**OPEN SOURCE SOFTWARE NOTICE**

Please note we provide an open source software notice along with this product and/or this product firmware (in the following just “this product”). The open source software licenses are granted by the respective right holders. And the open source licenses prevail all other license information with regard to the respective open source software contained in the product, including but not limited to End User Software Licensing Agreement. This notice is provided on behalf of Huawei Technologies Co. Ltd. and any of its local subsidiaries which may have provided this product to you in your local country.

**Warranty Disclaimer**

**The open source software in this product 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 applicable licenses for more details.**

**Copyright Notice and License Texts**

**Software:** openmpi 2.1.1

**Copyright notice:**

Copyright (c) 2007 Voltaire All rights reserved.  
Copyright (c) 2006-2013 Los Alamos National Security, LLC.  
Copyright (c) 2006-2012 Cisco Systems, Inc. All rights reserved.  
Copyright(c) 2012-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2014-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007 Steven G. Johnson <stevenj@alum.mit.edu>  
Copyright (c) 2009 University of Houston. All rights reserved.  
Copyright (c) 2006 University of Houston. All rights reserved.  
Copyright (c) 2014 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2009-2015 Bull SAS. All rights reserved.  
Copyright (c) 2004-2005 The Regents of the University of California.  
Copyright 2006-2007 Niels Provos  
Copyright (c) 2017 Research Organization for Information Science dnl and Technology (RIST). All rights reserved.  
Copyright (c) 2009-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013-2017 Cisco Systems, Inc. All rights reserved.  
Copyright 2007-2012 Nick Mathewson and Niels Provos  
Copyright (c) 2012-2016 Los Alamos National Security, LLC.  
Copyright (c) 2011-2013 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2012-2013 Los Alamos National Security, LLC.  
Copyright (c) 2012 University of Houston. All rights reserved.  
Copyright (c) 2007-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2017 Cisco Systems, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2006-2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009-2011 The Trustees of Indiana University.  
Copyright (c) 2012-2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2014 Artem Y. Polyakov <artpol84@gmail.com>.  
Copyright © 2009-2010, 2012 Université Bordeaux See COPYING in top-level directory.  
Copyright (c) 2015 Artem Y. Polyakov <artpol84@gmail.com>.  
Copyright (c) 2016 University of Houston. All rights reserved.  
Copyright (c) 2013 Université Bordeaux. All rights reserved.  
Copyright (c) 2013-2015 Intel, Inc. All rights reserved  
Copyright (c) 2006 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015 NVIDIA, Inc. All rights reserved.  
Copyright © 2010-2014 Inria. All rights reserved.  
Copyright (c) 2009 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2000-2003 The Regents of the University of California.  
Copyright (C) 1994-2014 Free Software Foundation, Inc.  
Copyright © 2010 IBM See COPYING in top-level directory.  
Copyright (c) 2014-2015 Los Alamos National Security, LLC. All right reserved.  
! Copyright (c) 2010-2015 Cisco Systems, Inc. All rights reserved.  
! Copyright (c) 2010-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Bull SAS. All rights reserved.  
Copyright (c) 2007 Lawrence Livermore National Security, LLC.  
Copyright (c) 2014-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright 2005-2012 Nick Mathewson  
Copyright (c) 2006 Voltaire. All rights reserved.  
Copyright (c) 2011-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2011 Los Alamos National Security, LLC. All right reserved.  
Copyright (c) 2015 Intel, Inc. All rights reserved.  
Copyright (c) 2008-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2018 Mellanox Technologies, Inc.  
Copyright (c) 2011-2014 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2004-2008 The Regents of the University of California.  
Copyright (c) 2006-2011 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright (c) 2006-2010 University of Houston. All rights reserved.  
Copyright (c) 2014 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2009-2015 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009 Inria. All rights reserved.  
Copyright (c) 2009-2012 Oak Rigde National Laboratory. All rights reserved.  
Copyright (c) 2012-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2015-2017 Cisco Systems, Inc. All rights reserved  
Copyright © 2004-2008 High Performance Computing Center Stuttgart, dnl University of Stuttgart. All rights reserved.  
Copyright (C) 2004 University of Chicago.  
Copyright 2003 Michael A. Davis <mike@datanerds.net>  
Copyright 1992-2014 Free Software Foundation, Inc.  
Copyright (c) 2010-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2007 High Performance Computing Center Stuttgart  
Copyright (c) 2011-2014 Los Alamos National Security, LLC.  
Copyright (c) 2008 The Trustees of Indiana University and Indiana University Research and Technology Corporation.   
Copyright (c) 2010 Chris Davis, Niels Provos, and Nick Mathewson  
Copyright © 2015 Inria.

Copyright (c) 2013-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2011-2016 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright (c) 2006-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2008-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2011 Sandia National Laboratories. All rights reserved.  
Copyright (C) 2013 UChicago/Argonne, LLC See COPYRIGHT notice in top-level directory.  
Copyright (c) 2008-2017 Oak Ridge National Labs. All rights reserved.  
Copyright (C) 1996-2014 Free Software Foundation, Inc.  
Copyright (c) 2008-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2011 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2013 Mellanox Technologies, Inc.  
Copyright (c) 2011-2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2017 IBM Corporation. All rights reserved.  
Copyright (c) 2006-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2013 Intel Corporation. All rights reserved.  
Copyright (c) 2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007 Sun Microsystems, Inc. All rights reserverd.  
Copyright (C) 2014 Artem Polyakov <artpol84@gmail.com>  
Copyright (c) 2011-2013 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2004-2014 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2007-2011 University of Houston. All rights reserved.  
Copyright (c) 2007 Los Alamos National Security, LLC. All rights reserved.  
Copyright (C) 2014 Free Software Foundation, Inc.  
Copyright 2003-2009 Niels Provos <provos@citi.umich.edu>  
Copyright (c) 2004-2006 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2007 Mellanox Technologies, Inc. All rights reserved.  
Copyright (c) 2006-2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2008 Mellanox Technologies. All rights reserved.  
Copyright (c) 2014-2016 Los Alamos National Security, LLC. All rights reseved.  
Copyright (c) 2004-2007 The Trustees of Indiana University and Indiana dnl   
Copyright (c) 2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2008 Cisco Systems, Inc. All rights reserved.  
Copyright © 2012 Aleksej Saushev, The NetBSD Foundation  
Copyright (c) 2009 Cisco Systems, Inc. All Rights Reserved.  
Copyright (C) 1997-2014 Free Software Foundation, Inc.  
Copyright (c) 2007 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2007-2013 Los Alamos National Security, LLC.  
Copyright © 2012 Université Bordeau 1  
Copyright (c) 2015 Intel, Inc. All rights reserved .\ $COPYRIGHT$  
Copyright (c) 2016 ARM, Inc. All rights reserved.  
Copyright (c) 2013-2015 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2013 Intel, Inc. All rights reserved dnl dnl $COPYRIGHT$  
Copyright (c) 2011-2012 University of Houston. All rights reserved.  
Copyright 2000-2009 Niels Provos <provos@citi.umich.edu>  
Copyright (c) 2015 Intel, Inc. All rights reserved.  
Copyright (c) 2010-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 2002 University of Chicago.  
Copyright (C) 1992-1996, 1998-2012 Free Software Foundation, Inc.  
Copyright (c) 2012 Los Alamos National Security, Inc. All rights reserved.  
Copyright (c) 2011-2013 INRIA. All rights reserved.  
Copyright(C) 2008 by Argonne National Laboratory.  
Copyright (c) 2015 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2008 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 1998-2014 Free Software Foundation, Inc.  
Copyright (c) 2013-2015 Intel, Inc. All rights reserved.  
Copyright © 2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2007-2008 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (C) 1994 X Consortium  
Copyright (c) 2004-2005 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2015 Los Alamos National Security, LLC. All rights ! reserved.  
Copyright (c) 2011-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 Oak Ridge National Laboratory. All rights reserved  
Copyright © 2013 Université Bordeaux. All right reserved.  
Copyright (c) 2013-2014 Intel, Inc. All rights reserved.  
Copyright (c) 2014 Intel Corporation. All rights reserved.  
Copyright (c) 2011-2017 Cisco Systems, Inc.   
Copyright (c) 2008-2009 Institut National de Recherche en Informatique. All rights reserved.  
Copyright (c) 2006-2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2013 Los Alamos National Security, LLC. All rights  
Copyright (c) 2017 Intel, Inc. All rights reserved.  
Copyright (c) 2014-2017 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright(C) 2012 by Argonne National Laboratory.  
Copyright (c) 2015-2016 Cisco Systems, Inc. All rights reserved.  
Copyright(c) 2013-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2010-2011 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009-2011 Université Bordeaux See COPYING in top-level directory.  
Copyright (c) 2009-2017 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2004-2012 The Regents of the University of California.  
Copyright © 2004-2007 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright 2013-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008-2015 University of Houston. All rights reserved.  
Copyright (c) 2010 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2007-2017 Mellanox Technologies. All rights reserved.  
Copyright (c) 2004-2006 The Regents of the University of California.  
Copyright (c) 2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2008-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011 UT-Battelle, LLC. All rights reserved.  
Copyright 2000-2007 Niels Provos  
Copyright (c) 2007 Voltaire. All rights reserved.  
Copyright (c) 2006-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015 Mellanox Technologies, Inc. All rights reserved.  
Copyright (c) 2008 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2006-2007 Sun Microsystems, Inc. All rights reserved.  
Copyright (C) 2009. QLogic Corporation. All rights reserved.  
Copyright (c) 1993 The Regents of the University of California. All rights reserved.  
Copyright (c) 2016-2017 Intel, Inc. All rights reserved.  
Copyright (c) 2010-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2017 UT-Battelle, LLC. All rights reserved.  
Copyright(c) 2012-2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2009-2011 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2008 UT-Battelle, LLC  
Copyright (c) 2013 Mellanox Technologies, Inc.  
Copyright © 2004-2006 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2010-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2011 Los Alamos National Security, LLC.  
Copyright (c) 2009-2014 Los Alamos National Security, LLC.  
Copyright (c) 2012-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2014 Intel, Inc. All rights reserved.  
Copyright (c) 2009 IBM Corporation. All rights reserved.  
Copyright (c) 2007-2012 Niels Provos, Nick Mathewson  
Copyright (c) 2006 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2015 Los Alamos National Security, LLC. All rights reseved.  
Copyright © 2010-2013 Université Bordeaux  
Copyright (c) 2010-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2010-2017 Cisco Systems, Inc. All rights reserved dnl $COPYRIGHT$  
Copyright (c) 2006-2010 The University of Houston. All rights reserved.  
Copyright (c) 2013 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2009 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2012 Oak Rigde National Laboratory.  
Copyright (c) 2010-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2013 Universite Bordeaux 1  
Copyright (c) 2014-2015 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2012-2013 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2011-2017 Cisco Systems, Inc. All rights reserved  
Copyright (c) 2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010-2011 IBM Corporation. All rights reserved.  
Copyright (c) 2006-2007 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright © 2012-2013 Inria. All rights reserved.  
Copyright (c) 2011 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2013 University of Houston. All rights reserved.

Copyright (c) 2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011 FUJITSU LIMITED. All rights reserved.  
Copyright (c) 2006-2008 Sun Microsystems, Inc. All rights reserved.  
Copyright 2007-2012 Niels Provos, Nick Mathewson  
Copyright © 2013-2014 Inria. All rights reserved.  
Copyright © 2010-2011 Université Bordeaux  
Copyright (c) 2012-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2012-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 UT-Battelle, LLC. All rights reserved.  
Copyright © 2011-2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2013-2014 Intel, Inc. All rights reserved.  
Copyright (c) 2009-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Los Alamos National Security, LLC. All right reserved.  
Copyright (C) 1999 by Etnus, Inc.  
Copyright (c) 2010 Oracle and/or its affiliates. All rights reserved  
Copyright 2006-2008 Sun Microsystems, Inc.  
Copyright (c) 1990, 1993 The Regents of the University of California. All rights reserved.  
Copyright © 2009 CNRS  
Copyright (c) 2015 University of Houston. All rights reserved.  
Copyright (c) 2016 Los Alamos National Security, LLC. ALl rights reserved.  
Copyright (c) 2011 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2016 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright © 2009-2015 Inria. All rights reserved.  
Copyright © 2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2005 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2006 QLogic Corporation. All rights reserved.  
Copyright © 2009, 2011 Université Bordeaux  
Copyright (c) 2009-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright 2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2016 Broadcom Limited. All rights reserved.  
Copyright (c) 2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009 Institut National de Recherche en Informatique et Automatique. All rights reserved.  
Copyright (c) 2007-2011 Los Alamos National Security, LLC.  
Copyright © 2012 Inria. All rights reserved.  
Copyright (c) 2015 Los Alamos National Security, LLC. All rights received.  
Copyright (c) 2008-2012 University of Houston. All rights reserved.  
Copyright (c) 2012-2017 Cisco Systems, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2007-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 2005 University of Chicago.  
Copyright (c) 2009 Bull SAS. All rights reserved.  
Copyright (c) 2009-2010 The Trustees of Indiana University.  
Copyright (c) 2006-2009 Mellanox Technologies. All rights reserved.  
Copyright (c) 2014-2015 Intel, Inc. All rights reserved  
Copyright 2013-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright © 2009-2013 Inria. All rights reserved.  
Copyright (c) 2013-2015 Intel, Inc. All rights reserved.  
Copyright © 2004 Scott James Remnant <scott@netsplit.com>.  
Copyright (c) 2013-2014 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2007 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright (c) 2011-2015 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009 Cisco Systems, Inc. All rights reserved.  
Copyright(C) 2003 by Argonne National Laboratory.  
Copyright (c) 2014-2015 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013 Los Alamos National Security, LLC. All Rights reserved.  
Copyright (c) 2015-2016 Intel, Inc. All rights reserved.  
Copyright (c) 2013 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2006-2010 University of Houston. All rights reserved.  
Copyright (c) 2012-2015 Los Alamos National Security, LLC.  
Copyright (c) 2010-2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2007 Myricom, Inc. All rights reserved.  
Copyright (c) 2015 Mellanox Technologies. All rights reserved.  
Copyright (c) 2012-2015 Los Alamos National Security, LLC. All rights reserved $COPYRIGHT$  
Copyright (c) 2016 Mellanox Technologies Ltd. All rights reserved.  
Copyright (c) 2015 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2004-2005 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2008-2017 Cisco Systems, Inc. All rights reserved  
Copyright (c) 2011-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights  
Copyright (c) 2014-2015 Intel, Inc. All rights reserved.  
Copyright (c) 2010 Oak Ridge National Labs. All rights reserved.  
Copyright 2015 Los Alamos National Security, LLC. All rights .\ reserved.  
Copyright (c) 2010 Oak Ridge National Laboratory.  
Copyright (c) 2011-2012 Sandia National Laboratories. All rights reserved.  
Copyright © 2013 Inria. All rights reserved.  
Copyright (c) 2009 University of Houston. All rights reserved.  
Copyright (c) 2014-2016 Mellanox Technologies, Inc.  
Copyright (c) 2016 IBM Corporation, All rights reserved.  
Copyright (c) 2007 Sun Microsystems. All rights reserved.  
Copyright © 2004-2005 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2014-2015 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2009-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 Inria. All rights reserved.  
Copyright (c) 2014-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015-2017 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015-2017 Cisco Systems, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2012 FUJITSU LIMITED. All rights reserved.  
Copyright (c) 2004-2007 High Performance Computing Center Stuttgart, ! University of Stuttgart. All rights reserved.  
Copyright (c) 2012 Oak Rigde National Laboratory. All rights reserved.  
Copyright (c) 2004-2006 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2004-2006 The Regents of the University of California.  
Copyright (c) 2008-2013 University of Houston. All rights reserved.  
Copyright (C) 2001-2011 Mellanox Technologies Ltd. ALL RIGHTS RESERVED.  
Copyright (c) 2009 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2014-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright 2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>  
Copyright (c) 2008 Los Alamos National Security, LLC All rights reserved.  
Copyright © 2010-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2017 Cisco Systems, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2008-2017 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2016 Intel, Inc. All rights reserved.  
Copyright 2007-2008 Sun Microsystems, Inc.  
Copyright (c) 2007-2015 Los Alamos National Security, LLC.  
Copyright (c) 2014-2016 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright (c) 2009 Oak Ridge National Laboratory  
Copyright (c) 2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2014-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2011 The Trustees of the University of Tennessee.  
Copyright (c) 2014-2016 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2015-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2014-2015 Artem Y. Polyakov <artpol84@gmail.com>.  
Copyright (c) 2012-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2017 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009-2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2013 Los Alamos National Security, LLC. All rights reseved.  
Copyright © 2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Intel, Inc. All rights reserved dnl $COPYRIGHT$  
Copyright (c) 2011-2012 NVIDIA Corporation. All rights reserved.  
Copyright © 2009-2013, 2015 Université Bordeaux  
Copyright (c) 2004-2005 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2015 IBM Corporation. All rights reserved.  
Copyright (c) 2009-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2012 Niels Provos and Nick Mathewson  
Copyright (c) 2007-2008 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 1996 by Internet Software Consortium.  
Copyright (c) 2009-2013 Los Alamos National Security, LLC.  
Copyright (C) Mellanox Technologies Ltd. 2001-2014. ALL RIGHTS RESERVED.  
Copyright (c) 2008-2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2012 FUJITSU LIMITED. All rights reserved.  
Copyright (c) 2008-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014-2015 Intel, Inc. All rights reserved.  
Copyright (c) 2015 Mellanox Technologies. All rights reserved.  
Copyright (c) 2013-2017 Intel, Inc. All rights reserved.  
Copyright (c) 2004-2006 The Trustees of the University of Tennessee.  
Copyright (c) 2010-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015 Los Alamos National Security, LLC. All rights reseved.  
Copyright (c) 2013 Intel, Inc. All rights reserved  
Copyright (c) 2015 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2004-2008 The Trustees of Indiana University.  
Copyright (c) 2004-2010 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2006-2017 The University of Houston. All rights reserved.  
Copyright (c) 2006 Voltaire All rights reserved.  
Copyright (c) 2010-2011, A.V. Rzhanov Institute of Semiconductor Physics SB RAS.  
Copyright (c) 2007 Lawrence Livermore National Security, LLC. All rights reserved.  
Copyright (c) 2013-2015 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2013-2017 Research Organization for Information Science (RIST).  
Copyright (c) 2012-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 2007 UChicago/Argonne LLC.  
Copyright (c) 2008-2009 Mellanox Technologies. All rights reserved.  
Copyright(C) 2007 by Argonne National Laboratory.  
Copyright (c) 2004-2009 The Trustees of Indiana University.  
Copyright © 2009-2010, 2013 Université Bordeaux  
Copyright (c) 2011-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 1996 Thinking Machines Corporation .\ $COPYRIGHT$  
Copyright (c) 2007-2008 Chelsio, Inc. All rights reserved.  
Copyright (c) 2014-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010 IBM Corporation. All rights reserved.  
Copyright (c) 2007 Los Alamos National Security, LLC.  
Copyright (c) 2009-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008 Chelsio, Inc. All rights reserved.  
Copyright © 2004-2005 High Performance Computing Center Stuttgart, dnl University of Stuttgart. All rights reserved.  
Copyright © 2012 Inria. All rights reserved.  
Copyright (c) 2008 Institut National de Recherche en Informatique et Automatique. All rights reserved.  
Copyright (c) 2014-2016 Intel, Inc. All rights reserved.  
Copyright (c) 2001-2014 Mellanox Technologies Ltd. ALL RIGHTS RESERVED.  
Copyright (c) 2004-2016 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2009 IBM Corporation. All rights reserved.  
Copyright (c) 2009-2017 Cisco Systems, Inc. All rights reserved  
Copyright (c) 2012-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013 FUJITSU LIMITED. All rights reserved.  
Copyright(C) 2009 UChicago/Argonne LLC See COPYRIGHT in top-level directory.  
Copyright (c) 2004-2009 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2006-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012-2015 Mellanox Technologies, Inc.  
Copyright © 2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2011-2017 Fujitsu Limited. All rights reserved.  
Copyright (c) 2012 Los Alamos National Security, LLC. All rights reserved  
Copyright (c) 2012 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2011-2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2010 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2008-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2016 Intel Corporation. All rights reserved.  
Copyright (c) 2008 University of Houston. All rights reserved.  
Copyright (c) 2008 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2004-2013 The Trustees of the University of Tennessee.  
Copyright (c) 2006-2007 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2007 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2011 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008 UT-Battelle, LLC  
Copyright (c) 2012 Los Alamos National Security, LLC All rights reserved.  
Copyright (c) 2011-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2015-2016 Research Organization for Information Science ! and Technology (RIST). All rights reserved.  
Copyright (c) 2011-2012 IBM Corporation. All rights reserved.  
Copyright (c) 2013-2016 Intel, Inc. All rights reserved.  
Copyright (c) 2002-2007 Niels Provos <provos@citi.umich.edu>  
Copyright (c) 2006 Sun Microsystems Inc. All rights reserved.  
Copyright (c) 2017 Amazon.com, Inc. or its affiliates. All Rights dnl reserved.  
Copyright (c) 2012-2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2010 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2014-2015 Hewlett-Packard Development Company, LP. All rights reserved.  
Copyright (c) 2016 IBM Corporation. All rights reserved.  
Copyright (c) 2008-2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2015 NVIDIA Corporation. All rights reserved.  
Copyright © 2010-2012, 2014 Université Bordeaux  
Copyright (c) 2017 Mellanox Technologies, Inc.  
Copyright (c) 2006 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2008 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2012-2014 Los Alamos National Security, LLC.  
Copyright (c) 2010-2013 Cisco Systems, Inc. All rights reserved.  
Copyright(C) 2001 by Argonne National Laboratory.  
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2007-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014-2015 Intel Corporation. All rights reserved.  
Copyright (c) 2013-2014 NVIDIA Corporation. All rights reserved.  
Copyright © 2009 inria. All rights reserved.  
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2011 University of Houston. All rights reserved.  
Copyright (c) 2007 Evergrid, Inc. All rights reserved.  
Copyright 2000-2007 Niels Provos <provos@citi.umich.edu>  
Copyright © 2011-2012 Université Bordeaux  
Copyright (c) 2007 The Trustees of Indiana University.  
Copyright (c) 2012 Los Alamos National Security, LLC.

Copyright (c) 2006-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2006 The Trustees of Indiana University and Indiana !   
Copyright (c) 2012 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2012-2013 Inria. All rights reserved.  
Copyright (c) 2004-2011 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2011-2012 Cisco Systems, Inc. All rights reserved.  
Copyright 2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2004-2007 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2015 Intel, Inc.

Copyright 2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2017 Cisco Systems, Inc.   
Copyright (c) 2010-2011 Los Alamos National Security, LLC.  
Copyright © 2009-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2001-2006 The Trustees of Indiana University.  
Copyright (c) 2014-2016 Mellanox Technologies, Inc.  
Copyright (c) 2015 University of Houston. All rights reserved.  
Copyright (c) 2004-2006 The University of Tennessee and The University dnl of Tennessee Research Foundation. All rights dnl reserved.  
Copyright (c) 2012 The University of Wisconsin-La Crosse. All rights reserved.  
Copyright (c) 2006 The Technical University of Chemnitz. All rights reserved.  
Copyright (C) 2007 UChicago/Argonne LLC See COPYRIGHT notice in top-level directory.  
Copyright (C) 2001 Farooq Mela.  
Copyright (c) 2011 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2008-2014 University of Houston. All rights reserved.  
Copyright (c) 2012 Inria. All rights reserved.  
Copyright (c) 2006-2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2006-2010 QLogic Corporation. All rights reserved.  
Copyright (c) 2009-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2003 Michael A. Davis <mike@datanerds.net>  
Copyright (c) 2007-2008 UT-Battelle, LLC. All rights reserved.  
Copyright (c) 2009-2010 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013 Intel, Inc. All rights reserved.  
Copyright (c) 2007 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2012 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright 2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2005-2012 Niels Provos and Nick Mathewson  
Copyright (c) 2015 Bull SAS. All rights reserved.  
Copyright (c) 2010-2011 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2004-2008 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2015-2016 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2016-2017 Intel, Inc. All rights reserved.  
Copyright (c) 2007 Los Alamos National Security, LLC.  
Copyright © 2009, 2011, 2012 CNRS, inria., Université Bordeaux All rights reserved.  
Copyright © 2011-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2007 Mellanox Technologies. All rights reserved.  
Copyright (c) 2015-2016 Intel, Inc. All rights reserved.  
Copyright (c) 2008-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2010 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2006 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2004-2005 The Trustees of Indiana University and Indiana !   
Copyright (c) 2006-2017 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2006-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2004-2008 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (C) 1997-1998 Dolphin Interconnect Solutions Inc.  
Copyright (c) 2012-2013 Los Alamos Nat Security, LLC. All rights reserved.  
Copyright (c) 2013-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 1995 by International Business Machines, Inc.  
Copyright (c) 2006-2008 Sun Microsystems, Inc. All rights reserved.

Copyright (c) 2012-2015 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2015-2017 Mellanox Technologies. All rights reserved.  
Copyright (C) 1997 University of Chicago.  
Copyright (c) 2012-2015 Inria. All rights reserved.  
Copyright (c) 2010-2012 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2008-2010 Oracle and/or its affiliates. All rights reserved  
Copyright (c) 2008-2010 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2009 Sun Microsystems, Inc All rights reserved.  
Copyright (C) Mellanox Technologies Ltd. 2001-2015. ALL RIGHTS RESERVED.  
Copyright (c) 2015 University of Houston. All rights reserved.  
Copyright (c) 2006 QLogic Corp. All rights reserved.  
Copyright (c) 2010-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2011-2012 Universite Bordeaux 1  
Copyright (c) 2006-2007 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2000 Dug Song <dugsong@monkey.org>  
Copyright (C) Mellanox Technologies Ltd. 2001-2011. ALL RIGHTS RESERVED.  
Copyright © 2014 Inria. All rights reserved.  
Copyright (c) 2013-2017 Intel, Inc. All rights reserved.  
Copyright (c) 2008-2012 University of Houston. All rights reserved.  
Copyright (c) 2014 Hochschule Esslingen. All rights reserved.  
Copyright (c) 2010-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2000-2007 Niels Provos <provos@citi.umich.edu>  
Copyright (c) 2009-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2009 Myricom, Inc. All rights reserved.  
Copyright 2010-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012-2014 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2012-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2007-2012 Niels Provos and Nick Mathewson All rights reserved.  
Copyright (c) 2012-2013 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2011-2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2013-2015 University of Houston. All rights reserved.  
Copyright © 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright (c) 2017 Los Alamos National Security, LLC. All rights reseved.  
Copyright (c) 2015-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2011 Oracle and/or all its affiliates. All rights reserved.  
Copyright (c) 2007-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2007 IBM Corp., All rights reserved.  
Copyright (c) 2006-2007 Cisco Systems, Inc. All rights reserved.  
Copyright(c) 2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright © 2012 Blue Brain Project, EPFL. All rights reserved.  
Copyright (c) 2008-2011 University of Houston. All rights reserved.  
Copyright (c) 2013 Intel, Inc. All rights reserved  
CopyrightC Copyright (c) 2006-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2014 Mellanox Technologies, Inc.  
Copyright (c) 2010-2016 IBM Corporation. All rights reserved.  
Copyright (c) 2013-2014 Intel, Inc. All rights reserved  
Copyright (c) 2006-2010 Oracle and/or its affiliates. All rights reserved  
Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2014 NVIDIA Corporation. All rights reserved. University of Stuttgart. All rights reserved.  
Copyright (c) 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2008 Sun Microsystems, Inc. All rights reserved.  
Copyright (C) 2002-2014 Free Software Foundation, Inc.  
Copyright (c) 2004-2010 The Trustees of Indiana University.  
Copyright (c) 2015 Mellanox Technologies, Inc.  
Copyright (c) 2015 Intel, Inc. All rights reserved.  
Copyright (c) 2014 Artem Polyakov <artpol84@gmail.com>. All rights reserved.  
Copyright (c) 2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2007 Voltaire All rights reserved.  
Copyright (c) 2007-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010 Oracle and/or its affiliates. All rights reserved $COPYRIGHT$  
Copyright (c) 2012-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2007 Voltaire. All rights reserved.  
Copyright (c) 2007-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2013 Mellanox Technologies, Inc. All rights reserved.  
Copyright (c) 2015-2017 Mellanox Technologies, Inc.  
Copyright (c) 2013-2016 Los Alamos National Security, LLC. All rights reserved $COPYRIGHT$  
Copyright (c) 2007-2009 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013-2016 Los Alamos National Security, Inc. All rights reserved.  
Copyright (c) 2007-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2012 Oak Ridge National Laboratory. All rights reserved.  
Copyright (c) 2012-2017 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2013-2016 Los Alamos National Security, LLC. All Rights reserved.  
Copyright (c) 2008-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 2008 Sun Microsystems, Lustre group  
Copyright (C) 2006 University of Chicago.  
Copyright (c) 2012-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2013 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2017 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2002 Christopher Clark  
Copyright (c) 2016 Mellanox Technologies, Inc.  
Copyright (c) 2017 UT-Battelle, LLC. All rights reserved.  
Copyright (c) 2014 Los Alamos National Security, LLC.  
Copyright (c) 2004-2014 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright 2007-2008 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009 Université Bordeaux  
Copyright (c) 2014-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2007-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright(c) 2008-2013 Nathan Hjelm <hjelmn@cs.unm.edu>  
Copyright (c) 2013-2015 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2010-2016 Los Alamos National Security, LLC.  
dnl Copyright (c) 2014-2015 Intel, Inc. All rights reserved.  
Copyright (c) 2009 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2011-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2016 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2008 University of Houston, Inc. All rights reserved.  
Copyright (c) 2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012-2015 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2006-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2015-2017 Mellanox Technologies, Inc. All rights reserved.  
Copyright (c) 2014 Mellanox Technologies, Inc.  
Copyright (C) 2003 University of Chicago.  
Copyright (c) 2011-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright 2009-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Intel Corporation. All rights reserved.  
Copyright (c) 2012-213 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2010 QLogic Corporation. All rights reserved.  
Copyright (c) 2014 Intel, Inc. All rights reserved.  
Copyright © 2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Intel, Inc. All rights reserved  
Copyright © 2011 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2006-2007 Niels Provos <provos@citi.umich.edu>  
Copyright (c) 2006-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2013-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2013-2016 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2013-2017 University of Houston. All rights reserved.  
Copyright (c) 2007-2017 IBM Corporation. All rights reserved.  
Copyright (c) 2006 Voltaire, Inc. All rights reserved.  
Copyright (c) 2007 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2008-2016 University of Houston. All rights reserved.  
Copyright (c) 2008 UT-Battelle, LLC. All rights reserved.  
Copyright (c) 2013-2016 Intel, Inc. All rights reserved  
Copyright (c) 2011-2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2012-2015 Los Alamos National Security, Inc. All rights reserved.  
Copyright (C) 2003-2014 Free Software Foundation, Inc.  
Copyright © 2009-2011, 2013 Université Bordeaux  
Copyright (c) 2006-2008 University of Houston. All rights reserved.  
Copyright (c) 2010-2012 Niels Provos and Nick Mathewson  
Copyright (c) 2015 Los Alamos National Security, LLC.  
Copyright (c) 2004-2015 The Trustees of the University of Tennessee.  
Copyright (c) 2014 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2011 Mellanox Technologies. All rights reserved.  
Copyright (c) 2014-2016 Intel Corporation. All rights reserved.  
Copyright (C) 2011-2014 Free Software Foundation, Inc.  
Copyright (c) 2009 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2010-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2011-2013 UT-Battelle, LLC. All rights reserved.  
Copyright (c) 2016 Intel Corporation. All rights reserved.  
Copyright (c) 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Intel, Inc. All rights reserved  
Copyright © 2009-2011 Université Bordeaux  
Copyright © 2009-2016 Inria. All rights reserved.  
Copyright (c) 2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009-2011 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2010-2011 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2004-2007 The Trustees of the University of Tennessee.  
Copyright (c) 2011-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2014-2015 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2006 Sun Microsystems, Inc. All rights reserved.  
Copyright © 2009-2012 Université Bordeaux  
Copyright (c) 2006-2009 Mellanox Technologies, Inc. All rights reserved.  
Copyright (c) 2009-2017 Cisco Systems, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2006-2009 University of Houston. All rights reserved.  
Copyright (c) 2007-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2005 The Trustees of Indiana University.  
Copyright (c) 2010-2011, Siberian State University of Telecommunications and Information Sciences. All rights reserved.  
Copyright (c) 2007-2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (C) 2007 University of Chicago.  
Copyright (C) 1999-2014 Free Software Foundation, Inc.  
Copyright (c) 2012-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2009-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 Los Alamos National Security, LLC All rights reserved  
Copyright (c) 2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 1996, David Mazieres <dm@uun.org>  
Copyright (c) 2010-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006 QLogic Corp. All rights reserved.  
Copyright (c) 2010-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014-2015 Los Alamos National Security, LLC. ALl rights reserved.  
Copyright (c) 2008-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012-2014 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2013-2016 Mellanox Technologies, Inc.  
Copyright (c) 2011 Mellanox Technologies. All rights reserved.  
Copyright (c) 2016 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2009-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2006-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright © 2008-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2013-2015 Los Alamos National Security, LLC. All rights ! reserved.  
Copyright (c) 2013-2017 Cisco Systems, Inc. All rights reserved $COPYRIGHT$  
Copyright © 2004-2005 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (C) 2008 University of Chicago.  
Copyright (c) 2017 Cisco Systems, Inc.  
Copyright (c) 2008-2009 Sun Microystems, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2007 Sun Microsystem, Inc. All rights reserved.  
Copyright (c) 2008-2017 University of Houston. All rights reserved.  
Copyright (c) 2011-2012 Los Alamos National Security, LLC.  
Copyright (c) 2004-2011 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2015-2017 Intel, Inc. All rights reserved.  
Copyright (c) 2006-2012 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright 2007, Sun Microsystems, Inc.  
Copyright (c) 2006-2017 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014 Mellanox Technologies, Inc.  
Copyright (c) 2010-2013 Los Alamos National Security, LLC.  
Copyright (c) 2016 Research Organization for Information Science ! and Technology (RIST). All rights reserved.  
Copyright (c) 2011 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2011-2015 NVIDIA. All rights reserved.  
Copyright (c) 2007-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013-2016 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright 2000-2007 Niels Provos  
Copyright (c) 2015 Mellanox Technologies, Inc.  
Copyright 2009-2012 Niels Provos and Nick Mathewson  
Copyright (c) 2010-2012 Los Alamos National Security, LLC.  
Copyright (c) 2005-2007 Niels Provos <provos@citi.umich.edu>  
Copyright © 2012 Blue Brain Project, BBP/EPFL. All rights reserved.  
Copyright (c) 2013-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2017 Intel, Inc. All rights reserved.  
Copyright(C) 2013 UChicago/Argonne LLC See COPYRIGHT in top-level directory.  
Copyright (c) 2007-2012 Los Alamos National Security, LLC.  
Copyright (C) 2001 University of Chicago.  
Copyright (c) 2014 Artem Polyakov <artpol84@gmail.com>  
Copyright (c) 2015-2016 Mellanox Technologies, Inc.  
Copyright (c) 2013 Mellanox Technologies, Inc.  
Copyright (c) 2012-2013 Los Alamos National Security, Inc. All rights reserved.  
Copyright (C) 2010-2014 Free Software Foundation, Inc.  
Copyright (c) 2010-2012 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2010-2015 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2006-2012 Mellanox Technologies. All rights reserved.  
Copyright (c) 2011-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2010-2012 IBM Corporation. All rights reserved.  
Copyright (c) 2002, Christopher Clark All rights reserved.  
Copyright (c) 2011-2013 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2015 NVIDIA, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2010 Cisco Systems, Inc. All rights reserved.  
Copyright © 2004-2005 The Regents of the University of California.  
Copyright (c) 2011-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright © 2009-2015 Inria. All rights reserved.  
Copyright (c) 2009-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2007-2008 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2010-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008-2012 Niels Provos and Nick Mathewson  
Copyright (c) 2010 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 2009-2014 Free Software Foundation, Inc.  
Copyright (c) 2009-2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2007-2008 Mellanox Technologies. All rights reserved.  
Copyright (c) 2006-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014-2015 Hewlett-Packard Development Company, LP.  
Copyright (c) 2004-2006 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2006-2007 Los Alamos National Security, LLC.  
Copyright (c) 2008-2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2009-2015 Inria. All rights reserved.  
Copyright (c) 2004-2009 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2016 Research Organization for Information Science dnl and Technology (RIST). All rights reserved.  
Copyright 2007-2012 Niels Provos and Nick Mathewson dnl dnl See LICENSE for copying information.  
Copyright (c) 2007-2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2004-2012 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (C) 2011 Free Software Foundation, Inc.  
Copyright (c) 2016 Intel, Inc. All rights reserved.  
Copyright (c) 2012 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright (c) 2006-2007 University of Houston. All rights reserved.  
Copyright (c) 2008-2009 University of Houston. All rights reserved.  
Copyright (c) 2013 Los Alamos National Security, LLC.  
Copyright (c) 2016 Mellanox Technologies, Inc.  
Copyright (c) 2017 IBM Corporation. All rights reserved.  
Copyright (c) 2007-2017 Cisco Systems, Inc. All rights reserved  
Copyright (c) 2012 Los Alamos National Security, LLC.  
Copyright (C) 1997-2001 University of Chicago.  
Copyright (c) 2009-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2012 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2006 The Technical University of Chemnitz. All rights reserved.  
Copyright © 2015 Intel, Inc. All rights reserved.  
Copyright (c) 2004-2008 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright © 2004-2012 The Regents of the University of California.  
Copyright (c) 2017 Los Alamos National Security, LLC. All rights .\ reserved.  
Copyright (c) 2004-2009 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2011-2017 IBM Corporation. All rights reserved.  
Copyright 2005, Nick Mathewson. Implementation logic is adapted from code by Cristopher Clark, retrofit to allow drop-in memory management, and to use the same interface as Niels Provoss tree.h. This is probably still a derived work, so the original license below still applies.  
Copyright (c) 2014-2015 Intel, Inc. All right reserved.  
Copyright (c) 2012 Oak Rigde National Laboratory. All rights reserved.  
Copyright (c) 2004-2014 High Performance Computing Center Stuttgart, !   
Copyright (c) 2004-2005 The University of Tennessee and The University ! of Tennessee Research Foundation. All rights ! reserved.  
Copyright (c) 2012 University of Oregon. All rights reserved.  
Copyright (c) 2007-2010 IBM Corporation. All rights reserved.  
Copyright (c) 2011 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2009-2015 Los Alamos National Security, LLC.  
Copyright (c) 2015-2017 Research Organization for Information Science dnl and Technology (RIST). All rights reserved.  
Copyright (c) 2012 Los Alamos National Security, Inc. All rights reserved.  
Copyright © 2009-2013 Université Bordeaux  
Copyright (c) 2013-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009-2012 Los Alamos National Security, LLC.  
Copyright (C) 2015 Mellanox Technologies Ltd. ALL RIGHTS RESERVED.  
Copyright (c) 2011-2012 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014-2016 Intel, Inc. All rights reserved.  
Copyright (c) 2017 UT-Battelle, LLC. All rights reserved.  
Copyright (c) 2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2008-2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015 Los Alamos National Security, Inc. All rights reserved.  
Copyright (c) 2006-2015 Los Alamos National Security, LLC.  
Copyright (c) 2007 Los Alamos National Security, LLC. All rights ! reserved.  
Copyright 2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright © 2015 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2007 The Regents of the University of California.  
Copyright (c) 2006-2017 Cisco Systems, Inc. All rights reserved ! $COPYRIGHT$  
Copyright (C) 2001-2004 Farooq Mela.  
Copyright (c) 2008-2016 IBM Corporation. All rights reserved.  
Copyright (c) 2004-2005 The University of Tennessee and The University dnl of Tennessee Research Foundation. All rights dnl reserved.  
Copyright (c) 2009-2010 Oracle and/or its affiliates. All rights reserved  
Copyright © 2004-2005 The Trustees of Indiana University and Indiana dnl University Research and Technology dnl Corporation. All rights reserved.  
Copyright (c) 2011-2014 Los Alamos National Security, LLC. All rights dnl reserved.  
Copyright (c) 2014-2017 Mellanox Technologies, Inc.  
Copyright (c) 2014 Research Organization for Information Science dnl and Technology (RIST). All rights reserved.  
Copyright (c) 2006-2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2011 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2012-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2012 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2008-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2008-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009-2012 Oak Ridge National Laboratory. All rights reserved.  
Copyright (c) 2006-2008 University of Houston. All rights reserved.  
Copyright (c) 2014 Bull SAS. All rights reserved $COPYRIGHT$  
Copyright (c) 2004-2005 The Trustees of the University of Tennessee.  
Copyright (c) 2009 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright © 2012-2014 Inria. All rights reserved.  
Copyright (c) 2016-2017 IBM Corporation. All rights reserved.  
Copyright (c) 2004-2008 High Performance Computing Center Stuttgart, dnl University of Stuttgart. All rights reserved.  
Copyright (c) 2014-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2010 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2013-2014 Mellanox Technologies, Inc.  
Copyright 2007-2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2011-2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2013 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009-2011 inria. All rights reserved.  
Copyright (c) 2008-2009 Sun Microsystems, Inc. All rights reserved.  
dnl Copyright (c) 2001-2011 Mellanox Technologies Ltd. ALL RIGHTS RESERVED.  
Copyright (c) 2014 Intel, Inc. All rights reserved.  
Copyright (c) 2012 Los Alamos Nat Security, LLC. All rights reserved.  
Copyright (c) 2009-2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2010-2011 Oracle and/or its affiliates. All rights reserved  
Copyright (c) 2010 Los Alamos National Security, LLC.  
Copyright (c) 2006-2010 Voltaire, Inc. All rights reserved.  
Copyright (c) 1991, 1993 The Regents of the University of California. All rights reserved.  
Copyright (C) 1996-2001, 2003-2015 Free Software Foundation, Inc.  
Copyright 2015-2016 Los Alamos National Security, LLC. All rights reserved.

Copyright (c) 2015 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009, 2012 Université Bordeaux See COPYING in top-level directory.  
Copyright © 2009-2014 Inria. All rights reserved.  
Copyright (c) 2013 Inria. All rights reserved.  
Copyright (c) 2014-2016 Research Organization for Information Science dnl and Technology (RIST). All rights reserved.  
Copyright (c) 2015 NVIDIA, Inc. All rights reserved.  
Copyright (c) 2009-2014 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2006-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015 Research Organization for Information Science dnl and Technology (RIST). All rights reserved.  
Copyright (c) 2004-2010 The Trustees of Indiana University and Indiana University Research and Technology Corporation. All rights reserved.  
Copyright (c) 2003, The Regents of the University of California, through Lawrence Berkeley National Laboratory (subject to receipt of any required approvals from the U.S. Dept. of Energy). All rights reserved.  
Copyright (c) 2013 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2011-2012 Sandia National Laboratories. All rights reserved.  
Copyright © 2013-2015 Inria. All rights reserved.  
Copyright (c) 2009-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2005 The Regents of the University of California.  
Copyright (c) 2013-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2006-2009 University of Houston. All rights reserved.  
Copyright (c) 2009 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2015-2016 Intel, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2013 Intel, Inc. All rights reserved.  
Copyright (c) 2008 University of Houston. All rights reserved.  
Copyright (c) 2011 Mellanox Technologies. All rights reserved.  
Copyright (c) 2007-2009 Mellanox Technologies. All rights reserved.  
Copyright (c) 2011-2013 Inria. All rights reserved.  
Copyright 2001-2007 Niels Provos <provos@citi.umich.edu>  
Copyright (c) 2010 ARM ltd. All rights reserved.  
Copyright (c) 2017 Cisco Systems, Inc. All rights reserved.  
Copyright © 2009-2013 inria. All rights reserved.  
Copyright (C) 2000-2004 by Etnus, LLC  
Copyright (c) 2004-2005 High Performance Computing Center Stuttgart, Copyright (c) 2011-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2015 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2016 Broadcom Limited. All rights reserved.  
Copyright (c) 2006-2008 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2009 Mellanox Technologies. All rights reserved.  
Copyright (c) 2010-2015 Los Alamos National Security, LLC.  
Copyright (c) 2008-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2004-2007 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2006, 2008 Junio C Hamano  
Copyright (c) 2014-2015 Mellanox Technologies, Inc.  
Copyright (c) 2007 Sun Microsystems  
Copyright © 2009-2010, 2012 Université Bordeaux  
Copyright (c) 2009-2011 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2008-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2013-2016 Intel, Inc. All rights reserved  
Copyright (C) 2014 UChicgo/Argonne, LLC.  
Copyright (c) 2012 Oak Ridge National Laboratory. All rights reserved.  
Copyright (c) 2015-2016 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2011-2017 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2015-2017 Intel, Inc. All rights reserved.  
Copyright (C) 2006 Unknown (TODO: fix this)  
Copyright (c) 2010-2014 Los Alamos National Security, LLC.  
Copyright (c) 2004-2017 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (C) 2007 Oak Ridge National Laboratory  
Copyright (c) 2008-2013 Los Alamos National Security, LLC.  
Copyright (c) 2004-2006 High Performance Computing Center Stuttgart, dnl University of Stuttgart. All rights reserved.  
Copyright © 2010-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 University of Oregon. All rights reserved.  
Copyright 2002 Niels Provos <provos@citi.umich.edu>  
Copyright (c) 2017 Intel, Inc. All rights reserved.  
Copyright (c) 2013-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2009-2012 Niels Provos and Nick Mathewson  
Copyright (c) 2007 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2014-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright 2009-2012 Niels Provos and Nick Mathewson See license at end.  
Copyright (c) 2004-2010 The Trustees of Indiana University and Indiana dnl University Research and Technology dnl Corporation. All rights reserved.  
Copyright (c) 2015 NVIDIA, Inc. All rights reserved.  
Copyright 2007-2012 Niels Provos and Nick Mathewson  
Copyright 2007-2008 Sun Microsystems, Inc.  
Copyright (c) 2008-2011 Mellanox Technologies. All rights reserved.  
Copyright (c) 2013-2015 Mellanox Technologies, Inc.  
Copyright (c) 2012-2013 Los Alamos National Security, Inc. All rights reserved.  
Copyright (c) 2004-2007 The Regents of the University of California.  
Copyright (c) 2015 FUJITSU LIMITED. All rights reserved.  
Copyright (c) 2015 Intel, Inc. All rights reserved.  
Copyright (c) 2014-2017 Intel, Inc. All rights reserved.  
Copyright (c) 2008-2009 Oak Ridge National Labs. All rights reserved.  
Copyright © 2012-2013 Blue Brain Project, BBP/EPFL. All rights reserved.  
Copyright (c) 2017 Amazon.com, Inc. or its affiliates. All Rights reserved.  
Copyright (c) 2009-2013 Cisco Systems, Inc. All rights reserved.  
Copyright © 2011-2014 Inria. All rights reserved.  
Copyright (c) 2009-2014 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2006 Maxim Yegorushkin <maxim.yegorushkin@gmail.com>  
Copyright (c) 2008 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2017 Mellanox Technologies Ltd. All rights reserved.  
Copyright (c) 2016 ARM, Inc. All rights reserved.  
Copyright (c) 2013 Intel, Inc. All rights reserved.  
Copyright (c) 2004-2005 High Performance Computing Center Stuttgart, dnl University of Stuttgart. All rights reserved.  
Copyright 2015 FUJITSU LIMITED. All rights reserved.  
Copyright (c) 1996 Thinking Machines .\ $COPYRIGHT$  
Copyright (c) 2017 Mellanox Technologies, Inc.  
Copyright (c) 2004-2007 The Trustees of Indiana University.  
Copyright (c) 2013-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2010-2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2013-2015 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2011-2015 Los Alamos National Security, LLC.  
Copyright (C) 2013 University of Chicago.  
Copyright (c) 1993 The Regents of the University of California.  
Copyright (c) 2008 IBM Corporation. All rights reserved.  
Copyright (c) 2004-2014 The Trustees of the University of Tennessee.  
Copyright (c) 2009-2012 Los Alamos National Security, LLC.  
Copyright © 2004-2007 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
(c) 2012-2014 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2004-2011 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (c) 2011-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (C) 2011 Mikhail Kurnosov <mkurnosov@gmail.com>  
Copyright (c) 2013-2017 Intel, Inc. All rights reserved.  
Copyright (c) 2010 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2016 Mellanox Technologies. All rights reserved.  
Copyright © 2004-2005 The Regents of the University of California.  
Copyright (c) 2011 IBM Corporation. All rights reserved.  
Copyright (c) 2009-2012 Niels Provos, Nick Mathewson  
Copyright (c) 2015-2016 Intel, Inc. All rights reserved  
Copyright (c) 2017 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008-2017 Cisco Systems, Inc. All rights reserved $COPYRIGHT$  
Copyright (c) 2013 Oak Ridge National Laboratory. All rights reserved.  
Copyright (c) 2009-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2016 FUJITSU LIMITED. All rights reserved.  
Copyright © 2009 Université Bordeaux  
Copyright 2004, Dan Bonachea <bonachea@cs.berkeley.edu>  
Copyright (c) 2006-2017 Cisco Systems, Inc. All rights reserved  
Copyright (c) 2006-2009 Mellanox Technologies. All rights reserved.  
Copyright (c) 2008-2012 Niels Provos, Nick Mathewson  
Copyright (c) 2015 Intel, Inc. All rights reserved  
Copyright (C) 2004-2005, 2007-2009, 2011-2015 Free Software Foundation, Inc.  
Copyright (c) 2004-2005 The Trustees of the University of Tennessee.  
Copyright (c) 2007-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2007-2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright © 2010-2015 Inria. All rights reserved.  
Copyright (c) 2009-2011 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2015-2016 Los Alamos National Security, LLC. All rights reserved.  
Copyright (C) 2004-2005, 2007-2008, 2011-2015 Free Software Foundation, Inc.  
Copyright (c) 2012-2013 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2009 The University of Tennessee and The University dnl of Tennessee Research Foundation. All rights dnl reserved.  
Copyright (c) 2008 Voltaire. All rights reserved  
Copyright (c) 2010-2011 Alex Brick <bricka@ccs.neu.edu>. All rights reserved.  
Copyright (c) 2017 IBM Corporation. All rights reserved.  
Copyright (c) 2013 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2010 Sandia National Laboratories. All rights reserved.  
Copyright © 2011 Université Bordeaux  
Copyright (C) 2006-2014 Free Software Foundation, Inc.  
Copyright (c) 2011 Mellanox Technologies. All rights reserved.  
Copyright © 2006-2007 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2008, Damien Miller <djm@openbsd.org>  
Copyright (c) 2009-2012 Mellanox Technologies. All rights reserved.  
Copyright (c) 2005-2008 ZIH, TU Dresden, Federal Republic of Germany  
Copyright (C) 2001-2014 Free Software Foundation, Inc.  
Copyright (c) 2011-2017 NVIDIA Corporation. All rights reserved.  
Copyright (c) 2004-2015 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2014 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2011-2013 Université Bordeaux 1  
Copyright (c) 2006-2013 Los Alamos National Security, LLC. All rights reserved.  
Copyright (C) 2004, 2011-2015 Free Software Foundation, Inc.  
Copyright (c) 2016 Broadcom Limited. All rights reserved.  
Copyright (c) 2013-2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2013-2014 Intel, Inc. All rights reserved.  
Copyright (c) 2011 Cisco Systems, Inc. All rights reserved.  
Copyright © 2010-2014 Inria. All rights reserved.  
Copyright 2003  
Copyright (c) 2008 Cisco Systems, Inc. All rights reserved  
Copyright (c) 2015 Research Organization for Information Science .\ and Technology (RIST). All rights reserved.  
Copyright (c) 2004-2005 The Regents of the University of California.  
Copyright (c) 2011 Mellanox Technologies. All rights reserved.  
Copyright (c) 2015 Los Alamos National Security, LLC. All rights reserved.  
Copyright (c) 2008-2013 University of Houston. All rights reserved.  
Copyright (c) 2014-2016 Research Organization for Information Science and Technology (RIST). All rights reserved.  
Copyright (c) 2006-2009 Sun Microsystems, Inc. All rights reserved.  
Copyright (c) 2016 Mellanox Technologies, Inc.  
Copyright (c) 2009 Sun Microsystmes, Inc. All rights reserved.  
Copyright (c) 2015-2016 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 2012 Free Software Foundation, Inc.  
Copyright 2008 Sun Microsystems, Inc.  
Copyright (c) 2010-2012 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2010-2012 Los Alamos National Security, LLC.  
Copyright (c) 1996 Thinking Machines Corporation  
dnl Copyright (c) 2010-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 1992, 1993 The Regents of the University of California. All rights reserved.  
dnl Copyright (c) 2007-2010 Cisco Systems, Inc. All rights reserved.  
Copyright © 2004-2005 High Performance Computing Center Stuttgart, University of Stuttgart. All rights reserved.  
Copyright (C) 2004-2014 Free Software Foundation, Inc.  
Copyright (c) 2007-2010 Oracle and/or its affiliates. All rights reserved.  
Copyright © 2006-2015 Cisco Systems, Inc. All rights reserved.  
Copyright (c) 2012 Cisco Systems, Inc. All rights reserved.  
Copyright (C) 2003 University of Chicago, Ohio Supercomputer Center.  
Copyright (c) 2015 Intel, Inc. All rights reserved dnl $COPYRIGHT$  
Copyright © 2009-2010 Université Bordeaux  
Copyright (c) 2010 University of Houston. All rights reserved.  
Copyright (c) 2013 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2012 Oak Ridge National Labs. All rights reserved.  
Copyright (c) 2011-2013 Los Alamos National Security, LLC.  
Copyright (c) 2008 Chelsio, Inc. All rights reserved.  
Copyright (c) 2008 Sun Microsystems, Inc. All rights reserved.  
Copyright (C) 2004-2005, 2007, 2009, 2011-2015 Free Software Foundation, Inc.  
Copyright (c) 2010 Oracle and/or its affiliates. All rights reserved.  
Copyright (c) 2006-2015 Mellanox Technologies. All rights reserved.  
Copyright (c) 2004-2007 The University of Tennessee and The University of Tennessee Research Foundation. All rights reserved.  
Copyright (c) 2007 Mellanox Technologies. All rights reserved.  
Copyright (c) 2012 Sandia National Laboratories. All rights reserved.  
Copyright (c) 2013 Los Alamos National Security, LLC. All rights ! reserved.  
Copyright (c) 2014-2015 Los Alamos National Security, LLC. All rights reseved.

**License:** BSD and MIT and Romio

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.  
  
  
MIT License  
  
Copyright (c) <year> <copyright holders>  
  
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 (including the next paragraph) 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.