**OPEN SOURCE SOFTWARE NOTICE**

The open source software notice for the open source software used in this openEuler distribution (“openEuler distribution”) is provided in this document. The open source software licenses are granted by the respective right holders. With regard to the respective open source software contained in the openEuler distribution, the applicable open source software license will prevail all other license agreement, including but not limited to the openEuler Software License, in case of any conflicts.

**Warranty Disclaimer**

**THE OPEN SOURCE SOFTWARE IN THIS OPENEULER DISTRIBUTION IS PROVIDED ON AN "AS IS" BASIS, WITHOUT ANY WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.  
See the applicable licenses for more details.**

**Copyright Notice and License Texts**

Software: ghc-crypton 0.33

**Copyright notice:**

Copyright (c) 2014 Vincent Hanquez <vincent@snarc.org>  
Copyright 2008, Google Inc.  
Copyright (c) 2014-2015 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) 2015 Cryptography Research, Inc. Released under the MIT License. See LICENSE.txt for license information.  
Copyright (c) 2014 Cryptography Research, Inc. Released under the MIT License. See LICENSE.txt for license information.  
Copyright 2013 The Android Open Source Project  
Copyright (c) 2006-2010 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) 2008 Vincent Hanquez <tab@snarc.org>  
Copyright (c) 2015 Cryptography Research, Inc.  
Copyright (c) 2020 Olivier Chéron <olivier.cheron@gmail.com>  
Copyright (c) 2014 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) 2014 Cryptography Research, Inc.  
Copyright (c) 2014-2016 Cryptography Research, Inc.  
Copyright (c) 2016 Cryptography Research, Inc.  
Copyright (c) 2012 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) 2006-2009 Vincent Hanquez <vincent@snarc.org>  
Copyright 2012, Samuel Neves <sneves@dei.uc.pt>.   
Copyright (c) 2012 Vincent Hanquez <tab@snarc.org>  
Copyright (c) 2016 Brandon Hamilton <brandon.hamilton@gmail.com>  
Copyright (c) 2013 Vincent Hanquez <tab@snarc.org>  
Copyright (c) 2012 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) 2008 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) thomas dubuisson.  
Copyright (c) 2006-2015 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) Thomas DuBuisson  
Copyright 2015 Daniel Dinu, Dmitry Khovratovich, Jean-Philippe Aumasson, and Samuel Neves  
Copyright (c) 2012-2013 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) 2006-2014 Vincent Hanquez <vincent@snarc.org>  
Copyright (c) 2015-2016 Cryptography Research, Inc. Released under the MIT License. See LICENSE.txt for license information.

**License:** BSD-3-Clause

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 copyright holder 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.