

## License Information of Open Source Software

### CONTENTS

1. arm-trusted-firmware.....	2
2. Boost C++ Libraries - boost.....	5
3. EGL.....	19
4. FreeBSD.....	19
5. Google V8 JavaScript Engine.....	43
6. HarfBuzz.....	43
7. ICU for C/C++ (ICU4C) .....	45
8. libjpeg.....	71
9. libunibreak.....	71
10. linux-bsp .....	72
11. open-amp.....	74
12. OpenBSD .....	74
13. OpenGL.....	75
14. OpenGL ES.....	75
15. Python programming language.....	76
16. Renesas Electronics Corporation/Renesas Electronics Europe GmbH 製ソフトウェア.....	76
17. Renesas Electronics Corporation 製ソフトウェア .....	76
18. The FreeType Project .....	77
19. TinyXML.....	79
20. ucdn.....	81
21. Xilinx, Inc.製ソフトウェア .....	82
22. zlib.....	82

## 1. arm-trusted-firmware

Copyright (c) 2016, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2016-2018, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2013-2014, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2015-2017, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2013-2017, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2013-2018, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2015-2018, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2013-2016, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2015-2016, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2017, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2018, Renesas Electronics Corporation. All rights reserved.  
Copyright (c) 2017-2018, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2017-2018, Renesas Electronics Corporation. All rights reserved.  
Copyright (c) 2015-2018, Renesas Electronics Corporation. All rights reserved.  
Copyright (c) 2014-2017, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2014, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2018, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2014-2015, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2016-2017, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2014-2016, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2015, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2014-2018, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2013-2015, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2015-2017, Renesas Electronics Corporation. All rights reserved.  
Copyright (C) 2017, Cogent Embedded, Inc.  
Copyright (c) 2014 ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2015-2019, Renesas Electronics Corporation. All rights reserved.

SPDX-License-Identifier: BSD-3-Clause

\*\*\*\*\*

Copyright (c) 2014, ARM Limited and Contributors. All rights reserved.

SPDX-License-Identifier: BSD-3-Clause

Copyright (c) 2014, Linaro Limited. All rights reserved.

\*\*\*\*\*

This script implements the old fip\_create tool on top of  
the new fiptool.

SPDX-License-Identifier: BSD-3-Clause

\*\*\*\*\*

Copyright (c) 2016-2018, ARM Limited and Contributors. All rights reserved.  
Copyright (c) 2017, ARM Limited and Contributors. All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

Redistributions of source code must retain the above copyright notice, this  
list of conditions and the following disclaimer.

Redistributions in binary form must reproduce the above copyright notice,  
this list of conditions and the following disclaimer in the documentation  
and/or other materials provided with the distribution.

Neither the name of ARM nor the names of its contributors may be used  
to endorse or promote products derived from this software without specific  
prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS  
IS"

AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS  
BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 2015-2018, Renesas Electronics Corporation

Copyright (c) 2015-2016, Renesas Electronics Corporation

All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice,  
this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.
- Neither the name of Renesas nor the names of its contributors may be  
used to endorse or promote products derived from this software without  
specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS  
IS"

AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER OR CONTRIBUTORS  
BE

LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR  
CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF  
SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS  
INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN  
CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE)  
ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE  
POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) [2021-2022] Renesas Electronics Corporation

This software is released under the MIT License.

<http://opensource.org/licenses/mit-license.php>

## 2. Boost C++ Libraries - boost

Adaptation to Boost of the libcxx

Copyright 2010 Vicente J. Botet Escriba

Distributed under the Boost Software License, Version 1.0.

See [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt)

\*\*\*\*\*

(C) Copyright Howard Hinnant

(C) Copyright 2010-2011 Vicente J. Botet Escriba

Use, modification and distribution are subject to the Boost Software License,

Version 1.0. (See accompanying file LICENSE\_1\_0.txt or copy at

[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt)).

The LLVM Compiler Infrastructure

This file is dual licensed under the MIT and the University of Illinois Open

Source Licenses. See LICENSE.TXT for details.

This code was adapted by Vicente from Howard Hinnant's experimental work

on chrono i/o to Boost and some functions from libc++/locale to emulate the missing time\_get::get()

\*\*\*\*\*

Copyright (C) 2012-2013 Vicente J. Botet Escriba

Distributed under the Boost Software License, Version 1.0. (See accompanying

file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

2013/04 Vicente J. Botet Escriba

Provide implementation up to 9 parameters when BOOST\_NO\_CXX11\_VARIADIC\_TEMPLATES is defined.

Make use of Boost.Move

Make use of Boost.Tuple (movable)

2012 Vicente J. Botet Escriba

Provide implementation \_RET using bind when BOOST\_NO\_CXX11\_HDR\_FUNCTIONAL and BOOST\_NO\_SFINAE\_EXPR are not defined

2012 Vicente J. Botet Escriba

Adapt to boost libc++ implementation

The LLVM Compiler Infrastructure

This file is dual licensed under the MIT and the University of Illinois Open Source Licenses. See LICENSE.TXT for details.

The invoke code is based on the one from libcxx.

\*\*\*\*\*

Copyright (C) 2012 Vicente J. Botet Escriba

Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

2013/04 Vicente J. Botet Escriba

Provide implementation up to 9 parameters when BOOST\_NO\_CXX11\_VARIADIC\_TEMPLATES is defined.

Make use of Boost.Move

Make use of Boost.Tuple (movable)

2012/11 Vicente J. Botet Escriba

Adapt to boost libc++ implementation

The LLVM Compiler Infrastructure

This file is dual licensed under the MIT and the University of Illinois Open Source Licenses. See LICENSE.TXT for details.

The invoker code is based on the one from libcxx.

\*\*\*\*\*

Copyright (C) 2012-2013 Vicente J. Botet Escriba

Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

2013/04 Vicente J. Botet Escriba

Provide implementation up to 10 parameters when BOOST\_NO\_CXX11\_VARIADIC\_TEMPLATES

is defined.

2012/11 Vicente J. Botet Escriba

Adapt to boost libc++ implementation

The LLVM Compiler Infrastructure

This file is dual licensed under the MIT and the University of Illinois Open Source Licenses. See LICENSE.TXT for details.

The make\_tuple\_indices C++11 code is based on the one from libcxx.

\*\*\*\*\*

Copyright (c) 2015 Muhammad Junaid Muzammil <mjunaidmuzammil@gmail.com>

Distributed under the Boost Software License, Version 1.0

See accompanying file LICENSE\_1\_0.txt or copy at

[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt)

See <http://boostorg.github.com/compute> for more information.

Copyright 2010-2012, D. E. Shaw Research.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- \* Redistributions of source code must retain the above copyright notice, this list of conditions, and the following disclaimer.
- \* Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.
- \* Neither the name of D. E. Shaw Research nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS

"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

(C) Copyright 2002 Robert Ramey - <http://www.rrsd.com> .

Use, modification and distribution is subject to the Boost Software License, Version 1.0. (See accompanying file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

See <http://www.boost.org> for updates, documentation, and revision history.

this module is derived from `simplexml.cpp` - an example shipped as part of the spirit parser. This example contains the following notice:

=====

=

`simplexml.cpp`

Spirit V1.3

URL: <http://spirit.sourceforge.net/>

Copyright (c) 2001, Daniel C. Nuffer

This software is provided 'as-is', without any express or implied warranty. In no event will the copyright holder be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must



not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

\*\*\*\*\*

(C) Copyright Ion Gaztanaga 2007-2014

Distributed under the Boost Software License, Version 1.0.

(See accompanying file LICENSE\_1\_0.txt or copy at  
[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

See <http://www.boost.org/libs/intrusive> for documentation.

The implementation of splay trees is based on the article and code published in C++ Users Journal "Implementing Splay Trees in C++" (September 1, 2005).

The splay code has been modified and (supposedly) improved by Ion Gaztanaga.

Here is the copyright notice of the original file containing the splay code:

splay\_tree.h -- implementation of a STL compatible splay tree.

Copyright (c) 2004 Ralf Mattethat

Permission to copy, use, modify, sell and distribute this software is granted provided this copyright notice appears in all copies.

This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

\*\*\*\*\*

(C) Copyright Jeremy Siek 2001.

Distributed under the Boost Software License, Version 1.0. (See accompany-

ing file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

Copyright (c) 1994

Hewlett-Packard Company

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Copyright (c) 1996

Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

\*\*\*\*\*

Copyright (c) 2000 David Abrahams.

Distributed under the Boost Software License, Version 1.0.

(See accompanying file LICENSE\_1\_0.txt or copy at  
[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

Copyright (c) 1994

Hewlett-Packard Company

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Hewlett-Packard Company makes no representations about the suitability of this software for any

purpose. It is provided "as is" without express or implied warranty.

Copyright (c) 1996

Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

\*\*\*\*\*

(C) Copyright Ion Gaztanaga 2005-2012. Distributed under the Boost Software License, Version 1.0. (See accompanying file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

See <http://www.boost.org/libs/interprocess> for documentation.

This file comes from SGI's sstream file. Modified by Ion Gaztanaga 2005-2012. Changed internal SGI string to a buffer. Added efficient internal buffer get/set/swap functions, so that we can obtain/establish the internal buffer without any reallocation or copy. Kill those temporaries!

Copyright (c) 1998

Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

\*\*\*\*\*

(C) Copyright Ion Gaztanaga 2005-2012. Distributed under the Boost Software License, Version 1.0. (See accompanying file

LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

See <http://www.boost.org/libs/interprocess> for documentation.

This file comes from SGI's sstream file. Modified by Ion Gaztanaga 2005-2012.  
Changed internal SGI string to a generic, templated vector. Added efficient  
internal buffer get/set/swap functions, so that we can obtain/establish the  
internal buffer without any reallocation or copy. Kill those temporaries!

Copyright (c) 1998

Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software  
and its documentation for any purpose is hereby granted without fee,  
provided that the above copyright notice appear in all copies and  
that both that copyright notice and this permission notice appear  
in supporting documentation. Silicon Graphics makes no  
representations about the suitability of this software for any  
purpose. It is provided "as is" without express or implied warranty.

\*\*\*\*\*

Copyright (c) 1994

Hewlett-Packard Company

Permission to use, copy, modify, distribute and sell this software  
and its documentation for any purpose is hereby granted without fee,  
provided that the above copyright notice appear in all copies and  
that both that copyright notice and this permission notice appear  
in supporting documentation. Hewlett-Packard Company makes no  
representations about the suitability of this software for any  
purpose. It is provided "as is" without express or implied warranty.

Copyright (c) 1996-1998

Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software  
and its documentation for any purpose is hereby granted without fee,  
provided that the above copyright notice appear in all copies and  
that both that copyright notice and this permission notice appear

in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Copyright 2002 The Trustees of Indiana University.

Use, modification and distribution is subject to the Boost Software License, Version 1.0. (See accompanying file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

Boost.MultiArray Library

Authors: Ronald Garcia

Jeremy Siek

Andrew Lumsdaine

See [http://www.boost.org/libs/multi\\_array](http://www.boost.org/libs/multi_array) for documentation.

\*\*\*\*\*

Copyright 2003-2015 Joaquin M Lopez Munoz.

Distributed under the Boost Software License, Version 1.0.

(See accompanying file LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

See [http://www.boost.org/libs/multi\\_index](http://www.boost.org/libs/multi_index) for library home page.

The internal implementation of red-black trees is based on that of SGI STL `stl_tree.h` file:

Copyright (c) 1996,1997

Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Copyright (c) 1994

Hewlett-Packard Company

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

\*\*\*\*\*

Copyright 2003-2015 Joaquin M Lopez Munoz.  
Distributed under the Boost Software License, Version 1.0.  
(See accompanying file LICENSE\_1\_0.txt or copy at  
[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

See [http://www.boost.org/libs/multi\\_index](http://www.boost.org/libs/multi_index) for library home page.

The internal implementation of red-black trees is based on that of SGI STL `stl_tree.h` file:

Copyright (c) 1996,1997  
Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Copyright (c) 1994  
Hewlett-Packard Company

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear

in supporting documentation. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

\*\*\*\*\*

Copyright 2003-2014 Joaquin M Lopez Munoz.  
Distributed under the Boost Software License, Version 1.0.  
(See accompanying file LICENSE\_1\_0.txt or copy at  
[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

See [http://www.boost.org/libs/multi\\_index](http://www.boost.org/libs/multi_index) for library home page.

The internal implementation of red-black trees is based on that of SGI STL  
`stl_tree.h` file:

Copyright (c) 1996,1997  
Silicon Graphics Computer Systems, Inc.

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Silicon Graphics makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

Copyright (c) 1994  
Hewlett-Packard Company

Permission to use, copy, modify, distribute and sell this software and its documentation for any purpose is hereby granted without fee, provided that the above copyright notice appear in all copies and that both that copyright notice and this permission notice appear in supporting documentation. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose. It is provided "as is" without express or implied warranty.

\*\*\*\*\*

(C) Copyright John Maddock 2005.

Use, modification and distribution are subject to the  
Boost Software License, Version 1.0. (See accompanying file  
LICENSE\_1\_0.txt or copy at [http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

The gcc include path logic is derived from STLport:

Copyright (c) 1994  
Hewlett-Packard Company

Copyright (c) 1996-1999  
Silicon Graphics Computer Systems, Inc.

Copyright (c) 1997  
Moscow Center for SPARC Technology

Copyright (c) 1999-2003  
Boris Fomitchev

This material is provided "as is", with absolutely no warranty expressed  
or implied. Any use is at your own risk.

Permission to use or copy this software for any purpose is hereby granted  
without fee, provided the above notices are retained on all copies.  
Permission to modify the code and to distribute modified code is granted,  
provided the above notices are retained, and a notice that the code was  
modified is included with the above copyright notice.

\*\*\*\*\*

Copyright (c) 2006, Stephan Diederich

This code may be used under either of the following two licences:

Permission is hereby granted, free of charge, to any person  
obtaining a copy of this software and associated documentation  
files (the "Software"), to deal in the Software without  
restriction, including without limitation the rights to use,  
copy, modify, merge, publish, distribute, sublicense, and/or  
sell copies of the Software, and to permit persons to whom the



Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE. OF SUCH DAMAGE.

Or:

Distributed under the Boost Software License, Version 1.0.

(See accompanying file LICENSE\_1\_0.txt or copy at

[http://www.boost.org/LICENSE\\_1\\_0.txt](http://www.boost.org/LICENSE_1_0.txt))

\*\*\*\*\*

Boost common\_factor\_rt.hpp header file

(C) Copyright Daryle Walker and Paul Moore 2001-2002. Permission to copy, use, modify, sell and distribute this software is granted provided this copyright notice appears in all copies. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

boostinspect:nolicense (don't complain about the lack of a Boost license)

(Paul Moore hasn't been in contact for years, so there's no way to change the license.)

See <http://www.boost.org> for updates, documentation, and revision history.

\*\*\*\*\*

Copyright (c) 2001 Ronald Garcia, Indiana University ([garcia@osl.iu.edu](mailto:garcia@osl.iu.edu))

Andrew Lumsdaine, Indiana University (lums@osl.iu.edu). Permission to copy, use, modify, sell and distribute this software is granted provided this copyright notice appears in all copies. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

\*\*\*\*\*

Boost rational.hpp header file

(C) Copyright Paul Moore 1999. Permission to copy, use, modify, sell and distribute this software is granted provided this copyright notice appears in all copies. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

boostinspect::nolicense (don't complain about the lack of a Boost license)  
(Paul Moore hasn't been in contact for years, so there's no way to change the license.)

See <http://www.boost.org/libs/rational> for documentation.

\*\*\*\*\*

(C) Copyright Ronald Garcia 2002. Permission to copy, use, modify, sell and distribute this software is granted provided this copyright notice appears in all copies. This software is provided "as is" without express or implied warranty, and with no claim as to its suitability for any purpose.

See [http://www.boost.org/libs/utility/shared\\_container\\_iterator.html](http://www.boost.org/libs/utility/shared_container_iterator.html) for documentation.

\*\*\*\*\*

Copyright (C) 2001-2003 Douglas Gregor (gregod@cs.rpi.edu)

Permission to copy, use, sell and distribute this software is granted provided this copyright notice appears in all copies.

Permission to modify the code and to distribute modified code is granted provided this copyright notice appears in all copies, and a notice that the code was modified is included with the copyright notice.

This software is provided "as is" without express or implied warranty,  
and with no claim as to its suitability for any purpose.

For more information, see <http://www.boost.org>

\*\*\*\*\*

### 3. EGL

Copyright (c) 2007-2016 The Khronos Group Inc.  
Copyright (c) 2008-2009 The Khronos Group Inc.  
Copyright (c) 2008-2018 The Khronos Group Inc.  
Copyright (c) 2013-2017 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a  
copy of this software and/or associated documentation files (the  
"Materials"), to deal in the Materials without restriction, including  
without limitation the rights to use, copy, modify, merge, publish,  
distribute, sublicense, and/or sell copies of the Materials, and to  
permit persons to whom the Materials are furnished to do so, subject to  
the following conditions:

The above copyright notice and this permission notice shall be included  
in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND,  
EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF  
MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT.  
IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY  
CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT,  
TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE  
MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

### 4. FreeBSD

Copyright (c) 2011, Bryan Venteicher <bryanv@FreeBSD.org>  
All rights reserved.

SPDX-License-Identifier: BSD-2-Clause

\*\*\*\*\*

Copyright (c) 2011 David E. O'Brien <obrien@FreeBSD.org>

Copyright (c) 2001 Mike Barcroft <mike@FreeBSD.org>

Copyright (c) 2000 Jeroen Ruigrok van der Werven <asmodai@FreeBSD.org>

Copyright (c) 2002 Mike Barcroft <mike@FreeBSD.org>

Copyright (c) 2011, 2012 The FreeBSD Foundation

Copyright (c) 2002 Thomas Moestl <tmm@FreeBSD.org>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 2003 Marcel Moolenaar

All rights reserved.

Redistribution and use in source and binary forms, with or without

modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 2011, 2012 The FreeBSD Foundation  
All rights reserved.

This software was developed by David Chisnall under sponsorship from the FreeBSD Foundation.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR

## PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 1988, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2017, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 2009 David Schultz <das@FreeBSD.org>

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2017, ARM Limited and Contributors. All rights reserved.

\*\*\*\*\*

Copyright (c) 2002 Marcel Moolenaar

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright

notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1982, 1986, 1993  
The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE



ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 2002 Mike Barcroft <mike@FreeBSD.org>

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF

SUCH DAMAGE.

Portions copyright (c) 2016, ARM Limited and Contributors.

All rights reserved.

\*\*\*\*\*

Copyright (c) 1992, 1993

The Regents of the University of California. All rights reserved.

(c) UNIX System Laboratories, Inc.

All or some portions of this file are derived from material licensed to the University of California by American Telephone and Telegraph Co. or Unix System Laboratories, Inc. and are reproduced herein with the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2017, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1992, 1993

The Regents of the University of California. All rights reserved.

(c) UNIX System Laboratories, Inc.

All or some portions of this file are derived from material licensed to the University of California by American Telephone and Telegraph Co. or Unix System Laboratories, Inc. and are reproduced herein with the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2017, ARM Limited and Contributors.

All rights reserved.

Portions copyright (c) 2019, Renesas Electronics Corporation.

All rights reserved.

\*\*\*\*\*

Copyright (c) 1991, 1993

The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by  
Berkeley Software Design, Inc.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions  
are met:

1. Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors  
may be used to endorse or promote products derived from this software  
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE  
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 1982, 1986, 1989, 1993

The Regents of the University of California. All rights reserved.

(c) UNIX System Laboratories, Inc.

All or some portions of this file are derived from material licensed to the University of California by American Telephone and Telegraph Co. or Unix System Laboratories, Inc. and are reproduced herein with the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 1982, 1986, 1991, 1993, 1994

The Regents of the University of California. All rights reserved.

(c) UNIX System Laboratories, Inc.

All or some portions of this file are derived from material licensed to the University of California by American Telephone and Telegraph Co. or Unix System Laboratories, Inc. and are reproduced herein with the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 1982, 1988, 1991, 1993

The Regents of the University of California. All rights reserved.

(c) UNIX System Laboratories, Inc.

All or some portions of this file are derived from material licensed to the University of California by American Telephone and Telegraph Co. or Unix System Laboratories, Inc. and are reproduced herein with the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2009-2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1986, 1988, 1991, 1993

The Regents of the University of California. All rights reserved.

(c) UNIX System Laboratories, Inc.

All or some portions of this file are derived from material licensed to the University of California by American Telephone and Telegraph Co. or Unix System Laboratories, Inc. and are reproduced herein with the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2009-2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1988, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright



notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 1989, 1993

The Regents of the University of California. All rights reserved.

(c) UNIX System Laboratories, Inc.

All or some portions of this file are derived from material licensed to the University of California by American Telephone and Telegraph Co. or Unix System Laboratories, Inc. and are reproduced herein with the permission of UNIX System Laboratories, Inc.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software

without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)

HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS

OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT  
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions  
are met:

1. Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors  
may be used to endorse or promote products derived from this software  
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE  
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT  
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
SUCH DAMAGE.

Portions copyright (c) 2013-2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2013-2017, ARM Limited and Contributors.

All rights reserved.

\*\*\*\*\*

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2009-2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright

notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2013-2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1990, 1993

The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by  
Chris Torek.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors

may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2013-2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1990, 1993  
The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by  
Chris Torek.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2014, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*

Copyright (c) 1991, 1993

The Regents of the University of California. All rights reserved.

This code is derived from software contributed to Berkeley by  
Berkeley Software Design, Inc.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions  
are met:

1. Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.
4. Neither the name of the University nor the names of its contributors  
may be used to endorse or promote products derived from this software  
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR



## PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) 2001 David E. O'Brien

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE REGENTS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Portions copyright (c) 2017, ARM Limited and Contributors.  
All rights reserved.

\*\*\*\*\*  
Copyright (c) 2002 David E. O'Brien. All rights reserved.

Redistribution and use in source and binary forms, with or without  
modification, are permitted provided that the following conditions  
are met:

1. Redistributions of source code must retain the above copyright  
notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright  
notice, this list of conditions and the following disclaimer in the  
documentation and/or other materials provided with the distribution.
3. Neither the name of the University nor the names of its contributors  
may be used to endorse or promote products derived from this software  
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS ``AS IS" AND  
ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE  
ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE  
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT  
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
SUCH DAMAGE.

## 5. Google V8 JavaScript Engine

Copyright 2012 the V8 project authors. All rights reserved.

Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.

¥mainpage V8 API Reference Guide

V8 is Google's open source JavaScript engine.

This set of documents provides reference material generated from the V8 header file, include/v8.h.

For other documentation see <http://code.google.com/apis/v8/>

\*\*\*\*\*

Copyright 2012 the V8 project authors. All rights reserved.

Copyright 2013 the V8 project authors. All rights reserved.

Copyright 2014 the V8 project authors. All rights reserved.

Use of this source code is governed by a BSD-style license that can be found in the LICENSE file.

## 6. HarfBuzz

Copyright © 1998-2004 David Turner and Werner Lemberg

Copyright © 2004,2007,2009 Red Hat, Inc.

Copyright © 2011,2012 Google, Inc.

Copyright © 2007,2008,2009 Red Hat, Inc.

Copyright © 2009 Red Hat, Inc.

Copyright © 2011 Codethink Limited

Copyright © 2012 Google, Inc.

Copyright © 2015 Google, Inc.

Copyright © 2011 Google, Inc.

Copyright © 2013 Google, Inc.

Copyright © 2013 Red Hat, Inc.

Copyright © 2014 Google, Inc.

Copyright © 2016 Igalia S.L.

Copyright © 2017 Google, Inc.

Copyright © 2018 Google, Inc.

This is part of HarfBuzz, a text shaping library.

Permission is hereby granted, without written agreement and without license or royalty fees, to use, copy, modify, and distribute this software and its documentation for any purpose, provided that the above copyright notice and the following two paragraphs appear in all copies of this software.

IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE TO ANY PARTY FOR DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF THIS SOFTWARE AND ITS DOCUMENTATION, EVEN IF THE COPYRIGHT HOLDER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

THE COPYRIGHT HOLDER SPECIFICALLY DISCLAIMS ANY WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE SOFTWARE PROVIDED HEREUNDER IS ON AN "AS IS" BASIS, AND THE COPYRIGHT HOLDER HAS NO OBLIGATION TO PROVIDE MAINTENANCE, SUPPORT, UPDATES, ENHANCEMENTS, OR MODIFICATIONS.

Red Hat Author(s): Owen Taylor, Behdad Esfahbod

Google Author(s): Behdad Esfahbod

Red Hat Author(s): Behdad Esfahbod

Codethink Author(s): Ryan Lortie

Google Author(s): Behdad Esfahbod, Roozbeh Pournader

Igalia Author(s): Frédéric Wang

Google Author(s): Garret Rieger

Google Author(s): Garret Rieger, Roderick Sheeter

Google Author(s): Rod Sheeter

## 7. ICU for C/C++ (ICU4C)

Copyright (C) 2011-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2007-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1997-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved.

Copyright 2007 Google Inc. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2010-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2010-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1996-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1997-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2012-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 2004-2006, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2006,2013 IBM Corp. All rights reserved.  
Copyright (C) 2011-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2007-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2012, International Business Machines

Corporation and others. All Rights Reserved.

Copyright 2007 Google Inc. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2010-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2010-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1996-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1997-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1996-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2012-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (c) 2004-2006, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2006,2013 IBM Corp. All rights reserved.

\*\*\*\*\*

Copyright (c) 1997-2012, International Business Machines  
Corporation and others. All Rights Reserved

\*\*\*\*\*

Copyright (C) 2008-2009, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2011,2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2007-2008, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*



Copyright (C) 2009-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2006, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2010-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 2004-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2011-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2010-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2005, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2005, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2013 International Business Machines Corporation and others. All rights reserved.

\*\*\*\*\*

Copyright (C) 2002-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1999-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1996-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1998-2005, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2001-2011 IBM and others. All rights reserved.

\*\*\*\*\*  
Copyright (c) 1997-2011, International Business Machines  
Corporation and others. All Rights Reserved.  
Copyright (C) 2010 , Yahoo! Inc.

\*\*\*\*\*  
Copyright (C) 1997-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1997-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1996-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2002-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2009-2013, International Business Machines  
Corporation and others. All Rights Reserved.

Copyright 2001 and onwards Google Inc.

\*\*\*\*\*  
Copyright (C) 2001-2008 IBM and others. All rights reserved.

\*\*\*\*\*  
Copyright (c) 2000-2005, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1996-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (c) 1997-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2009-2010, Google, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2008-2013, Google, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1999-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2011-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2011-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2007-2008, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1999-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2005-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (c) 2003-2004, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2001-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2004, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2009, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2011, International Business Machines  
Corporation, Google and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2001-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2005-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2010-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2007-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2010-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2003-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2002-2011 International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2010-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2003-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1999-2006, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
COPYRIGHT:  
Copyright (c) 1997-2011, International Business Machines  
Corporation and others. All Rights Reserved.  
Copyright (C) 2010 , Yahoo! Inc.

\*\*\*\*\*  
Copyright (C) 1999-2010, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (c) 2002-2005, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2001-2005, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1999-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1998-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*



Copyright (c) 1996-2010, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2004-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2010, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 2002-2008, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2003-2010, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1998-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2004-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2001, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2004 - 2008, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved.

Copyright 2007 Google Inc. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

COPYRIGHT:

Copyright (c) 1997-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

COPYRIGHT:

Copyright (c) 1996-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

COPYRIGHT:

Copyright (c) 1997-2011, International Business Machines Corporation and others. All Rights Reserved.  
Copyright (C) 2010 , Yahoo! Inc.

\*\*\*\*\*

Copyright (C) 2009-2013, International Business Machines Corporation and others. All Rights Reserved.

Copyright 2001 and onwards Google Inc.

\*\*\*\*\*

Copyright (C) 2003-2013, International Business Machines Corporation and others. All Rights Reserved.  
Copyright (c) 1997-2012, International Business Machines Corporation and others. All Rights Reserved

\*\*\*\*\*

Copyright (C) 2008-2009, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2011,2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2007-2008, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2006, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2010-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 2004-2011, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2011-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2010-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2005, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2005, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2013 International Business Machines Corporation and others. All rights reserved.

\*\*\*\*\*

Copyright (C) 2002-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1998-2005, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2001-2011 IBM and others. All rights reserved.

\*\*\*\*\*  
Copyright (c) 1997-2011, International Business Machines Corporation and others. All Rights Reserved.  
Copyright (C) 2010 , Yahoo! Inc.

\*\*\*\*\*  
Copyright (C) 1997-2013, International Business Machines Corporation and others. All Rights Reserved.  
v  
Copyright (C) 1997-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 1996-2013, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2002-2012, International Business Machines Corporation and others. All Rights Reserved.

\*\*\*\*\*  
Copyright (C) 2009-2013, International Business Machines Corporation and others. All Rights Reserved.

Copyright 2001 and onwards Google Inc.

\*\*\*\*\*  
Copyright (C) 2001-2008 IBM and others. All rights reserved.

\*\*\*\*\*  
Copyright (c) 2000-2005, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 1997-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2010, Google, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2013, Google, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2011-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2011-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2007-2008, International Business Machines



Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2005-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 2003-2004, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2001-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2004, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2009, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2008-2011, International Business Machines  
Corporation, Google and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2001-2011, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2005-2013, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2013, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2012, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2010-2012, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2007-2012, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2013, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2010-2013, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2003-2013, International Business Machines

Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2002-2011 International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2010-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2003-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2006, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

COPYRIGHT:  
Copyright (c) 1997-2011, International Business Machines  
Corporation and others. All Rights Reserved.  
Copyright (C) 2010 , Yahoo! Inc.

\*\*\*\*\*

Copyright (C) 1999-2010, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 2002-2005, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2001-2005, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1998-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 1996-2010, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2004-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1997-2010, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (c) 2002-2008, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2012, International Business Machines  
Corporation and others. All Rights Reserved.



\*\*\*\*\*

Copyright (C) 2008-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2003-2010, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1998-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2004-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1999-2001, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2004 - 2008, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2013, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2000-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 2009-2012, International Business Machines  
Corporation and others. All Rights Reserved.

Copyright 2007 Google Inc. All Rights Reserved.

\*\*\*\*\*

Copyright (C) 1996-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

COPYRIGHT:

Copyright (c) 1997-2012, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

COPYRIGHT:

Copyright (c) 1996-2011, International Business Machines  
Corporation and others. All Rights Reserved.

\*\*\*\*\*

COPYRIGHT:

Copyright (c) 1997-2011, International Business Machines  
Corporation and others. All Rights Reserved.  
Copyright (C) 2010 , Yahoo! Inc.

\*\*\*\*\*

Copyright (C) 2009-2013, International Business Machines  
Corporation and others. All Rights Reserved.

Copyright 2001 and onwards Google Inc.

\*\*\*\*\*

Copyright (C) 2003-2013, International Business Machines Corporation and others. All Rights Reserved.

## 8. libjpeg

Copyright (C) 1994-1997, Thomas G. Lane.

Copyright (C) 1991-1997, Thomas G. Lane.

Copyright (C) 1991-1998, Thomas G. Lane.

Copyright (C) 1991-1997, Thomas G. Lane.

Modified 1997-2018 by Guido Vollbeding.

Modified 1997-2019 by Guido Vollbeding.

Modified 2002-2019 by Guido Vollbeding.

Modified 1997-2013 by Guido Vollbeding.

This file is part of the Independent JPEG Group's software.

For conditions of distribution and use, see the accompanying README file.

## 9. libunibreak

Copyright (C) 2008-2016 Wu Yongwei <wuyongwei at gmail dot com>

Copyright (C) 2013 Petr Filipisky <philodej at gmail dot com>

Copyright (C) 2013-2016 Tom Hacoen <tom at stosb dot com>

Copyright (C) 2015-2016 Wu Yongwei <wuyongwei at gmail dot com>

Copyright (C) 2016 Andreas Röver <roever at users dot sf dot net>

This software is provided 'as-is', without any express or implied warranty. In no event will the author be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgement in the product documentation would be appreciated but is not required.

2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

## 10. linux-bsp

Copyright (c) 2021, Renesas Electronics Corporation  
All rights reserved.

An interface for efficient virtio implementation, currently for use by KVM, but hopefully others soon. Do NOT change this since it will break existing servers and clients.

This header is BSD licensed so anyone can use the definitions to implement compatible drivers/servers.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of IBM nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL IBM OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY



OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright Rusty Russell IBM Corporation 2007.

\*\*\*\*\*

Copyright (c) 2021, Renesas Electronics Corporation  
All rights reserved.

This header, excluding the `#ifdef __KERNEL__` part, is BSD licensed so anyone can use the definitions to implement compatible drivers/servers.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of IBM nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL IBM OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

## 11. open-amp

Copyright (c) 2011, Bryan Venteicher <bryanv@FreeBSD.org>  
All rights reserved.

SPDX-License-Identifier: BSD-2-Clause

\*\*\*\*\*

Copyright (c) 2011 Google, Inc.  
Copyright (c) 2011 Texas Instruments, Inc.  
Copyright (c) 2014, Mentor Graphics Corporation  
Copyright (c) 2016 Freescale Semiconductor, Inc.  
Copyright (c) 2018 Linaro, Inc.  
Copyright (c) 2018 Linaro, Inc.  
Copyright (c) 2018 Xilinx Ltd.  
Copyright (c) 2021 Nordic Semiconductor ASA  
Copyright (c) 2022, Renesas Electronics Corporation  
All rights reserved.

SPDX-License-Identifier: BSD-3-Clause

## 12. OpenBSD

Copyright (c) 2010 Damien Miller. All rights reserved.

Permission to use, copy, modify, and distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

### 13. OpenGL

Copyright (c) 2013-2016 The Khronos Group Inc.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and/or associated documentation files (the "Materials"), to deal in the Materials without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Materials, and to permit persons to whom the Materials are furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Materials.

THE MATERIALS ARE PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE MATERIALS OR THE USE OR OTHER DEALINGS IN THE MATERIALS.

### 14. OpenGL ES

Copyright (c) 2017 The Khronos Group Inc.

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

## 15. Python programming language

This file is a modified version of Python 2.2/2.2.1 Python.h. As such it is:

Copyright (c) 2001, 2002 Python Software Foundation; All Rights Reserved

boostinspect:nolicense (don't complain about the lack of a Boost license)

## 16. Renesas Electronics Corporation/Renesas Electronics Europe GmbH 製ソフトウェア

Copyright (c) [2021-2022] Renesas Electronics Corporation

Copyright (c) [2019-2020] Renesas Electronics (Europe) GmbH.

This software is released under the MIT License

<http://opensource.org/licenses/mit-license.php>

## 17. Renesas Electronics Corporation 製ソフトウェア

Copyright (c) 2018, Renesas Electronics Corporation. All rights reserved.

Copyright (c) 2015-2017, Renesas Electronics Corporation. All rights reserved.

SPDX-License-Identifier: BSD-3-Clause

\*\*\*\*\*

Copyright (c) 2021, Renesas Electronics Corporation

All rights reserved.

Virtio IDs

This header is BSD licensed so anyone can use the definitions to implement compatible drivers/servers.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the

documentation and/or other materials provided with the distribution.

3. Neither the name of IBM nor the names of its contributors  
may be used to endorse or promote products derived from this software  
without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS ``AS  
IS" AND

ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE  
IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR  
PURPOSE

ARE DISCLAIMED. IN NO EVENT SHALL IBM OR CONTRIBUTORS BE LIABLE  
FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL  
DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS  
OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION)  
HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT,  
STRICT

LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY  
OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF  
SUCH DAMAGE.

\*\*\*\*\*

Copyright (c) [2019-2020] Renesas Electronics (Europe) GmbH.

Copyright (c) [2021-2022] Renesas Electronics Corporation

This software is released under the MIT License.

<http://opensource.org/licenses/mit-license.php>

## 18. The FreeType Project

Copyright (C) 1996-2020 by

Copyright (C) 2000-2020 by

Copyright (C) 2001-2020 by

Copyright (C) 2002-2020 by

Copyright (C) 2003-2020 by

Copyright (C) 2004-2020 by

Copyright (C) 2006-2020 by

Copyright (C) 2007-2020 by

Copyright (C) 2008-2020 by

Copyright (C) 2017-2020 by

Copyright (C) 2018-2020 by

Copyright (C) 2020 by

David Turner, Robert Wilhelm, and Werner Lemberg.

This file is part of the FreeType project, and may only be used, modified, and distributed under the terms of the FreeType project license, LICENSE.TXT. By continuing to use, modify, or distribute this file you indicate that you have read the license and understand and accept it fully.

\*\*\*\*\*

Copyright (C) 1996-2020 by

Just van Rossum, David Turner, Robert Wilhelm, and Werner Lemberg.

This file is part of the FreeType project, and may only be used, modified, and distributed under the terms of the FreeType project license, LICENSE.TXT. By continuing to use, modify, or distribute this file you indicate that you have read the license and understand and accept it fully.

\*\*\*\*\*

Copyright (C) 2004-2020 by

Masatake YAMATO, Redhat K.K,

David Turner, Robert Wilhelm, and Werner Lemberg.

This file is part of the FreeType project, and may only be used, modified, and distributed under the terms of the FreeType project license, LICENSE.TXT. By continuing to use, modify, or distribute this file you indicate that you have read the license and understand and accept it fully.

\*\*\*\*\*

Copyright (C) 2007-2020 by

Derek Clegg and Michael Toftdal.

This file is part of the FreeType project, and may only be used, modified, and distributed under the terms of the FreeType project license, LICENSE.TXT. By continuing to use, modify, or distribute this file you indicate that you have read the license and

understand and accept it fully.

\*\*\*\*\*

Copyright (C) 2010-2020 by  
Joel Klinghed.

This file is part of the FreeType project, and may only be used,  
modified, and distributed under the terms of the FreeType project  
license, LICENSE.TXT. By continuing to use, modify, or distribute  
this file you indicate that you have read the license and  
understand and accept it fully.

19. TinyXML

This software is provided 'as-is', without any express or implied  
warranty. In no event will the authors be held liable for any  
damages arising from the use of this software.

Permission is granted to anyone to use this software for any  
purpose, including commercial applications, and to alter it and  
redistribute it freely, subject to the following restrictions:

- 1. The origin of this software must not be misrepresented; you must  
not claim that you wrote the original software. If you use this  
software in a product, an acknowledgment in the product documentation  
would be appreciated but is not required.
- 2. Altered source versions must be plainly marked as such, and  
must not be misrepresented as being the original software.
- 3. This notice may not be removed or altered from any source  
distribution.

\*\*\*\*\*

Original code (2.0 and earlier )copyright (c) 2000-2006 Lee Thomason (www.grinninglizard.com)

This software is provided 'as-is', without any express or implied  
warranty. In no event will the authors be held liable for any

damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

\*\*\*\*\*

[www.sourceforge.net/projects/tinysql](http://www.sourceforge.net/projects/tinysql)

Original code by Lee Thomason ([www.grinninglizard.com](http://www.grinninglizard.com))

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.



\*\*\*\*\*

[www.sourceforge.net/projects/tinysql](http://www.sourceforge.net/projects/tinysql)

Original code (2.0 and earlier )copyright (c) 2000-2006 Lee Thomason ([www.grinninglizard.com](http://www.grinninglizard.com))

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

## 20. ucdn

Copyright (C) 2012 Grigori Goronzy <[greg@kinoho.net](mailto:greg@kinoho.net)>

Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted, provided that the above copyright notice and this permission notice appear in all copies.

THE SOFTWARE IS PROVIDED "AS IS" AND THE AUTHOR DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL THE AUTHOR BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

## 21. Xilinx, Inc.製ソフトウェア

Copyright (c) 2014, Mentor Graphics Corporation

Copyright (c) 2015-2016 Xilinx, Inc.

All rights reserved.

SPDX-License-Identifier: BSD-3-Clause

## 22. zlib

Copyright (C) 1995-2022 Jean-loup Gailly and Mark Adler

This software is provided 'as-is', without any express or implied warranty. In no event will the authors be held liable for any damages arising from the use of this software.

Permission is granted to anyone to use this software for any purpose, including commercial applications, and to alter it and redistribute it freely, subject to the following restrictions:

1. The origin of this software must not be misrepresented; you must not claim that you wrote the original software. If you use this software in a product, an acknowledgment in the product documentation would be appreciated but is not required.
2. Altered source versions must be plainly marked as such, and must not be misrepresented as being the original software.
3. This notice may not be removed or altered from any source distribution.

Jean-loup Gailly

jloup@gzip.org

Mark Adler

madler@alumni.caltech.edu