a>
async-limiter	1.0.1	<a href="#">MIT License</a>
asynckit	0.4.0	<a href="#">MIT License</a>
attr	2.4.48	<a href="#">GNU Lesser General Public License v2.1 or later</a> AND <a href="#">GNU General Public License v2.0 or later</a>
axios	0.21.1	<a href="#">MIT License</a>
azure-iot-sdk-c	2021.01	<a href="#">MIT License</a>
backo2	1.0.2	<a href="#">MIT License</a>
balanced-match	1.0.2	<a href="#">MIT License</a>
base-files	3.0.14	<a href="#">GNU General Public License v2.0</a>
base-passwd	3.5.29	<a href="#">GNU General Public License v2.0</a>
base64-array-buffer	0.1.5	<a href="#">MIT License</a>
base64id	1.0.0	<a href="#">MIT License</a>
bash	5.0	<a href="#">GNU General Public License v3.0 or later</a>
bcrypt	5.0.1	<a href="#">MIT License</a>
bcryptjs	2.4.3	<a href="#">MIT License</a>
better-assert	1.0.2	<a href="#">MIT License</a>
binutils	2.34	<a href="#">GNU General Public License v3.0</a>
blob	0.0.4	<a href="#">MIT License</a>
blob	0.0.5	<a href="#">MIT License</a>
bluebird	3.7.2	<a href="#">MIT License</a>
body-parser	1.18.3	<a href="#">MIT License</a>
body-parser	1.19.2	<a href="#">MIT License</a>
body-parser	1.20.1	<a href="#">MIT License</a>
body-parser	1.20.2	<a href="#">MIT License</a>
boost	1.72.0	<a href="#">Boost Software License 1.0</a> AND <a href="#">MIT License</a> AND <a href="#">Python License 2.0</a>

Package	Version	License
brace-expansion	1.1.11	<a href="#">MIT License</a>
brace-expansion	2.0.1	<a href="#">MIT License</a>
broccoli	1.0.7	<a href="#">MIT License</a>
buffer-equal-constant-time	1.0.1	<a href="#">BSD 3-clause "New" or "Revised" License</a>
buffer-from	1.1.2	<a href="#">MIT License</a>
busboy	1.6.0	<a href="#">MIT License</a>
busybox	1.31.1	<a href="#">GNU General Public License v2.0 AND bzip2 and libbzip2 License</a>
bytes	3.0.0	<a href="#">MIT License</a>
bytes	3.1.2	<a href="#">MIT License</a>
bzip2	1.0.8	<a href="#">bzip2 and libbzip2 License</a>
c-ares	1.16.1+gitrAU-TOINC+74a1426ba6	<a href="#">MIT License</a>
call-bind	1.0.2	<a href="#">MIT License</a>
callsite	1.0.0	<a href="#">MIT License</a>
chalk	4.1.2	<a href="#">MIT License</a>
chart.js	2.9.3	<a href="#">MIT License</a>
chartjs-color	2.4.1	<a href="#">MIT License</a>
chartjs-color-string	0.6.0	<a href="#">MIT License</a>
chownr	2.0.0	<a href="#">ISC License</a>
clipboard	2.0.11	<a href="#">MIT License</a>
cliui	8.0.1	<a href="#">ISC License</a>
cluster-key-slot	1.1.2	<a href="#">Apache License 2.0</a>
cmdparser	0.0.3	<a href="#">MIT License</a>
color-convert	1.9.3	<a href="#">MIT License</a>
color-convert	2.0.1	<a href="#">MIT License</a>
color-name	1.1.3	<a href="#">MIT License</a>
color-name	1.1.4	<a href="#">MIT License</a>
color-support	1.1.3	<a href="#">ISC License</a>
colors	1.0.3	<a href="#">MIT License</a>
combined-stream	1.0.8	<a href="#">MIT License</a>
component-bind	1.0.0	<a href="#">MIT License</a>



Package	Version	License
component-emit-ter	1.1.2	MIT License
component-emit-ter	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-disposi-tion	0.5.2	MIT License
content-disposi-tion	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	1.0.3	MIT License
cross-env	7.0.3	MIT License
cross-spawn	7.0.3	MIT License
csrf	3.1.0	MIT License
csrf	1.11.0	MIT License
curl	7.69.1	MIT License
cxx-prettyprint	2014	Boost Software License 1.0
cycle	1.0.3	Custom: <a href="https://github.com/douglascrockford/JSON-js">https://github.com/douglascrockford/JSON-js</a>
d	1.0.1	ISC License

Package	Version	License
dateformat	3.0.3	MIT License
dbus	1.12.20	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	1.0	GNU General Public License v2.0 or later
dezalgo	1.0.4	ISC License
dropbear	2019.78	MIT License AND BSD 3-clause "New" or "Revised" License AND BSD 2-clause "Simplified" License AND PD
e2fsprogs	1.45.7	GNU General Public License v2.0 AND GNU Library General Public License v2 AND BSD 3-clause "New" or "Revised" License AND MIT License
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	0.178	GNU General Public License v2.0 AND GNU Lesser General Public License v3.0 or later AND GNU General Public License v3.0 or later

Package	Version	License
emitter-component	1.1.1	Custom: <a href="https://travis-ci.org/component/emitter.png">https://travis-ci.org/component/emitter.png</a>
emoji-regex	8.0.0	<a href="#">MIT License</a>
encodeurl	1.0.2	<a href="#">MIT License</a>
engine.io	1.8.5	<a href="#">MIT License</a>
engine.io-client	1.8.6	<a href="#">MIT License</a>
engine.io-client	3.2.1	<a href="#">MIT License</a>
engine.io-parser	1.3.2	<a href="#">MIT License</a>
engine.io-parser	2.1.3	<a href="#">MIT License</a>
es5-ext	0.10.62	<a href="#">ISC License</a>
es6-iterator	2.0.3	<a href="#">MIT License</a>
es6-map	0.1.5	<a href="#">MIT License</a>
es6-set	0.1.6	<a href="#">ISC License</a>
es6-symbol	3.1.3	<a href="#">ISC License</a>
escalade	3.1.1	<a href="#">MIT License</a>
escape-html	1.0.3	<a href="#">MIT License</a>
etag	1.8.1	<a href="#">MIT License</a>
ethhtool	5.4	<a href="#">GNU General Public License v2.0</a> or later
event-emitter	0.3.5	<a href="#">MIT License</a>
expat	2.2.9	<a href="#">MIT License</a>
express	4.16.4	<a href="#">MIT License</a>
express	4.17.3	<a href="#">MIT License</a>
express	4.18.2	<a href="#">MIT License</a>
express-jwt	8.0.0	<a href="#">MIT License</a>
express-partials	0.3.0	<a href="#">MIT License</a>
express-unless	2.1.3	<a href="#">MIT License</a>
ext	1.7.0	<a href="#">ISC License</a>
eyes	0.1.8	<a href="#">MIT License</a>
f2fs-tools	1.13.0	<a href="#">GNU General Public License v2.0</a>
file	5.38	<a href="#">BSD 2-clause "Simplified" License</a>
filelist	1.0.4	<a href="#">Apache License 2.0</a>
finalhandler	1.1.1	<a href="#">MIT License</a>
finalhandler	1.1.2	<a href="#">MIT License</a>
finalhandler	1.2.0	<a href="#">MIT License</a>

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flexbuffer	0.0.6	Custom: <a href="https://github.com/mercadolibre/flexbuffer-node/blob/master/test/tests.js">https://github.com/mercadolibre/flexbuffer-node/blob/master/test/tests.js</a>
focus-visible	5.2.0	W3C
follow-redirects	1.15.2	<a href="#">MIT License</a>
form-data	4.0.0	<a href="#">MIT License</a>
formidable	2.1.1	<a href="#">MIT License</a>
fortawesome/ angular-fontawes- some	0.8.1	<a href="#">MIT License</a>
fortawesome/ fontawesome- common-types	0.2.36	<a href="#">MIT License</a>
fortawesome/ fontawesome- svg-core	1.2.34	<a href="#">MIT License</a>
fortawesome/ free-solid-svg- icons	5.11.2	(( <a href="#">CC-BY-4.0</a> AND <a href="#">MIT License</a> )
forwarded	0.2.0	<a href="#">MIT License</a>
fresh	0.5.2	<a href="#">MIT License</a>
fs-minipass	2.1.0	<a href="#">ISC License</a>
fs.realpath	1.0.0	<a href="#">ISC License</a>
function-bind	1.1.1	<a href="#">MIT License</a>
gauge	3.0.2	<a href="#">ISC License</a>
gcc-runtime	9.3.0	<a href="#">GNU General Public License v3.0</a> WITH <a href="#">GCC Runtime Library exception 3.1</a>
gdb	9.1	<a href="#">GNU General Public License v2.0</a> AND <a href="#">GNU General Public License v3.0</a> AND <a href="#">GNU Library General Public License v2</a> AND <a href="#">GNU Lesser General Public License v3.0</a>
generate-func- tion	2.3.1	<a href="#">MIT License</a>
generate-object- property	1.2.0	<a href="#">MIT License</a>
get-caller-file	2.0.5	<a href="#">ISC License</a>
get-intrinsic	1.2.0	<a href="#">MIT License</a>
glibc	2.31+gitAU- TOINC +3ef8be9b89	<a href="#">GNU General Public License v2.0</a> AND <a href="#">GNU Lesser General Public License v2.1</a>
glob	7.2.3	<a href="#">ISC License</a>

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gmp	6.2.0	<a href="#">GNU General Public License v2.0</a> or later OR <a href="#">GNU Lesser General Public License v3.0</a> or later
gnutls	3.6.14	<a href="#">GNU General Public License v3.0</a> or later AND <a href="#">GNU Lesser General Public License v2.1</a> or later
good-listener	1.2.2	<a href="#">MIT License</a>
graceful-fs	4.2.11	<a href="#">ISC License</a>
GSL	2.0.0	<a href="#">MIT License</a>
has	1.0.3	<a href="#">MIT License</a>
has-binary	0.1.7	<a href="#">MIT License</a>
has-binary2	1.0.3	<a href="#">MIT License</a>
has-cors	1.1.0	<a href="#">MIT License</a>
has-flag	4.0.0	<a href="#">MIT License</a>
has-symbols	1.0.3	<a href="#">MIT License</a>
has-unicode	2.0.1	<a href="#">ISC License</a>
hexoid	1.0.0	<a href="#">MIT License</a>
htop	2.2.0	<a href="#">GNU General Public License v2.0</a>
http-errors	1.6.3	<a href="#">MIT License</a>
http-errors	1.7.3	<a href="#">MIT License</a>
http-errors	1.8.1	<a href="#">MIT License</a>
http-errors	2.0.0	<a href="#">MIT License</a>
https-proxy-agent	5.0.1	<a href="#">MIT License</a>
i2c-tools	4.1	<a href="#">GNU General Public License v2.0</a> or later
iconv-lite	0.4.23	<a href="#">MIT License</a>
iconv-lite	0.4.24	<a href="#">MIT License</a>
icu	66.1	<a href="#">ICU License</a>
idlejs	2.0.1	<a href="#">MIT License</a>
indexof	0.0.1	<a href="#">MIT License</a>
inflection	1.13.4	<a href="#">MIT License</a>
inflight	1.0.6	<a href="#">ISC License</a>
inherits	2.0.3	<a href="#">ISC License</a>
inherits	2.0.4	<a href="#">ISC License</a>
ioredis	3.2.2	<a href="#">MIT License</a>
ioredis	4.28.5	<a href="#">MIT License</a>

Package	Version	License
ioredis-mock	4.7.0	<a href="#">MIT License</a>
ip-regex	4.3.0	<a href="#">MIT License</a>
ipaddr.js	1.9.1	<a href="#">MIT License</a>
iperf3	3.7	<a href="#">BSD 3-clause "New" or "Revised" License</a>
iptables	1.8.4	<a href="#">GNU General Public License v2.0 or later</a>
is-fullwidth-code-point	3.0.0	<a href="#">MIT License</a>
is-ip	3.1.0	<a href="#">MIT License</a>
is-my-ip-valid	1.0.1	<a href="#">MIT License</a>
is-my-ip-valid	1.0.0	<a href="#">MIT License</a>
is-my-json-valid	2.20.5	<a href="#">MIT License</a>
is-my-json-valid	2.20.6	<a href="#">MIT License</a>
is-my-json-valid	2.17.2	<a href="#">MIT License</a>
is-promise	2.2.2	<a href="#">MIT License</a>
is-property	1.0.2	<a href="#">MIT License</a>
is-utf8	0.2.1	<a href="#">MIT License</a>
isarray	0.0.1	<a href="#">MIT License</a>
isarray	1.0.0	<a href="#">MIT License</a>
isarray	2.0.1	<a href="#">MIT License</a>
isexe	2.0.0	<a href="#">ISC License</a>
isstream	0.1.2	<a href="#">MIT License</a>
jake	10.8.5	<a href="#">Apache License 2.0</a>
jq	1.6	<a href="#">MIT License</a>
jquery	3.6.4	<a href="#">MIT License</a>
jquery.json-viewer	1.5.0	<a href="#">MIT License</a>
json-c	0.13.1	<a href="#">MIT License</a>
json3	3.3.2	<a href="#">MIT License</a>
json5	2.2.3	<a href="#">MIT License</a>
jsoncons	0.168.1	<a href="#">Boost Software License 1.0</a>
jsoncpp	1.9.5-rs	<a href="#">MIT License</a>
jsonpointer	4.1.0	<a href="#">MIT License</a>
jsonpointer	5.0.1	<a href="#">MIT License</a>
jsonwebtoken	9.0.0	<a href="#">MIT License</a>

Package	Version	License
jsonwebtoken	8.5.1	MIT License
jstree	3.3.12	MIT License
jwa	1.4.1	MIT License
jws	3.2.2	MIT License
kexec-tools	2.0.20	GNU General Public License v2.0
kmod	26	GNU General Public License v2.0 or later AND GNU Lesser General Public License v2.1 or later
ldapts	2.11.1	MIT License
libarchive	3.4.2	BSD 2-clause "Simplified" License
libcap	2.32	BSD 3-clause "New" or "Revised" License OR GNU General Public License v2.0
libgcc	9.3.0	GNU General Public License v3.0 WITH GCC Runtime Library exception 3.1 AND GNU General Public License v3.0 WITH
libgcrypt	1.8.5	GNU General Public License v2.0 or later AND GNU Lesser General Public License v2.1 or later AND GNU General Public License v3.0 or later
libgpg-error	1.37	GNU General Public License v2.0 or later AND GNU Lesser General Public License v2.1 or later
libidn2	2.3.0	(GNU General Public License v2.0 OR GNU Lesser General Public License v3.0) AND GNU General Public License v3.0 or later
libjitterentropy	2.2.0	GNU General Public License v2.0 or later OR BSD
libnl	3.5.0	GNU Lesser General Public License v2.1
libpcap	1.9.1	BSD 3-clause "New" or "Revised" License
libpcre	8.44	BSD 3-clause "New" or "Revised" License
libsolv	0.7.10	BSD 3-clause "New" or "Revised" License
libunistring	0.9.10	GNU Lesser General Public License v3.0 or later OR GNU General Public License v2.0
libunwind	1.3.1	MIT License
libusb1	1.0.22	GNU Lesser General Public License v2.1 or later
libxcrypt	4.4.15	GNU Lesser General Public License v2.1
libxml2	2.9.10	MIT License
linux-xlnx	5.4+gitAUTOINC +62ea514294	GNU General Public License v2.0

Package	Version	License
lit	2.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-element	3.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-html	2.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit-labs/scoped-registry-mixin	1.0.0	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lit/reactive-element	1.0.2	<a href="#">BSD 3-clause "New" or "Revised" License</a>
lodash	4.17.11	<a href="#">MIT License</a>
lodash	4.17.21	<a href="#">MIT License</a>
lodash-es	4.17.21	<a href="#">MIT License</a>
lodash.assign	4.2.0	<a href="#">MIT License</a>
lodash.bind	4.2.1	<a href="#">MIT License</a>
lodash.clone	4.5.0	<a href="#">MIT License</a>
lodash.clone-deep	4.5.0	<a href="#">MIT License</a>
lodash.defaults	4.2.0	<a href="#">MIT License</a>
lodash.difference	4.5.0	<a href="#">MIT License</a>
lodash.flatten	4.4.0	<a href="#">MIT License</a>
lodash.foreach	4.5.0	<a href="#">MIT License</a>
lodash.includes	4.3.0	<a href="#">MIT License</a>
lodash.isarguments	3.1.0	<a href="#">MIT License</a>
lodash.isboolean	3.0.3	<a href="#">MIT License</a>
lodash.isEmpty	4.4.0	<a href="#">MIT License</a>
lodash.isequal	4.5.0	<a href="#">MIT License</a>
lodash.isinteger	4.0.4	<a href="#">MIT License</a>
lodash.isnumber	3.0.3	<a href="#">MIT License</a>
lodash.isplainobject	4.0.6	<a href="#">MIT License</a>
lodash.isstring	4.0.1	<a href="#">MIT License</a>
lodash.keys	4.2.0	<a href="#">MIT License</a>
lodash.noop	3.0.1	<a href="#">MIT License</a>
lodash.once	4.1.1	<a href="#">MIT License</a>
lodash.partial	4.2.1	<a href="#">MIT License</a>
lodash.pick	4.4.0	<a href="#">MIT License</a>
lodash.sample	4.2.1	<a href="#">MIT License</a>



Package	Version	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
lru-cache	6.0.0	ISC License
lscache	1.3.0	Apache License 2.0
isof	4.91	Spencer License 94
ltrace	7.91+gitAU-TOINC+c22d359433	GNU General Public License v2.0
luxon	1.25.0	MIT License
luxon	3.3.0	MIT License
lz4	1.9.2	BSD OR BSD 2-clause "Simplified" License OR GNU General Public License v2.0
lzo	2.10	GNU General Public License v2.0 or later
make-dir	3.1.0	MIT License
makedumpfile	1.6.7	GNU General Public License v2.0
mapbox/node-pre-gyp	1.0.10	BSD 3-clause "New" or "Revised" License
media-typer	0.3.0	MIT License
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

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which	2.0.2	<a href="#">ISC License</a>
wide-align	1.1.5	<a href="#">ISC License</a>
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wrap-ansi	7.0.0	<a href="#">MIT License</a>
wrappy	1.0.2	<a href="#">ISC License</a>
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yargs-parser	21.1.1	<a href="#">ISC License</a>
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Version 3.1, 31 March 2009

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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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```
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```

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```
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```

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

```
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### 3.19 GNU Library General Public License v2

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Version 2, June 1991

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

numbered 2 because it goes with version 2 of the ordinary GPL.]

## Preamble

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Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that companies distributing free software will individually obtain patent licenses, thus in effect transforming the program into proprietary software. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

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.

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.

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"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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- 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.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the

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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.

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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:

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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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