# ılıılı cısco



# Open Source Used In SONiC Cisco 8000 202205.1.2

Cisco Systems, Inc.

www.cisco.com

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco website at www.cisco.com/go/offices.

Text Part Number: 78EE117C99-1513633527

This document contains licenses and notices for open source software used in this product. With respect to the free/open source software listed in this document, if you have any questions or wish to receive a copy of any source code to which you may be entitled under the applicable free/open source license(s) (such as the GNU Lesser/General Public License), please submit this form.

In your requests please include the following reference number 78EE117C99-1513633527

### Contents

1.1 google-test 1.12.1

1.1.1 Available under license

1.2 libtomcrypt 1.17

1.2.1 Available under license

1.3 grub2 2.0

1.3.1 Available under license

1.4 csrp 1.0

1.4.1 Available under license

1.5 jansson 2.7

1.5.1 Available under license

1.6 google-test 1.11.0

1.6.1 Available under license

1.7 libtommath 0.42.0

1.7.1 Available under license

## 1.1 google-test 1.12.1

#### 1.1.1 Available under license :

Copyright 2008, Google Inc. 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 Google Inc. 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. # This file contains a list of people who've made non-trivial # contribution to the Google C++ Testing Framework project. People # who commit code to the project are encouraged to add their names # here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com> Balzs Dn <balazs.dan@gmail.com> Benoit Sigoure <tsuna@google.com> Bharat Mediratta <br/>bharat@menalto.com> Bogdan Piloca <boo@google.com> Chandler Carruth <chandlerc@google.com> Chris Prince <cprince@google.com> Chris Taylor <taylorc@google.com> Dan Egnor <egnor@google.com> Dave MacLachlan <dmaclach@gmail.com> David Anderson </ danderson@google.com> Dean Sturtevant Eric Roman <eroman@chromium.org> Gene Volovich <gv@cite.com> Hady Zalek <hady.zalek@gmail.com> Hal Burch <gmock@hburch.com> Jeffrey Yasskin <jyasskin@google.com> Jim Keller <jimkeller@google.com> Joe Walnes <joe@truemesh.com> Jon Wray <jwray@google.com> Ji Sigursson <joi@google.com> Keir Mierle <mierle@gmail.com> Keith Ray <keith.ray@gmail.com> Kenton Varda <kenton@google.com> Kostya Serebryany <kcc@google.com> Krystian Kuzniarek <krystian.kuzniarek@gmail.com> Lev Makhlis Manuel Klimek <klimek@google.com> Mario Tanev <radix@google.com> Mark Paskin Markus Heule <markus.heule@gmail.com> Martijn Vels <mvels@google.com> Matthew Simmons <simmonmt@acm.org> Mika Raento <mikie@iki.fi> Mike Bland <mbland@google.com> Mikls Fazekas <mfazekas@szemafor.com> Neal Norwitz <nnorwitz@gmail.com> Nermin Ozkiranartli <nermin@google.com> Owen Carlsen <ocarlsen@google.com> Paneendra Ba <paneendra@google.com> Pasi Valminen <pasi.valminen@gmail.com> Patrick Hanna <phanna@google.com> Patrick Riley <pfr@google.com> Paul Menage <menage@google.com> Peter Kaminski <piotrk@google.com> Piotr Kaminski <piotrk@google.com> Preston Jackson <preston.a.jackson@gmail.com> Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com> Russ Cox <rsc@google.com> Russ Rufer <russ@pentad.com> Sean Mcafee <eefacm@gmail.com> Sigurur sgeirsson <siggi@google.com> Sverre Sundsdal <sundsdal@gmail.com> Szymon Sobik <sobik.szymon@gmail.com> Takeshi Yoshino <tyoshino@google.com> Tracy Bialik <tracy@pentad.com> Vadim Berman <vadimb@google.com> Vlad Losev <vladl@google.com> Wolfgang Klier <wklier@google.com> Zhanyong Wan <wan@google.com>

# 1.2 libtomcrypt 1.17

### 1.2.1 Available under license :

# /\*

- # \* SHA-512
- # \* Implementation derived from LibTomCrypt (Tom St Denis)
- # \*
- # \* LibTomCrypt is a library that provides various cryptographic
- # \* algorithms in a highly modular and flexible manner.
- # \*
- # \* The library is free for all purposes without any express
- # \* guarantee it works.

# \* Tom St Denis, tomstdenis@gmail.com, http://libtomcrypt.org

# \*/

#

## 1.3 grub2 2.0

### 1.3.1 Available under license :

Format: https://www.debian.org/doc/packaging-manuals/copyright-format/1.0/ Upstream-Name: cisco-pacific-sdk Source: http://engci-maven.cisco.com/artifactory/leaba-others/sdk/releases/pacific-sdk-{SDK\_VER}-src.tar.gz

Files: \*

Copyright (c) 2016-2018 Leaba Semiconductor Ltd. Copyright (c) 2019 Cisco Systems, Inc.

#Copyright: <years> <put author's name and email here>

# <years> kewise for another author>

#License: <special license>

# <Put the license of the package here indented by 1 space>

# <This follows the format of Description: lines in control file>

#.

# <Including paragraphs>

#

Files: debian/\*

Copyright: 2019 Cisco Systems, Inc.

License: GPL-2+

This package is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

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

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

On Debian systems, the complete text of the GNU General Public License version 2 can be found in "/usr/share/common-licenses/GPL-2".

## 1.4 csrp 1.0

### 1.4.1 Available under license :

Copyright (c) 2010, Tom Cocagne 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 the Python Software Foundation 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 TOM COCAGNE 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.

### 1.5 jansson 2.7

#### 1.5.1 Available under license :

Copyright (c) 2009-2018 Petri Lehtinen <petri@digip.org>

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

### **1.6 google-test 1.11.0** 1.6.1 Available under license :

Copyright 2008, Google Inc. 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 Google Inc. 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.

> Apache License Version 2.0, January 2004 http://www.apache.org/licenses/

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

#### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License. "Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution." "Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

- 2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
- 3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
- 4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
  - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
  - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
  - (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
  - (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not

pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

- 5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
- 6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
- 7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
- 8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special,

incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

#### END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [2007] Neal Norwitz Portions Copyright [2007] Google 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.
# This file contains a list of people who've made non-trivial
# contribution to the Google C++ Testing Framework project. People

# who commit code to the project are encouraged to add their names

# here. Please keep the list sorted by first names.

Ajay Joshi <jaj@google.com> Balzs Dn <balazs.dan@gmail.com> Benoit Sigoure <tsuna@google.com> Bharat Mediratta <bharat@menalto.com> Bogdan Piloca <boo@google.com> Chandler Carruth <chandlerc@google.com> Chris Prince <cprince@google.com> Chris Taylor <taylorc@google.com> Dan Egnor <egnor@google.com> Dave MacLachlan <dmaclach@gmail.com> David Anderson <danderson@google.com> Dean Sturtevant Eric Roman <eroman@chromium.org> Gene Volovich <gv@cite.com> Hady Zalek <hady.zalek@gmail.com> Hal Burch <gmock@hburch.com> Jeffrey Yasskin <jyasskin@google.com> Jim Keller <jimkeller@google.com> Joe Walnes <joe@truemesh.com> Jon Wray <jwray@google.com> Ji Sigursson <joi@google.com> Keir Mierle <mierle@gmail.com> Keith Ray <keith.ray@gmail.com> Kenton Varda <kenton@google.com> Kostya Serebryany <kcc@google.com> Krystian Kuzniarek <krystian.kuzniarek@gmail.com> Lev Makhlis Manuel Klimek <klimek@google.com> Mario Tanev <radix@google.com> Mark Paskin Markus Heule <markus.heule@gmail.com> Matthew Simmons <simmonmt@acm.org> Mika Raento <mikie@iki.fi> Mike Bland <mbland@google.com> Mikls Fazekas <mfazekas@szemafor.com> Neal Norwitz <nnorwitz@gmail.com> Nermin Ozkiranartli <nermin@google.com> Owen Carlsen <ocarlsen@google.com> Paneendra Ba <paneendra@google.com> Pasi Valminen <pasi.valminen@gmail.com> Patrick Hanna <phanna@google.com> Patrick Riley <pfr@google.com> Paul Menage <menage@google.com> Peter Kaminski <piotrk@google.com> Piotr Kaminski <piotrk@google.com> Preston Jackson <preston.a.jackson@gmail.com>

Rainer Klaffenboeck <rainer.klaffenboeck@dynatrace.com> Russ Cox <rsc@google.com> Russ Rufer <russ@pentad.com> Sean Mcafee <eefacm@gmail.com> Sigurur sgeirsson <siggi@google.com> Sverre Sundsdal <sundsdal@gmail.com> Takeshi Yoshino <tyoshino@google.com> Tracy Bialik <tracy@pentad.com> Vadim Berman <vadimb@google.com> Vlad Losev <vladl@google.com> Wolfgang Klier <wklier@google.com> Zhanyong Wan <wan@google.com>

### 1.7 libtommath 0.42.0

#### 1.7.1 Available under license :

LibTomMath is hereby released into the Public Domain.

-- Tom St Denis

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)

©2022 Cisco Systems, Inc. All rights reserved.