**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:** opus 1.4

**Copyright notice:**

(C) COPYRIGHT 1994-2002 Xiph.Org Foundation Modified by Jean-Marc Valin  
Copyright (c) 2013 Jean-Marc Valin and John Ridges  
Copyright (c) 2003-2004, Mark Borgerding Lots of modifications by Jean-Marc Valin  
Copyright (c) 2008 Gregory Maxwell Written by Jean-Marc Valin and Gregory Maxwell /  
Copyright (c) 2017 Jean-Marc Valin  
Copyright (c) 2008-2011 Xiph.Org Foundation, Mozilla Corporation, Gregory Maxwell Written by Jean-Marc Valin, Gregory Maxwell, and Timothy B. Terriberry /  
Copyright (c) 2011, Skype Limited. All rights reserved.  
Copyright (c) 2012 IETF Trust and the persons identified as the document authors. All rights reserved.  
Copyright (c) 2011-2012 Xiph.Org Foundation, Mozilla Corporation Written by Jean-Marc Valin and Timothy B. Terriberry /  
Copyright (c) 2011 Xiph.Org Foundation, Skype Limited Written by Jean-Marc Valin and Koen Vos /  
Copyright (c) 2008-2011 Xiph.Org Foundation, Mozilla Corporation Written by Jean-Marc Valin and Timothy B. Terriberry /  
Copyright (c) 2008-2012 Gregory Maxwell Written by Jean-Marc Valin and Gregory Maxwell /  
Copyright (c) 2017 IETF Trust and the persons identified as the document authors. All rights reserved.  
Copyright (c) 2007-2008 CSIRO  
Copyright (c) 2003-2004, Mark Borgerding  
2012-2017 Jean-Marc Valin /  
Copyright (c) 2008-2011 Xiph.Org Foundation Written by Jean-Marc Valin /  
Copyright (c) 2006-2011, Skype Limited. All rights reserved.  
Copyright (c) 2007-2008 Xiph.Org Foundation Written by Jean-Marc Valin /  
Copyright (c) 2017 Google Inc.  
Copyright (c) 2003-2008 Timothy B. Terriberry  
Copyright (c) 2007-2010 Xiph.Org Foundation  
Copyright (c) 2008, Xiph.Org Foundation, CSIRO  
Copyright (c) 2011 Xiph.Org Foundation Written by Gregory Maxwell /  
Copyright (c) 2001-2008 Timothy B. Terriberry  
Copyright (c) 2008-2009 Gregory Maxwell Written by Jean-Marc Valin and Gregory Maxwell /  
Copyright (C) 2001 Erik de Castro Lopo <erikd AT mega-nerd DOT com>  
Copyright (c) 2007-2009 Xiph.Org Foundation  
Copyright (c) 2016 Jean-Marc Valin  
Copyright (C) 2015 Vidyo  
Copyright (c) 2014-2020, Cisco Systems, INC Written by XiangMingZhu WeiZhou MinPeng YanWang FrancisQuiers  
Copyright (c) 2010 Xiph.Org Foundation, Skype Limited Written by Jean-Marc Valin and Koen Vos /  
Copyright (c) 2013 Jean-Marc Valin  
Copyright (c) 2014, Cisco Systems, INC Written by XiangMingZhu WeiZhou MinPeng YanWang  
Copyright (C) 2015 Vidyo 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.  
Copyright (c) 2013 Parrot 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.  
Copyright (c) 2011-2012 Jean-Marc Valin  
Copyright (c) 2010 Xiph.Org Foundation  
Copyright 2001-2011 Xiph.Org, Skype Limited, Octasic, Jean-Marc Valin, Timothy B. Terriberry, CSIRO, Gregory Maxwell, Mark Borgerding, Erik de Castro Lopo  
Copyright (c) 2013, Koen Vos. All rights reserved.  
Copyright (c) 2014 Vidyo.  
Copyright (c) 2017 Google Inc., Jean-Marc Valin 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.  
Copyright (C) 2003-2008 Jean-Marc Valin  
Copyright (c) 2002-2008 Jean-Marc Valin  
Copyright (c) 2007-2009 Xiph.Org Foundation Written by Jean-Marc Valin /  
Copyright (C) 2002-2003 Jean-Marc Valin  
Copyright (c) 2013 Parrot /  
Copyright (c) 2007 CSIRO  
Copyright (C) 2007 Jean-Marc Valin  
Copyright (c) 2007-2009 Timothy B. Terriberry Written by Timothy B. Terriberry and Jean-Marc Valin /  
Copyright (c) 2011 Xiph.Org Foundation Written by Jean-Marc Valin /  
Copyright (c) 2001-2011 Timothy B. Terriberry  
Copyright (c) 2007-2016 Jean-Marc Valin /  
Copyright (C) 2012 Xiph.Org Foundation 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.  
Copyright (c) 2008 Xiph.Org Foundation /  
Copyright (C) 2007-2008 CSIRO /  
Copyright (C) 2014 Vidyo 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.  
Copyright (C) 2013 Xiph.Org Foundation and contributors.  
Copyright (C) 2007-2012 Xiph.Org Foundation /  
Copyright (c) 2014, Cisco Systems, INC MingXiang WeiZhou MinPeng YanWang/  
Copyright (c) 2008-2009 Xiph.Org Foundation /  
Copyright (c) 2009-2010 Xiph.Org Foundation Written by Jean-Marc Valin /  
Copyright (c) 2008 Xiph.Org Foundation Written by Jean-Marc Valin /  
Copyright (c) 2013, Xiph.Org Foundation and contributors.  
Copyright (C) 2007-2008 CSIRO  
Copyright (C) 2007-2009 Xiph.Org Foundation  
Copyright (C) 2013 Parrot /  
Copyright (c) 2007-2011 Xiph.Org Foundation, Mozilla Corporation, Gregory Maxwell Written by Jean-Marc Valin, Gregory Maxwell, and Timothy B. Terriberry /  
Copyright (c) 2010-2011 Xiph.Org Foundation, Skype Limited Written by Jean-Marc Valin and Koen Vos /  
Copyright (c) 2005-2007, Xiph.Org Foundation  
Copyright (C) 2013 Xiph.Org Foundation and contributors  
Copyright (c) 2008-2011 Octasic Inc.  
Copyright (c) 2011-2013 Xiph.Org Foundation Written by Gregory Maxwell /  
Copyright (c) 2016 Mark Harris, Jean-Marc Valin  
Copyright (c) 2014-2015 Xiph.Org Foundation Written by Viswanath Puttagunta /  
Copyright (c) 2012 Xiph.Org Foundation Written by Jüri Aedla and Ralph Giles /  
Copyright (C) 2007-2009 Xiph.Org Foundation /  
Copyright (c) 2015 Xiph.Org Foundation Written by Viswanath Puttagunta /  
Copyright (c) 2003-2008 Jean-Marc Valin  
Copyright (c) 2012 Xiph.Org Foundation Written by Jean-Marc Valin /

**License:** BSD

BSD Zero Clause License  
Copyright (C) 2006 by Rob Landley <rob@landley.net>  
  
Permission to use, copy, modify, and/or distribute this software for any purpose with or without fee is hereby granted.  
  
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.