



PSS u2 P0 F/S EIP

This document is the original document.

Where unavoidable, for reasons of readability, the masculine form has been selected when formulating this document. We do assure you that all persons are regarded without discrimination and on an equal basis.

All rights to this documentation are reserved by Pilz GmbH & Co. KG. Copies may be made for the user's internal purposes. Suggestions and comments for improving this documentation will be gratefully received.

Pilz®, PIT®, PMI®, PNOZ®, Primo®, PSEN®, PSS®, PVIS®, SafetyBUS p®, SafetyEYE®, SafetyNET p®, the spirit of safety® are registered and protected trademarks of Pilz GmbH & Co. KG in some countries.



SD means Secure Digital

Licensing

This product includes Open Source software with various licenses.

lwIP 1.4.1

Copyrights

<arasmussen@consultant.datasys.swri.edu>

Copyright (c) 2001, 2002 Swedish Institute of Computer Science

Adam Dunkels <adam@sics.se>

Adam Dunkels at the Computer and Networks Architectures (CNA)

Adam Dunkels, Leon Woestenberg, Christiaan Simons

Christiaan Simons

Adam Dunkels

Copyright (c) 2001-2004 Swedish Institute of Computer Science

Simon Goldschmidt

Copyright (c) 2001-2004 Leon Woestenberg <leon.woestenberg@gmx.net>

Copyright (c) 2001-2004 Axon Digital Design B.V

Leon Woestenberg <leon.woestenberg@gmx.net>

Copyright (c) 2002-2003, Adam Dunkels

Adam Dunkels <adam@sics.se> Simon Goldschmidt

Copyright (c) 2007 Dominik Spies <kontakt@dspies.de>

Dominik Spies <kontakt@dspies.de>

Copyright (c) 2002 CITELE Technologies Ltd

Jani Monoses <jani@iv.ro> Simon Goldschmidt

Copyright (c) 2006 Axon Digital Design B.V

Christiaan Simons <christiaan.simons@axon.tv>

Jani Monoses <jani@iv.ro>

Jim Pettinato

Copyright (c) 2001, 2002 Leon Woestenberg <leon.woestenberg@axon.tv>

Copyright (c) 2001, 2002 Axon Digital Design B.V

Leon Woestenberg <leon.woestenberg@axon.tv>

Copyright (c) 2001-2003 Swedish Institute of Computer Science

Copyright (c) 2003-2004 Leon Woestenberg <leon.woestenberg@axon.tv>

Copyright (c) 2003-2004 Axon Digital Design B.V

Copyright (c) 2006 by Marc Boucher, Services Informatiques (MBSI) inc.

Copyright (c) 2002 The NetBSD Foundation, Inc.

Martin Husemann <martin@NetBSD.org>

the NetBSD Foundation, Inc. and its contributors
Copyright (c) 2001, Swedish Institute of Computer Science
Magnus Ivarsson
Copyright (c) 2003 by Marc Boucher, Services Informatiques (MBSI) inc.
Copyright (c) 1997 by Global Election Systems Inc.
Copyright (c) 1993 The Australian National University
Copyright (c) 1989 Carnegie Mellon University
the Australian National University
Carnegie Mellon University
portions Copyright (c) 1998 Global Election Systems Inc.
portions Copyright (c) 1997 by Global Election Systems Inc.
Copyright (c) 1991 Gregory M. Christy
Gregory M. Christy
Copyright (c) 1995 Eric Rosenquist, Strata Software Limited. <http://www.strataware.com>
Eric Rosenquist
Copyright (c) 1997 Global Election Systems Inc.
portions Copyright (c) 1997 Global Election Systems Inc.
Copyright (c) 1990, RSA Data Security, Inc.
Copyright (c) 1994 The Australian National University
portions Copyright (c) 2001 by Cognizant Pty Ltd
Copyright (c) 1998 by Global Election Systems Inc.
Copyright (c) 1998 Global Election Systems Inc.
Copyright (c) 1989 Regents of the University of California
the University of California, Berkeley
Paul Mackerras, paulus@cs.anu.edu.au
Guy Lancaster, glanca@gesn.com

License

lwIP is licenced under the BSD licence:
Copyright (c) 2001-2004 Swedish Institute of Computer Science.
All rights reserved.

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

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

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

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

Newlib 3.0.0

Copyrights

(c) Copyright 2001-2008 Analog Devices, Inc.

Copyright (c) 1996-2000, 2001 Free Software Foundation, Inc.

Copyright (c) 1981, 1993 The Regents of the University of California.

Thomas de Lellis <tdel@windriver.com>

Copyright (c) 2002 Red Hat, Inc

Copyright (c) 1999, 2000, 2001, 2002, 2003, 2004, 2005 Free Software Foundation, Inc.

Copyright (c) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Free Software Foundation, Inc.

(c) Copyright 2001,2006,2008 International Business Machines Corporation, Sony Computer Entertainment, Incorporated

Hans-Peter Nilsson (hp@bitrange.com)

Copyright (c) 1997, 1999 Free Software Foundation, Inc.

Copyright (c) 2001-2015 Free Software Foundation, Inc.

Copyright (c) 2000-2002 Free Software Foundation, Inc.

DJ Delorie <dj@redhat.com>

Edith Epstein <eepstein@sophia.cygnus.com>

Copyright (c) 2012, 2013 Red Hat, Inc.

John Gilmore.

Copyright 2005 Shaun Jackman

Copyright 2005, 2007, 2009 Free Software Foundation, Inc.

Copyright (c) 1993, 1995-2003, 2004 Free Software Foundation, Inc.

Copyright (c) 1996-2003 Free Software Foundation, Inc.

Copyright (c) 1997, 1999, 2000, 2001, 2004 Free Software Foundation, Inc.

Gary Funck (gary@intrepid.com)

Copyright (c) 2004, 2005 by Ralf Corsepius, Ulm/Germany.

Copyright (c) 1989, 1993, 1994 The Regents of the University of California.

Copyright 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2009, 2010 Free Software Foundation, Inc.

Copyright (c) 1991-2015 Free Software Foundation, Inc.

Copyright (c) 2008, Jeffrey Roberson <jeff@freebsd.org>

(c) Copyright 2002-2005 Analog Devices, Inc.

Copyright (c) 2014, Texas Instruments Incorporated

H.J. Lu <hjl@gnu.ai.mit.edu>

Copyright (c) 1986-1993 by Sun Microsystems, Inc.

Copyright 1998, 1999, 2000, 2002, 2003, 2010, 2013 Free Software Foundation, Inc.

Ulrich Drepper <drepper@cygnus.com> , 1995-2000. Bruno Haible
<haible@clisp.cons.org>

Copyright (c) 1999 Cygnus Solutions

(c) Copyright 2001,2006, International Business Machines Corporation, Sony Computer Entertainment, Incorporated

Copyright (c) 2002 by Red Hat, Incorporated.

Copyright (c) 2016, Synopsys, Inc.

Thomas Tanner <tanner@ffii.org>

(c) Copyright 2006-2009 Analog Devices, Inc.

Copyright (c) 1988, 1989, 1993, 1994 The Regents of the University of California.

Ted Unangst

Copyright (c) 1997, Joerg Wunsch.

Copyright (c) 2008 Analog Devices Inc.

Copyright (c) 1995 Cygnus

Copyright 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2008, 2009, 2010, 2013 Free Software Foundation, Inc.

Cygnus Support, 1994.

Copyright 2006, 2007, 2009, 2010 Free Software Foundation, Inc.

Coprocessor Active (SA)

Copyright (c) 1991, 1993 The Regents of the University of California.

Copyright (c) 1999 WIDE Project.

Copyright (c) 1995, 2001 Cygnus

Copyright 1988, 1989, 1990 AMD

Copyright (c) 2011 Edgar E. Iglesias

Copyright (c) 2005,2008 Red Hat Inc

J'orn Rennecke (joern.rennecke@superh.com)

the University of California, Berkeley.

Copyright (c) 2000-2005 Axis Communications.

COPYRIGHT (c) 1989-2010. On-Line Applications Research Corporation

Copyright (c) 1995, 1996 Cygnus

Copyright (c) 2003 Free Software Foundation, Inc.

Copyright (c) 1998, 2000 Cygnus

Copyright (c) 2012-2014 Peter Gavin <pgavin@gmail.com>

Copyright 1992, 1993, 1995, 1999, 2005, 2010 Free Software Foundation, Inc.

Copyright (c) 1996 Cygnus

Copyright (c) 2005,2011 Red Hat Incorporated.

Copyright (c) 1997,98,99,2000,2001 Free Software Foundation, Inc.

Richard Stallman

Roland Pesch

Copyright (c) 2001, 2009 Xilinx, Inc.

Copyright 2003-2013 Free Software Foundation, Inc.

Copyright (c) 1996,1997,1998,1999,2000,2002 Free Software Foundation, Inc.

Copyright 2002-2013 Free Software Foundation

Copyright (c) 2004-2009 Analog Devices Inc.

Copyright (c) 1985, 1993, 1994 The Regents of the University of California.

Copyright 1998, 1999, 2000, 2002, 2004, 2005, 2006, 2009, 2010 Free Software Foundation, Inc.

Copyright 2000, 2002, 2010 Free Software Foundation, Inc.

Alexandre Oliva <oliva@dcc.unicamp.br>

Copyright (c) 1983, 1993 The Regents of the University of California.

Copyright (c) 2001, 2004, 2005, 2007, 2009, 2010 Free Software Foundation, Inc.

Rob Savoye

Copyright (c) 1994 The Australian National University.

Copyright (c) 2001, 2002, 2007 Hans-Peter Nilsson

Copyright 2001-2013 Free Software Foundation, Inc.

Craig Howland

Copyright (c) 1991-2003 Free Software Foundation, Inc.

Mitch Lichtenberg, Chris Demetriou

Copyright (c) 2007 Axis Communications.

Copyright (c) 1991, 1992, 1996, 1997, 2000 Free Software Foundation, Inc.

Copyright 2004, 2005, 2007, 2009, 2011 Free Software Foundation, Inc.

Copyright (c) 1997, 1998, 2000 Free Software Foundation, Inc.

Copyright (c) 2002 Tim J. Robbins.

Copyright (c) 2003 Red Hat, Inc.

Copyright (c) 1997-2015 Free Software Foundation, Inc.

Martin Jackson, Graham Haley and Steve Chamberlain of Tadpole Technology

Copyright (c) 1999-2002 Free Software Foundation, Inc.

(c) 1986 SMI

Copyright (c) 1999, 2001 Free Software Foundation, Inc.

Copyright 2000, 2001, 2004, 2010 Free Software Foundation, Inc.

Jason Eckhardt <jle@cygnus.com>

Copyright (c) 1996, 1997, 1998, 1999, 2000 Free Software Foundation, Inc.

Copyright (c) 2014 ARM Ltd

Copyright (c) 1995, 2002, 2009 Xilinx, Inc.

Richard Guenther <rguenther@suse.de>

Copyright (c) 2016 Phoenix Systems

Copyright 2005, 2010, 2011 Free Software Foundation, Inc.
Philip A. Nelson.
Copyright 1992-2016 Free Software Foundation, Inc.
Copyright (c) 1999, 2000 Konstantin Chuguev.
Copyright (c) 2001, 2002, 2003, 2004 Morpho Technologies, Inc.
Andreas Krebbel <Andreas.Krebbel@de.ibm.com>
Copyright (c) 2014-2015 Free Software Foundation, Inc.
(c) Copyright 2001-2003 Analog Devices, Inc.
Copyright (c) 2013 ARM Ltd
Copyright (c) 2007-2009 Analog Devices, Inc.
Paul Vixie, 1996.
Charles-Antoine Gauthier (charles.gauthier@iit.nrc.ca).
Copyright 2008, 2009, 2010 Free Software Foundation, Inc.
Copyright (c) 1988, 1989, 1993 The Regents of the University of California.
Joel Sherrill (joel@OARcorp.com)
Copyright (c) 1996,1997,1998,1999,2002,2004 Free Software Foundation, Inc.
Copyright (c) 1990-1999, 2000, 2001 Free Software Foundation, Inc.
Copyright (c) 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003,
2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2014, 2015, 2016 Free Software
Foundation, Inc.
Copyright 1994, 1995, 1998, 1999, 2000, 2003, 2010 Free Software Foundation, Inc.
Copyright (c) 1991, 1996, 1997, 2000, 2001 Free Software Foundation, Inc.
Copyright (c) 2004, 2005, 2007, 2008 Free Software Foundation, Inc.
Copyright (c) 1998 Xavier Leroy (Xavier.Leroy@inria.fr)
Copyright (c) 2006 The NetBSD Foundation, Inc.
Copyright (c) 2010 David Xu <davidxu@freebsd.org>
Copyright (c) 1994, 2005, 2010 Free Software Foundation, Inc.
Copyright (c) 1999 by Internet Software Consortium.
Copyright (c) 1995, 1999 Cygnus
Copyright (c) 1990 Regents of the University of California.
Copyright (c) 2007 Analog Devices Inc.
Mark Slater <msalter@cygnus.com>
Copyright (c) 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001,
2002, 2003, 2004 Free Software Foundation
Copyright (c) 2004, 2005 Free Software Foundation, Inc.
Copyright 1989, 1990, 1991, 2010 Free Software Foundation, Inc.
Copyright (c) 2003, 2004, 2005 Free Software Foundation, Inc.
Copyright (c) 1995, 1996, 1997, 2001 Cygnus

Copyright 1993, 1994, 1995, 1998, 1999, 2000, 2005, 2006, 2008, 2010 Free Software Foundation, Inc.

Copyright (c) 1992-2016 Free Software Foundation, Inc.

Copyright (c) 1981-2000 The Regents of the University of California.

Copyright (c) 1991, 95, 96, 97, 98, 99, 2000 Free Software Foundation, Inc.

Copyright (c) 2001, 2003, 2010 Free Software Foundation, Inc.

Copyright (c) 2015 FTDI

Copyright (c) 2013-2015 ARM Ltd

Copyright 2001, 2002, 2010 Free Software Foundation, Inc.

Copyright (c) 2015 Free Software Foundation, Inc.

Copyright 2007 International Business Machines Corporation

Copyright (c) 2007-2008 Analog Devices Inc.

Copyright 1996, 1997, 1998, 1999, 2003, 2010 Free Software Foundation, Inc.

David Chisnall

Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005 Free Software Foundation, Inc.

Copyright (c) 2007, Toshiba Corporation

Copyright (c) 1994-2009 Red Hat, Inc.

Copyright 1993-2013 Free Software Foundation, Inc.

Copyright (c) 1996,1999 by Internet Software Consortium.

Copyright (c) 1982, 1986, 1989, 1993 The Regents of the University of California.

Copyright (c) 1992, 1993 The Regents of the University of California.

Copyright (c) 1998, 2001 Free Software Foundation, Inc.

Copyright 1988, 1993, 1995, 2001, 2009, 2010 Free Software Foundation, Inc.

Copyright (c) 2014 Google Inc.

Copyright (c) 1995 Matt Thomas (thomas@lkg.dec.com)

Copyright 2009, 2010, 2011, 2012 Free Software Foundation, Inc.

(c) UNIX System Laboratories, Inc.

Copyright (c) 1980, 1983, 1988, 1993 The Regents of the University of California.

Copyright (c) 1992 Henry Spencer.

Hans-Peter Nilsson.

Copyright (c) 1993-2005, 2007, 2017 Axis Communications.

Copyright (c) 1998-2005 Axis Communications.

Copyright (c) 1998 Brian Somers <brian@Awfulhak.org>

Copyright 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2005, 2009, 2010 Free Software Foundation, Inc.

Martin Hunt (hunt@cygnus.com)

Copyright (c) 2009, 2011 Free Software Foundation, Inc.

Copyright (c) 2009 Anthony Green
Copyright 2002, 2010 Free Software Foundation, Inc.
Copyright (c) 1984,2000 S.L. Moshier
Copyright (c) 2013 On-Line Applications Research Corporation.
Scott James Remnant
Copyright (c) 2008, 2009, 2011, 2013 Red Hat, Inc.
Copyright 2001, 2002, 2003, 2010 Free Software Foundation, Inc.
copyright'. 2004-12-17 Jeff Johnston <jjohnstn@redhat.com>
rob@cygnus.com
Copyright (c) 1989, 1991, 1993, 1994 The Regents of the University of California.
Copyright (c) 1991, 1993, 1994 The Regents of the University of California.
Fred Fish Cygnus Support.
David Mosberger-Tang <davidm@hpl.hp.com>
Copyright 2000, 2001, 2004, 2006, 2008, 2010, 2012 Free Software Foundation, Inc.
Copyright 1996-2012 Free Software Foundation, Inc.
Copyright 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2009, 2010 Free Software Founda-
tion, Inc.
S. L. Moshier.
Copyright (c) 2000-2005, 2017 Axis Communications.
Ian Lance Taylor, Google.
Copyright (c) 2001, 2002 Red Hat, Inc.
Copyright (c) 2002, 2003 Free Software Foundation, Inc.
Copyright (c) 1982, 1986, 1993, 1995 The Regents of the University of California.
Copyright (c) 1998 Free Software Foundation, Inc.
Copyright (c) 2000-2013 Free Software Foundation, Inc.
Copyright 2012-2013 Free Software Foundation, Inc.
Copyright (c) 2002 Free Software Foundation, Inc.
eichin@cygnus.com
Copyright (c) 2010-2015 Free Software Foundation, Inc.
Copyright (c) 2002-2013 Free Software Foundation, Inc.
Copyright (c) 2013 Free Software Foundation, Inc.
Copyright (c) 2008, 2009, 2014 Anthony Green
Copyright 1999, 2000, 2001, 2003, 2004, 2005, 2006, 2007, 2009, 2010 Free Software
Foundation, Inc.
Copyright (c) 1995, 2002 Red Hat Incorporated.
Copyright 1988, 1991, 2010 Free Software Foundation, Inc.
Copyright 1996, 1998, 2000, 2001, 2002, 2010 Free Software Foundation, Inc.
Copyright (c) 2000-2001 Red Hat, Inc.

J.T. Conklin, Cygnus

Jeff Johnston.

Copyright (c) 2004-2012 Free Software Foundation, Inc.

Copyright (c) 1996-2007 MIPS Technologies, Inc.

Copyright (c) 2008 ARM Ltd

Copyright (c) 2004 National Semiconductor Corporation

Copyright (c) 1998-2000 Free Software Foundation, Inc.

Portions Copyright (c) 1996-1999 by Internet Software Consortium.

Copyright (c) 2006, 2008 Free Software Foundation, Inc.

Copyright (c) 2001 Christopher G. Demetriou

Copyright (c) 1998, 1999, 2000 Red Hat, Inc.

Permaine Cheung <pcheung@cygnus.com>

Copyright (c) 2008, 2009 Xilinx, Inc.

Copyright (c) 2008, 2012 Anthony Green

Copyright (c) 2008, 2009, 2011 Red Hat Inc

Michael Meissner, Cygnus

Copyright (c) 1985, 1993 The Regents of the University of California.

Copyright 1991-2013 Free Software Foundation, Inc.

Copyright (c) 2013-2015 Red Hat, Inc.

Copyright (c) 2001, 2003, 2005 Free Software Foundation, Inc.

Copyright 2006, 2007, 2010 Free Software Foundation, Inc.

Copyright (c) 1995, 1996, 2000 Cygnus

Copyright 1997, 1998, 1999, 2000, 2001, 2003, 2010 Free Software Foundation, Inc.

Per Bothner

Copyright (c) 1997 Gregory Pietsch

(c) Copyright IBM Corp. 2006

Copyright (c) 1999,2000,2001 Jonathan Lemon <jlemon@FreeBSD.org>

Copyright (c) 2005-2013 ARM Ltd.

Copyright 2003 SuperH Ltd.

Copyright (c) 2002, 2003, 2005, 2006, 2007, 2008, 2011 Free Software Foundation, Inc.

Tont.Thompson@arm.com

Copyright (c) 2007-2009 Analog Devices Inc.

Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011 Free Software Foundation, Inc.

Copyright 2002 SuperH Ltd.

Copyright (c) 2007 Steven G. Kargl

Copyright (c) 1991,92,93,1995-1999,2000,2001 Free Software Foundation, Inc.

Copyright (c) 1987, 2000 Regents of the University of California.

Copyright (c) 1998, 2002, 2008 by Red Hat Inc.
Copyright (c) 1996, 1999, 2002 Free Software Foundation, Inc.
Michael P. Hayes (m.hayes@elec.canterbury.ac.nz)
Copyright 1999, 2000, 2001, 2002, 2003, 2004. 2005, 2006, 2007, 2009, 2010 Free Software Foundation, Inc.
(c) Copyright 2001-2009 Analog Devices, Inc.
Copyright (c) 2003-2004, Artem B. Bitvuckiy, SoftMine Corporation.
Copyright (c) 1992-1996, 1998-2012 Free Software Foundation, Inc.
Copyright (c) 1988 Regents of the University of California.
Copyright (c) 1989, 1991, 1993 The Regents of the University of California.
Copyright (c) 2002, 2003, 2004 Free Software Foundation, Inc.
Copyright (c) 2012 Analog Devices, Inc.
Copyright 1999, 2002, 2003, 2010 Free Software Foundation, Inc.
Copyright (c) 2009 Eric Blake
Copyright (c) 1991-1999, 2000 Free Software Foundation, Inc.
Kazunori Asayama <asayama@sm.sony.co.jp>
Greg McGary <greg@mcgary.org>
Copyright (c) 2012, 2013 ARM Ltd
Copyright 2011, 2012 Free Software Foundation, Inc.
Copyright (c) 1995, 2000, 2001 Cygnus
Denis Chertykov <denisc@overta.ru>
Copyright (c) 1991, 1998, 2001 The Regents of the University of California.
(c) Copyright 2006, 2007 International Business Machines Corporation, Sony Computer Entertainment, Incorporated
Copyright (c) 1984, 1988, 1993 The Regents of the University of California.
Copyright (c) 2015 by Red Hat, Incorporated.
Copyright 1991, 1992, 1993, 1994, 1995, 1997, 1998, 2000, 2001, 2002, 2003, 2006, 2007, 2008, 2010, 2011 Free Software Foundation, Inc.
Copyright (c) 1990-1992 Free Software Foundation, Inc.
Copyright (c) 1998, 1999 Cygnus
Copyright 2001, 2006, 2010 Free Software Foundation, Inc.
Copyright (c) 2002-2014 Free Software Foundation, Inc.
Copyright (c) 1986 by Sun Microsystems, Inc.
Copyright (c) 1998, 1999, 2000, 2001 Red Hat, Inc.
Copyright (c) 2003, 2004, 2005, 2006, 2011 Free Software Foundation, Inc.
Copyright (c) 1999-2014 Free Software Foundation, Inc.
Copyright (c) 1990, 1991, 1992, 1993, 1994 Free Software Foundation
Copyright (c) 1989, 1991 The Regents of the University of California.

Copyright (c) 1991,1995,1996,1997,1998,2000 Free Software Foundation, Inc.
COPYRIGHT COPYRIGHT 2005-2006 INNOVASIC SEMICONDUCTOR
(c) Copyright 2007 TOSHIBA CORPORATION
Hajimu UMEMOTO <ume@mahoroba.org>
Copyright (c) 2002 Mike Barcroft <mike@FreeBSD.org>
G. Haley
Copyright (c) 1980, 1986, 1989, 1993 The Regents of the University of California.
Copyright (c) 1987, Sun Microsystems, Inc.
Copyright (c) 1994, 2002 Red Hat Incorporated.
Copyright 1996 by Craig Metz
Corinna Vinschen <vinschen@redhat.com>
Copyright (c) 2012 by Peter Rosin.
Copyright (c) 2008, 2010 Anthony Green
Copyright (c) 2015 John Baldwin <jhb@FreeBSD.org>
Copyright (c) 2009 Analog Devices, Inc.
Copyright (c) 1996, 1997, 1998, 2000 Free Software Foundation, Inc.
Copyright (c) 1993 Intel Corporation
Copyright (c) 1989 Stephen Deering.
Copyright (c) 1995, 1996, 1997, 1998 Cygnus Solutions
(c) Copyright 2008 International Business Machines Corporation
Copyright 2002, 2003, 2010 Free Software Foundation, Inc.
Copyright (c) 1987 Regents of the University of California.
Copyright (c) 1991,95,96,98,99,2000,2001 Free Software Foundation, Inc.
Copyright (c) 1998, 1999, 2000, 2001, 2003, 2004, 2005, 2006, 2008 Free Software Found-
ation, Inc.
Copyright (c) 1995,1996,1997,1998,2000,2001 Free Software Foundation, Inc.
Copyright (c) 2013 embedded brains GmbH.
Copyright (c) 2000 Brian Somers <brian@Awfulhak.org>
Rob Savoye. (rob@cygnus.com)
Ivan Guzvinec <ivang@opencores.org>
Copyright 2010, 2011, 2012 Free Software Foundation, Inc.
Copyright (c) 2000, 2001 Alexey Zelkin <phantom@FreeBSD.org>
Copyright (c) 2009 Red Hat Incorporated.
Copyright (c) 1996-1999 by Internet Software Consortium.
Copyright (c) 1996-2010 Texas Instruments Incorporated <http://www.ti.com>
Copyright (c) 1996, 1997, 1998, 2000, 2001 Free Software Foundation, Inc.
Stephen L. Moshier <moshier@world.std.com>
Copyright (c) 1997, 1998, 1999, 2000, 2001 Free Software Foundation, Inc.

Copyright 2008, 2010 Free Software Foundation, Inc.
Copyright (c) 2001, 2002, 2003, 2005 Free Software Foundation, Inc.
Copyright (c) 2015-2016, ARM Limited
Copyright (c) 1996, 1997, 1998, 2001 Free Software Foundation, Inc.
Martin Hunt (hunt@cygnus.com), Cygnus Solutions
Mark Mitchell <mmitchell@usa.net>
Copyright (c) 1996 - 2002 FreeBSD Project
<tytso@mit.edu>
Copyright (c) 1995, 1996, 1997, 1998, 1999 Free Software Foundation, Inc.
Copyright 1998, 1999, 2000, 2001, 2002, 2003, 2008, 2009, 2010 Free Software Founda-
tion, Inc.
Copyright (c) 2001, 2003, 2005, 2008 Free Software Foundation, Inc.
Copyright (c) 2011-2012 Analog Devices, Inc.
Bob Wilson (bwilson@tensilica.com)
Copyright (c) 2007 Free Software Foundation, Inc.
Copyright (c) 1998, 1999, 2000, 2003, 2004 Free Software Foundation, Inc.
Copyright (c) 2014 Anthony Green
Copyright (c) 2002, 2003, 2010 Free Software Foundation, Inc.
Copyright 2001, 2005, 2010 Free Software Foundation, Inc.
Copyright (c) 2011, 2012 ARM Ltd
Copyright (c) 1998, 2000, 2001 Free Software Foundation, Inc.
(c) Copyright 2001-2006 Analog Devices, Inc.
(c) Copyright IBM Corp. 2007, 2008
Copyright (c) 1992, 93, 95, 96, 97, 98, 99, 00 Free Software Foundation, Inc.
Copyright (c) 2006, 2011 The NetBSD Foundation, Inc.
Copyright (c) 1986 - 1991, 1994, 1996, 1997 by Sun Microsystems, Inc.
Copyright (c) 2003, 2006, 2007, 2009 Free Software Foundation, Inc.
Copyright (c) 1992 Free Software Foundation, Inc.
Copyright (c) 1996, 1997, 2000, 2001, 2003, 2005 Free Software Foundation, Inc.
Copyright (c) 1997, 2000, 2001, 2003, 2004, 2005, 2006, 2008 Free Software Foundation,
Inc.
Portions Copyright (c) 1993 by Digital Equipment Corporation.
(c) 2014 FTDI (support@ftdichip.com)
Copyright (c) 2008-2015 ARM Ltd
Copyright (c) 1991, 92, 93, 95, 96, 97, 98, 2000 Free Software Foundation, Inc.
Copyright (c) 1996, 1998 Cygnus Support. 2012 Andes Porting.
Copyright (c) 2008 Red Hat Incorporated.
Copyright (c) 1999,2000, Konstantin Chuguev.

Copyright (c) 1996, 1997, 2001 Free Software Foundation, Inc.
Ulrich Drepper <drepper@gnu.ai.mit.edu>
Copyright 2000, 2001, 2002 Broadcom Corporation.
Copyright (c) 1990, 1991, 1992, 1993, 1994, 1995 Free Software Foundation
Copyright (c) 1997, 1998 Free Software Foundation, Inc.
Copyright (c) 2006 Free Software Foundation, Inc.
Copyright (c) 1996, 1997 Free Software Foundation, Inc.
Copyright (c) 1999, 2000, 2001, 2002 Stephane Carrez (stcarrez@nerim.fr)
Copyright (c) 1999, 2001, 2002 Free Software Foundation, Inc.
Copyright (c) 1987,88,89,90,91,92,93,94,95,96,98,99,2000,2001 Free Software Founda-
tion, Inc.
Copyright 2007, 2010 Free Software Foundation, Inc.
Copyright (c) 2002,2007 by Red Hat, Incorporated.
Tom Tromeey <tromeey@cygnus.com>
Copyright 1993, 2001, 2005, 2010 Free Software Foundation, Inc.
Copyright (c) 1983, 1992, 1993 The Regents of the University of California.
Copyright (c) 1985, 1989, 1993 The Regents of the University of California.
Copyright (c) 2006, 2008, 2009, 2011, 2012 Analog Devices, Inc.
Gibbons and Associates, Inc.
Copyright (c) 2000, 2001, 2004, 2005 Axis Communications.
Copyright (c) 1990, 1993 The Regents of the University of California.
Copyright 1998 Massachusetts Institute of Technology
Philip Blundell <pjb27@cam.ac.uk>
Copyright (c) 1995, 1996, 1997, 1998, 1999, 2000, 2002 Cygnus
copyright by the Free Software Foundation, Inc.
Michael Hayes <m.hayes@elec.canterbury.ac.nz>
Copyright (c) 1991 by AT&T.
Copyright (c) 2000, 2005, 2010 Free Software Foundation, Inc.
Copyright (c) 1985-2015 Free Software Foundation, Inc.
Ian Lance Taylor, Cygnus Support, ian@cygnus.com.
Copyright 1993, 2005, 2010 Free Software Foundation, Inc.
Copyright (c) 1999-2000 by Maksim Yevmenkin <m_evmenkin@yahoo.com>
Copyright (c) 1998,2002 by Red Hat Inc.
Copyright (c) 1991, 92, 93, 95, 96, 98 Free Software Foundation, Inc.
Copyright (c) 2001, 2008 Hans-Peter Nilsson
Coprocessor ID. Not
Copyright (c) 2008, 2009, 2011 Red Hat Incorporated.
Copyright 2010, 2011 Free Software Foundation, Inc.

Copyright (c) 2001-2013
Copyright (c) 1989, 1991 Free Software Foundation, Inc.
Portions Copyright (c) 1995 by International Business Machines, Inc.
Copyright 2002 SuperH, Inc.
Copyright 1996, 1997, 2003, 2010 Free Software Foundation, Inc.
(c) Copyright 2002-2006 Analog Devices, Inc.
Copyright (c) 2011, 2012, 2014
Copyright (c) 1996-2001, 2002 Free Software Foundation, Inc.
Copyright (c) 1992-2015 Free Software Foundation, Inc.
Copyright 2000, 2010 Free Software Foundation, Inc.
Copyright (c) 1984, 1989, 1990 Free Software Foundation, Inc.
Copyright (c) 1997, 1998, 2002 Free Software Foundation, Inc.
Copyright (c) 1987,88,89,90,91,92,93,94,96,97,98 Free Software Foundation, Inc.
Copyright (c) 2005,2008 Red Hat Incorporated.
Copyright (c) 1988 The Regents of the University of California.
Arthur David Olson.
Copyright (c) 1996, 1997, 1999 Free Software Foundation, Inc.
Copyright 2006 Innovasic Semiconductor
Copyright 1999-2013 Free Software Foundation, Inc.
Copyright 1993, 1994, 2005, 2010 Free Software Foundation, Inc.
Copyright (c) 2014 by ARM Ltd.
Copyright (c) 2001, 2002 Hans-Peter Nilsson
Steve Chamberlain and Ian Lance Taylor, Cygnus Support.
Copyright (c) 1991, 1999 Free Software Foundation, Inc.
Copyright (c) 1999 Citrus Project
Copyright (c) 1988, 1993 The Regents of the University of California.
Copyright 1999, 2000, 2002, 2003, 2010, 2012 Free Software Foundation, Inc.
Copyright 2007 Sony Corp.
Copyright (c) 2001 Alexey Zelkin <phantom@FreeBSD.org>
Copyright (c) 1996,97,98,99,2000,2002,2004 Free Software Foundation, Inc.
Copyright (c) 1992, 1991, 1990 MIPS Computer Systems, Inc. MIPS Computer Systems, Inc.
Copyright (c) 2007 Eric Blake
Copyright (c) 2005, 2006, 2009, 2010 Free Software Foundation, Inc.
Copyright (c) 1996, 1998 Cygnus
Copyright (c) 1986, 1993 The Regents of the University of California.
Zack Weinberg <zack@rabi.columbia.edu>
Copyright (c) 1995, 1997, 2000 Free Software Foundation, Inc.

Doug Lea

Copyright (c) 1999, 2000, 2001 Free Software Foundation, Inc.

Copyright (c) 2000, 2002, 2004 Free Software Foundation, Inc.

Copyright 1989, 1990, 1991, 1993, 2001, 2002, 2010 Free Software Foundation, Inc.

Copyright (c) 2012-2013 Red Hat Incorporated.

Copyright (c) 2012-2015 Free Software Foundation, Inc.

Copyright (c) 1993-2005 Axis Communications.

Copyright (c) 1998, M. Warner Losh <imp@freebsd.org>

Copyright 1989, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1999, 2001, 2003, 2004, 2006, 2010 Free Software Foundation, Inc.

Copyright (c) 1996, 1998, 2000 Free Software Foundation, Inc.

Copyright (c) 1994 X Consortium

Copyright (c) 2009-2013 Free Software Foundation, Inc.

Copyright (c) 2008, 2009 Red Hat Incorporated.

Copyright 1989, 1993, 2002, 2010 Free Software Foundation, Inc.

Copyright (c) 2013 Red Hat, Inc.

Copyright 1986, 1987, 1989, 1991, 2010 Free Software Foundation, Inc.

Copyright (c) 2009 Free Software Foundation, Inc.

Copyright (c) 1983, 1990, 1993 The Regents of the University of California.

Copyright (c) 1995, 1996, 1997, 1998 Free Software Foundation, Inc.

Copyright (c) 2000 Free Software Foundation, Inc.

Copyright (c) 2011 Analog Devices, Inc.

Copyright 2001, 2002, 2003, 2004, 2005, 2010 Free Software Foundation, Inc.

Copyright (c) 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011 Free Software Foundation

Copyright (c) 2011 Red Hat Incorporated.

Copyright (c) 1996, 1998 Cygnus Support.

Copyright (c) 2001, 2002, 2003, 2005, 2009 Free Software Foundation, Inc.

Copyright (c) 1995-1996 Jean-loup Gailly.

Jakub Jelinek <jakub@redhat.com>

Steve Chamberlain of Transmeta (sac@pobox.com).

Copyright (c) 2007 Sony Computer Entertainment Inc.

Copyright (c) 2013-2014 Andes Technology Corporation.

Copyright 1996, 1997, 1998, 1999, 2000, 2003, 2004, 2008, 2010 Free Software Foundation, Inc.

Copyright (c) 2010, 2011, 2015 Free Software Foundation, Inc.

Copyright (c) 2000-2007 Red Hat, Inc.

Copyright (c) 2001 Carnegie Mellon University.

Roy Carlson

Copyright (c) 1996 Free Software Foundation, Inc.

Copyright (c) 2003, Artem B. Bityuckiy, SoftMine Corporation.

Copyright (c) 2004, 2005, 2007, 2008, 2009 Free Software Foundation, Inc.

Copyright (c) 2008 Otto Moerbeek <otto@drijf.net>

Copyright (c) 2014

Copyright 1993, 1994, 1995 Cygnus

Copyright (c) 1998, 1999, 2000, 2001 Free Software Foundation, Inc.

Copyright (c) 2015, 2017 embedded brains GmbH.

Copyright (c) 2006-2007 Analog Devices Inc.

the Computer Systems Laboratory at the University of Utah.

Paul Vixie, Copied from Linux

Copyright (c) 1995,96,97,98,99,2000,2001 Free Software Foundation, Inc.

Copyright (c) 2012-2013, Linaro Limited

Copyright (c) 2001, MagniComp

Copyright (c) 1991, 92, 93, 94, 95, 96, 97, 2000 Free Software Foundation, Inc.

Copyright (c) 2010 CodeSourcery, Inc.

Copyright (c) 1997, 1998, 1999, 2000 Free Software Foundation, Inc.

Copyright (c) 1984, Sun Microsystems, Inc.

Copyright (c) 2008-2014 Red Hat, Inc.

Copyright 1999, 2000, 2010 Free Software Foundation, Inc.

Copyright 1999, 2000, 2001, 2002, 2010, 2012 Free Software Foundation, Inc.

Robert Quist

Copyright (c) 2009-2012 Free Software Foundation, Inc.

Copyright (c) 1996, 1997, 2002 Cygnus

Copyright (c) 1989-2015 Free Software Foundation, Inc.

Hans-Peter Nilsson <hp@bitrange.com>

Copyright (c) 2001, 2007 Hans-Peter Nilsson

Copyright (c) 2013-2015, Linaro Limited

Nigel Gray (ngray@altera.com).

Copyright (c) 1995,1996 Cygnus

Copyright (c) 1991, 2000 The Regents of the University of California.

Copyright 1998, 1999, 2000, 2001, 2005, 2009 Red Hat, Inc.

Copyright (c) 1995, 2000, 2003 Free Software Foundation, Inc.

Copyright (c) 2013 ARM Ltd.

Copyright (c) 1990 The Regents of the University of California.

Copyright 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2008, 2010, 2011 Free Software Foundation, Inc.

Copyright (c) 2008 Anthony Green
Michael Meissner, Cygnus Support, <meissner@cygnus.com>
Copyright (c) 2006 Analog Devices, Inc.
Copyright (c) 2008, 2010 Eric Blake
Copyright (c) 2009-2016 Free Software Foundation, Inc.
Copyright 2006, 2010 Free Software Foundation, Inc.
Copyright (c) 1996,1997,1998,1999,2000,2001 Free Software Foundation, Inc.
Copyright 1995, 1999, 2000, 2010 Free Software Foundation, Inc.
Copyright (c) 1987, 1993 The Regents of the University of California.
Egor Duda <deo@logos-m.ru>
Copyright (c) 1985 The Regents of the University of California.
Copyright (c) 2000 by Lucent Technologies
Copyright 1996-2013 Free Software Foundation, Inc.
Copyright (c) 2009 Edgar E. Iglesias.
Copyright (c) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004,
2005, 2006, 2007, 2008, 2009 Free Software Foundation, Inc.
Copyright (c) 2000, 2002, 2010 Free Software Foundation, Inc.
Copyright (c) 1997, 2000 Cygnus
Copyright (c) 2000, 2001, 2002, 2004, 2005, 2006, 2008, 2009, 2010 Free Software Found-
ation, Inc.
Copyright (c) 2005-2013 Free Software Foundation, Inc.
Copyright (c) 2010-2011, Linaro Limited
Copyright (c) 1994, 1995-8, 1999 Free Software Foundation, Inc.
Copyright (c) 1998, 1999, 2000 Free Software Foundation, Inc.
Cygnus Support, 1993.
Dave Gilbert <david.gilbert@linaro.org>
Copyright (c) 2008, Damien Miller <djm@openbsd.org>
Copyright (c) 1996, 1997, 2000, 2001, 2003, 2005, 2008 Free Software Foundation, Inc.
Matt Thomas <matt@3am-software.com>
Copyright 2001, 2005, 2009, 2010 Free Software Foundation, Inc.
Copyright 2001 Free Software Foundation, Inc.
Jeff Johnston <jjohnstn@redhat.com>
Copyright 1989, 1990 AMD
Copyright (c) 2002 Hans-Peter Nilsson
Copyright (c) 2007-2010 Analog Devices, Inc.
Copyright (c) 1995-2013 Xilinx, Inc.
Copyright (c) 1998, 2002 by Red Hat Inc.
Copyright (c) 1999, 2000, 2001, 2002, 2003, 2004 Free Software Foundation, Inc.

Copyright (c) 1997, 1999, 2000, 2001, 2003, 2005 Free Software Foundation, Inc.
(c) Copyright 2006,2008, International Business Machines Corporation, Sony Computer Entertainment, Incorporated
Copyright (c) 2011 Ed Schouten <ed@FreeBSD.org>
Copyright 1989, 1991, 1992, 1995, 2010 Free Software Foundation, Inc.
Copyright (c) 1992, 1993, 1994 The Regents of the University of California.
Copyright (c) 2009 Xilinx, Inc.
Copyright 1997-2013 Free Software Foundation, Inc.
Ulrich Drepper <drepper@gnu.org>
Copyright (c) 2005, 2007 Shaun Jackman
Copyright (c) 2004, 2010 Free Software Foundation, Inc.
(c) Copyright 2005-2011 Analog Devices, Inc.
Copyright (c) 2002 Tim J. Robbins
Copyright 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2010 Free Software Foundation, Inc.
Copyright (c) 1995, 1996, 1997, 2000 Free Software Foundation, Inc.
Copyright (c) 2001, 2005 Red Hat, Inc.
Copyright (c) 2000-2015 Free Software Foundation, Inc.
Doug Evans, Cygnus Support, <dje@cygnus.com>
Gary V. Vaughan
Doug Evans, (dje@cygnus.com)
Copyright 2006, 2007, 2008, 2009, 2010 Free Software Foundation, Inc.
Anthony Green (green@moxielogic.com).
copyright by Novell.
Copyright (c) 1997-2002 Free Software Foundation, Inc.
Copyright 2003 Broadcom Corporation.
Copyright 2007, 2008, 2010, 2013 Free Software Foundation, Inc.
Copyright (c) 1996, 1997, 2002 Free Software Foundation, Inc.
Copyright (c) 1999 Free Software Foundation, Inc.
Ahmed Helmy, SGI
Copyright 2007 International Business Machines Corporation, Sony Computer Entertainment, Incorporated
Copyright (c) 2004 Analog Devices Inc.
Copyright (c) 2010 The NetBSD Foundation, Inc.
Copyright (c) 2008, 2009, 2010 Free Software Foundation, Inc.
Copyright (c) 1983, 1989 The Regents of the University of California.
DJ Delorie
Copyright 2000, 2001, 2002, 2003, 2005, 2008, 2009, 2010 Free Software Foundation, Inc.
Portions Copyright (c) 2000 Akamba Corp.

Copyright (c) 1996-2010,2014 Texas Instruments Incorporated <http://www.ti.com>
Copyright (c) 2011 The FreeBSD Foundation
Copyright (c) 1999, 2000, 2001, 2003 Free Software Foundation, Inc.
Copyright (c) 2004-2008 Analog Devices Inc.
Copyright 2003, 2004, 2005, 2008, 2010 Free Software Foundation, Inc.
Copyright 2002 Niels Provos <provos@citi.umich.edu>
Copyright (c) 1992, 1993, 1994 Henry Spencer.
David Mosberger (davidm@azstarnet.com).
Copyright (c) 1996, 1997, 1998 Free Software Foundation, Inc.
Copyright (c) 1993 Martin Birgmeier
Copyright 1988 Advanced Micro Devices, Inc.
Copyright (c) 2015 ARM Ltd.
Copyright 2009 Free Software Foundation, Inc.
Copyright (c) 2014 Mentor Graphics, Inc.
dje@cygnus.com
Copyright (c) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2007 Free Software Foundation, Inc.
Gordon Matzigkeit
Copyright (c) 1980, 1993 The Regents of the University of California.
(c) Copyright 2002-2007 Analog Devices, Inc.
Copyright 1996, 1997, 2010 Free Software Foundation, Inc.
Copyright 2000, 2001, 2003, 2010 Free Software Foundation, Inc.
Steven Haworth (steve@pm.cse.rmit.edu.au)
Copyright (c) 1997 FreeBSD Inc.
Copyright (c) 1988, 1993, 2006 The Regents of the University of California.
Copyright 1995, 1996, 1998, 2000, 2001, 2002, 2003, 2005, 2007, 2008, 2009, 2010 Free Software Foundation, Inc.
Copyright (c) 2005 Red Hat Incorporated.
Copyright (c) 1991 DJ Delorie
Guido Draheim <guidod@gmx.de> , Paolo Bonzini <bonzini@gnu.org>
Copyright (c) 2015 Rolls-Royce Controls and Data Services Limited.
G. Haley Rewritten
Jeff Law, Cygnus
Copyright (c) 2001 Daniel Eischen <deischen@FreeBSD.org>
Copyright (c) 1986, Sun Microsystems, Inc.
Copyright (c) 1995, 1996, 1997 Cygnus
Copyright (c) 2017 embedded brains GmbH
Thorsten Kukuk <kukuk@suse.de>

Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2004, 2005, 2006, 2007, 2008, 2009 Free Software Foundation, Inc.

Copyright (c) 1996,1997,1999,2001-2004,2007 Free Software Foundation, Inc.

Copyright (c) 1996-2000, 2001, 2002 Free Software Foundation, Inc.

Copyright (c) 1990,1994 The University of Utah and the Computer Systems Laboratory

Copyright (c) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2009 Free Software Foundation, Inc.

Copyright (c) 1999, 2001, 2003 Red Hat Inc

Copyright (c) 1995, 1996, 1997, 1998, 1999, 2000 Cygnus
Ulrich Drepper <drepper@redhat.com>

Copyright (c) 1997, 1999, 2001 Free Software Foundation, Inc.

Copyright (c) 2005-2014 Rich Felker
Dan Kegel <dank@kegel.com>

Joel Schopp <jschopp@austin.ibm.com>

Copyright 1994, 1995, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2012 Free Software Foundation, Inc.

Noah Friedman <friedman@prep.ai.mit.edu>

Copyright 2004, 2010, 2012 Free Software Foundation, Inc.

Copyright (c) 2008, 2009 Red Hat Inc
Mark Mitchell (mark@markmitchell.com).

Copyright (c) 1995, 96, 97, 98, 99,2000,2001 Free Software Foundation, Inc.

Copyright (c) 1998 WIDE Project.

Portions Copyright (c) 1996 by Internet Software Consortium.

Copyright (c) 2004, 2005, 2012 Free Software Foundation, Inc.

Copyright (c) 1998-2002 Luigi Rizzo

Copyright (c) 2003, 2009 Free Software Foundation, Inc.

Copyright 1990 Sun Microsystems, Inc.

Copyright (c) 1982, 1985, 1986, 1988, 1993, 1994 The Regents of the University of California.

Copyright (c) 2010-2012 Free Software Foundation, Inc.

Copyright (c) 2008 Eric Blake

Copyright 1994, 1995, 1998, 1999, 2003 Free Software Foundation, Inc.
Tristan Gingold <gingold@adacore.com>

Copyright (c) 1995, 1996, 2001 Cygnus

Copyright (c) 1996 Xavier Leroy (Xavier.Leroy@inria.fr) and Pavel Krauz (krauz@fsid.cvut.cz).

Copyright (c) 1993 Daniel Boulet

Copyright (c) 2002, 2005 by Red Hat, Incorporated.

Copyright (c) 2005,2008,2009 Red Hat Incorporated.

dlindsay@cygnus.com

Stephen L. Moshier.

Copyright (c) 2011

Copyright (c) 2006, 2008, 2010 Free Software Foundation, Inc.

Copyright (c) 2009 Analog Devices Inc.

Copyright (c) 1999, 2002, 2003 Free Software Foundation, Inc.

Copyright (c) 1997, 1998, 1999, 2001 Free Software Foundation, Inc.

Copyright (c) 2007 The NetBSD Foundation, Inc.

Copyright (c) 2016 embedded brains GmbH

Copyright (c) 2012 ARM Ltd.

Copyright 1998, 1999, 2000, 2003, 2010, 2011 Free Software Foundation, Inc.

Mimi Phuong-Thao Vo

Copyright (c) 1998 Todd C. Miller <Todd.Miller@courtesan.com>

Copyright (c) 1990, 1991, 1993 The Regents of the University of California.

Copyright (c) 2002, 2010 Free Software Foundation, Inc.

Shaun Jackman <sjackman@gmail.com>

Copyright (c) 2011-2015 Free Software Foundation, Inc.

Copyright (c) 1996, 1998, 2000, 2001, 2002, 2003, 2004, 2005, 2008, 2011 Free Software Foundation, Inc.

Mitch Lichtenberg

Copyright (C.) 2004, Analog Devices Inc.

Zack Weinberg <zackw@stanford.edu>

Copyright (c) 1996, 1997, 1998, 1999 Free Software Foundation, Inc.

Copyright (c) 1995-1998, 2000, 2001 Free Software Foundation, Inc.

Copyright 2010 Free Software Foundation, Inc.

COPYRIGHT (c) 1989-2013, 2015. On-Line Applications Research Corporation

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

Copyright (c) 1982, 1986, 1988, 1993 The Regents of the University of California.

Ian Lance Taylor, Cygnus

Copyright (c) 1995-2015 Free Software Foundation, Inc.

Copyright (c) 2015, Synopsys, Inc.

Serge Vakulenko, <vak@cronyx.ru>

Copyright (c) 1996 by Andrey A. Chernov, Moscow, Russia.

Copyright 2000, 2003, 2010 Free Software Foundation, Inc.

Copyright (c) 2000, 2001, 2004, 2005, 2007 Axis Communications.

Copyright 2002, Red Hat Inc.

Copyright (c) 1995, 1996, 1998 Cygnus

Copyright 1999, 2000, 2004, 2006, 2010, 2012 Free Software Foundation, Inc.

Copyright (c) 1995, 1997, 1998, 2000 Free Software Foundation, Inc.
Pace Willisson
Copyright (c) 1997, 1998, 2001 Free Software Foundation, Inc.
Johan Rydberg, <johan.rydberg@netinsight.se>
Copyright 2001, 2002, 2003, 2004 Morpho Technologies
Copyright (c) 1993-2012 Free Software Foundation, Inc.
Copyright 1988, Advanced Micro Devices
Copyright (c) 2001 Red Hat, Inc.
Wolfram Gloger <wmglo@dent.med.uni-muenchen.de>
Copyright (c) 2012-2015 Red Hat, Inc.
Toshiyasu Morita (tm@netcom.com)
Copyright (c) 1982, 1986, 1991, 1993, 1994 The Regents of the University of California.
(c) Copyright IBM Corp. 2009
Ulrich Drepper, <drepper@gnu.org>
Copyright (c) 1998 by Lucent Technologies
Copyright (c) 1995, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007,
2008, 2010, 2011, 2014 Free Software Foundation, Inc.
Copyright (c) 2010-2011,2013 Linaro Limited
Copyright (c) 1995, 1996, 2000 Free Software Foundation, Inc.
Copyright (c) 2005-2009 Analog Devices Inc.
Copyright 2005-2013 Free Software Foundation, Inc.
Steve Chamberlain <sac@cygnus.com>
Copyright (c) 2013 MIPS Technologies, Inc.
Copyright (c) 2004 CodeSourcery, LLC
Coprocessor Configuration Register
David Waitzman, BBN Labs
Ian Lance Taylor, Cygnus Support, <ian@cygnus.com>
Copyright (c) 2010 Analog Devices, Inc.
Jiro Takabatake <jiro@din.or.jp>
Copyright (c) 1999-2005 Axis Communications.
Copyright (c) 1987, 1991 Regents of the University of California.
(c) Copyright 2001,2008, International Business Machines Corporation, Sony Computer Entertainment, Incorporated
Copyright (c) 1998-2002 Luigi Rizzo, Universita di Pisa
Copyright (c) 1996, 1997, 2004 Free Software Foundation, Inc.
Copyright 1996 Massachusetts Institute of Technology
COPYRIGHT (c) 1989-2014.
Copyright (c) 2017 ARM Ltd.

Copyright (c) 1996 Xavier Leroy (Xavier.Leroy@inria.fr)
phil@wwu.edu
Matthias Drochner <drochner@NetBSD.org>
(c) Copyright 2006,2008, International Business Machines Corporation
Copyright (c) 1996, 1997, 2000, 2002 Free Software Foundation, Inc.
Copyright (c) 1996 Cygnus Support.
Copyright (c) 1991 DJ Delorie.
Copyright 1993, 1994, 2003, 2005, 2010 Free Software Foundation, Inc.
Copyright 1998, 2000, 2010 Free Software Foundation, Inc.
Copyright (c) 1991, 1995, 1996, 1997, 1998 Free Software Foundation, Inc.
Copyright (c) 2002, 2003, 2010 Free Software Foundation.
Copyright (c) 2015 embedded brains GmbH.
Steve Deering, Stanford
Copyright (c) 1995,96,97,98,2000,2001 Free Software Foundation, Inc.
Copyright (c) 1982, 1986, 1993 The Regents of the University of California.
Copyright (c) 1996-2014 Free Software Foundation, Inc.
Copyright (c) 1988 by Sun Microsystems, Inc.
(c) 2015 FTDI (support@ftdichip.com)
Copyright (c) 2001, 2002, 2003, 2005, 2008, 2010 Free Software Foundation, Inc.
Copyright (c) 1995-2003 Free Software Foundation, Inc.
Copyright (c) 2010 Damien Miller.
Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004 Free Software Found-
ation, Inc.
Copyright (c) 1996,97,2002 Free Software Foundation, Inc.
Copyright (c) 1985, 1986, 1993 The Regents of the University of California.
Copyright (c) 1999-2015 Free Software Foundation, Inc.
Copyright (c) 1996, David Mazieres <dm@uun.org>
Copyright (c) 1988-2015 Free Software Foundation, Inc.
Copyright 1994, 2010 Free Software Foundation, Inc.
Copyright 2001, 2003, 2010, 2011 Free Software Foundation, Inc.
Miles Bader <miles@gnu.ai.mit.edu>
Copyright (c) 2012 National Semiconductor Corporation
Copyright (c) 1993-2000, 2002, 2010 Free Software Foundation, Inc.
Copyright (c) 1990, 1991, 2001, 2010 Free Software Foundation, Inc.
Copyright (c) 1992, 1993, 1995, 1996-2014 Red Hat, Inc.
Copyright (c) 2009, Sun Microsystems, Inc.
Copyright (c) 2007 mocom software GmbH & Co
Copyright 2005, 2010 Free Software Foundation, Inc.

Copyright 1998, 1999, 2000, 2002, 2005, 2006, 2007, 2009, 2010 Free Software Foundation, Inc.

the University of California, Berkeley and its contributors.

Copyright (c) 1993, 94, 95, 96, 97, 98, 2000 Free Software Foundation, Inc.

Copyright (c) 2001 Christopher G. Demetriou.

Ian Lance Taylor <ian@cygnus.com> , Cygnus Support.

Copyright (c) 1997, 2000, 2001, 2003, 2004, 2005 Free Software Foundation, Inc.

Vladimir Makarov (vmakarov@cygnus.com).

Copyright (c) 1996, 1997, 2000 Free Software Foundation, Inc.

Copyright (c) 2013, Markus Friedl <markus@openbsd.org>

Copyright (c) 1982, 1986, 1993, 1994 The Regents of the University of California.

(c) copyright 1988,1992,1993 Intel Corp.

Copyright (c) 1982, 1986, 1990, 1993, 1994 The Regents of the University of California.

Ulrich Drepper <drepper@cygnus.com>

Copyright (c) 2002 Red Hat, Inc.

Copyright (c) 1994-2005 Axis Communications.

Copyright (c) 1989 The Regents of the University of California.

Copyright (c) 1993 The Regents of the University of California.

Copyright 1989, 1991, 2000, 2002, 2003, 2010 Free Software Foundation, Inc.

Ken Werner <ken.werner@de.ibm.com>

Copyright (c) 2000, 2004 Free Software Foundation, Inc.

Copyright (c) 2002, 2007 by Red Hat, Incorporated.

Copyright (c) 1999, 2000, 2001, 2002 Stephane Carrez

Copyright (c) 2014 Imagination Technologies Limited.

Copyright (c) 2002, 2010 by Red Hat, Incorporated.

Copyright (c) 2011-2012 Free Software Foundation, Inc.

Copyright 1992, 1993, 1994-2004 Red Hat Inc.

Copyright 2004, 2010, 2011 Free Software Foundation, Inc.

Sean Keys (skeys@ipdatasys.com)

Copyright (c) 1997, 1999, 2000, 2001, 2003, 2004, 2005, 2008 Free Software Foundation, Inc.

Copyright (c) 1995-2000, 2001 Free Software Foundation, Inc.

Stephane Carrez (stcarrez@nerim.fr)

Copyright (c) 1992, 1993, 1994-2014 Red Hat, Inc.

Copyright (c) 2011, 2012 Adapteva, Inc.

Copyright (c) 2006-2008 Analog Devices Inc.

Copyright (c) 2009 Charles S. Wilson

Copyright 1990, 1991, 2010 Free Software Foundation, Inc.

Copyright (c) 2011 Free Software Foundation, Inc.
Copyright (c) 2011, 2012 ARM Ltd.
Copyright (c) 1997 Todd C. Miller <Todd.Miller@courtesan.com>
Copyright (c) 1995, 1997, 2000, 2001 Free Software Foundation, Inc.
Copyright 1999, 2000, 2001, 2003, 2009, 2010 Free Software Foundation, Inc.
Copyright (c) 1996, 1997, 1999, 2000, 2002 Free Software Foundation, Inc.
Copyright (c) 1983, 1989, 1993 The Regents of the University of California.
Copyright (c) 2001, 2003, 2005, 2011 Free Software Foundation, Inc.
Copyright (c) 2008 by CodeSourcery, Inc.
Copyright 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2009, 2010, 2011, 2012 Free Software Foundation, Inc.
Copyright (c) 2014 Free Software Foundation, Inc.
Copyright (c) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 Free Software Foundation, Inc.
David Vinayak Henkel-Wallace
Copyright (c) 1999 Kungliga Tekniska Hogskolan (Royal Institute of Technology, Stockholm, Sweden).
Copyright (c) 2004, 2005, 2007, 2009 Free Software Foundation, Inc.
Copyright 1987, 1991, 1994, 2002, 2010 Free Software Foundation, Inc.
Copyright (c) 2003-2004, Artem B. Bitvuckiy
Copyright (c) 1995-1996 Jean-loup Gailly and Mark Adler
Copyright 1996, 1997, 1998, 1999, 2000, 2001, 2003, 2010 Free Software Foundation, Inc.
Copyright (c) 2006-2009 Analog Devices Inc.
Copyright 2007, 2009 Xilinx, Inc.
Copyright (c) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2009, 2010, 2011 Free Software Foundation, Inc.
Copyright (c) 1998, 1999, 2000 and 2001 WIDE Project.
Phil Cockcroft
Copyright (c) 1995, 96, 97, 98, 99, 2000 Free Software Foundation, Inc.
Copyright (c) 2013 The NetBSD Foundation, Inc.
Copyright (c) 1980, 1986, 1993 The Regents of the University of California.
Copyright (c) 1995,96,97,98,99,2000 Free Software Foundation, Inc.
Copyright (c) 1983, 1993, 1994 The Regents of the University of California.
Jan Hubicka <jh@suse.cz>
Copyright (c) 1986 - 1991 by Sun Microsystems, Inc.
Copyright (c) 1995-1999 by Internet Software Consortium.
Copyright (c) 2009-2015 Free Software Foundation, Inc.
Copyright (c) 1997-2003 Free Software Foundation, Inc.

Copyright (c) 2005, 2009 Red Hat Incorporated.
Copyright (c) 2006 CodeSourcery Inc
Copyright (c) 2014, Theo de Raadt <deraadt@openbsd.org>
Copyright (c) 1992, 1993, 1994, 1995, 1996, 1997 Free Software Foundation, Inc.
Copyright (c) 2014 Red Hat, Inc.
Dmitry Diky <diwil@mail.ru>
Copyright (c) 1996, 1997, 1998, 1999, 2001, 2002, 2003, 2004 Free Software Foundation, Inc.
Copyright (c) 1985, 1986, 1988, 1993, 1994 Free Software Foundation, Inc.
Copyright 2001, 2009, 2010 Free Software Foundation, Inc.
(c) Copyright 2007-2009 Analog Devices, Inc.
Copyright (c) 1995, 1996, 1997, 2000 Red Hat, Inc.
Copyright (c) 1999 Cygnus
Martin Schwidefsky (schwidefsky@de.ibm.com).
Geoffrey Noer <noer@cygnus.com>
Copyright (c) 1999, 2000, 2003, 2004, 2005 Axis Communications.
Damjan Lampret (lampret@opencores.org).
Copyright (c) 2001 WIDE Project.
Copyright (c) 1993, 1994, 1995 Cygnus
Copyright (c) 1998, 1999, 2000, 2002, 2004 Free Software Foundation, Inc.
Copyright (c) 2002-2004 Tim J. Robbins.
Copyright (c) 2009-2010 Analog Devices Inc.
Copyright 2009, 2010, 2011, 2012, 2013 Free Software Foundation, Inc.
(c) Copyright IBM Corp. 2005, 2006, 2007
(c) Copyright 2017 Michael R. Neilly
Copyright (c) 2002, 2003, 2004, 2005, 2010 Free Software Foundation, Inc.
J.T. Conklin <jtc@netbsd.org>
Copyright 2005, 2007 Shaun Jackman
Doug Evans (dje@cygnus.com).
Copyright 2003, 2004, 2005, 2006, 2008, 2010 Free Software Foundation, Inc.
Joel Sherrill <joel.sherrill@OARcorp.com>
Copyright (c) 1994 Cronyx Ltd.
Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003 Free Software Foundation, Inc.
Copyright (c) 1995, 1999 by Internet Software Consortium.
Copyright (c) 2009 Conny Marco Menebrocker
(c) Copyright 1984 by Third Eye Software, Inc.
Copyright (c) 1984, 1985, 1986, 1987, 1993 The Regents of the University of California.
G. Haley Additions

(c) Copyright 2002-2003 Analog Devices, Inc.
Copyright 2012 Free Software Foundation, Inc.
Copyright (c) 2008 Free Software Foundation, Inc.
Copyright (c) 2006 KPIT Cummins
Copyright 1995, 1997, 1998, 2000, 2001, 2010 Free Software Foundation, Inc.
Copyright (c) 1996-2001,2003, 2004 Free Software Foundation, Inc.
Copyright 2002, 2005, 2009 Free Software Foundation, Inc.
(c) Copyright 2003-2004 Analog Devices, Inc.
Copyright (c) 2006 CodeSourcery, Inc.
Aldy Hernandez.
Copyright (c) 2015 embedded brains GmbH
Copyright (c) 1996-2002, 2003, 2004 Free Software Foundation, Inc.
Copyright (c) 2005, 2007 Axis Communications.
Copyright 1992, 1993, 1994-2004 Red Hat, Inc.
Copyright (c) 2011 by ARM Ltd.
Copyright 2002, 2011 Red Hat Inc.
Copyright (c) 2001 Cygnus
Copyright 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
2006, 2007, 2008, 2009, 2010, 2011 Free Software Foundation, Inc.
Richard Henderson (rth@tamu.edu)
Copyright (c) 1998-2015 Free Software Foundation, Inc.
Copyright (c) 1998, Larry Lile
Jeff Johnston
Copyright (c) 2013 Andes Technology Corporation.
Copyright (c) 1997 Cygnus
Copyright (c) 1997, 1998, 2000, 2001 Free Software Foundation, Inc.
Copyright (c) 1992, 1995, 1996, 1997, 1999, 2000 Free Software Foundation, Inc.
Copyright (c) 2007 by Ellips BV.
Copyright (c) 1995 Alex Tatmanjants <alex@elvisti.kiev.ua> at Electronni Visti IA, Kiev,
Ukraine.
Copyright 2006, 2009, 2010 Free Software Foundation, Inc.
wilson@cygnus.com
Copyright (c) 1994 Ugen
Copyright (c) 2001, 2012 Hans-Peter Nilsson
Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007,
2008, 2009 Free Software Foundation, Inc.
Copyright (c) 1995,96,98,99,2000,2001 Free Software Foundation, Inc.
Copyright (c) 2017 SiFive Inc.

Copyright (c) 2015 ARM Ltd
Copyright (c) 1995-1999, 2000, 2001 Free Software Foundation, Inc.
Copyright (c) 2000 WIDE Project.
Copyright (c) 2005,2008,2009,2011 Red Hat Incorporated.
Copyright (c) 2014, ARM Limited
Copyright (c) 1996, 97, 98, 99, 2000, 2001 Free Software Foundation, Inc.
Copyright (c) 1995, 1996, 1997, 1998 and 1999 WIDE Project.
Rafael Espindola <espindola@google.com>
Ian Lance Taylor <ian@cygnus.com>
the Computer Systems Engineering group at Lawrence Berkeley Laboratory
Copyright (c) 2008 Analog Devices, Inc.
Copyright (c) 1983 Regents of the University of California.
Andreas Simbuerger <simbuerger@fim.uni-passau.de>
J'orn Rernnecke (joern.rennecke@superh.com)
Copyright (c) 1995, 1996, 1997, and 1998 WIDE Project.
Copyright (c) 2016 Joel Sherrill <joel@rtems.org>
Copyright (c) 2012-2015 MIPS Technologies, Inc.
Copyright 1989, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 2000, 2002, 2003, 2005, 2010,
2011 Free Software Foundation, Inc.
Copyright (c) 2001, 2002, 2003 Free Software Foundation, Inc.
Copyright (c) 2008 Nokia Corporation
Copyright (c) 1995, 1996, 1998, 2001 Cygnus
Copyright (c) 2004, 2009 Xilinx, Inc.
Copyright (c) 2002, 2003, 2005 Free Software Foundation, Inc.
Copyright (c) 1990, 1993, 1994 The Regents of the University of California.
Copyright (c) 1998 Cygnus
Copyright (c) 2012, 2013 Free Software Foundation, Inc.
Copyright (c) 1992-2001, 2002, 2004, 2005, 2006, 2007 Free Software Foundation, Inc.
Copyright (c) 1997 by Andrey A. Chernov, Moscow, Russia.
Copyright (c) 1994 The Regents of the University of California.
Copyright (c) 1999, 2001, 2003, 2004 Stephane Carrez (stcarrez@nerim.fr)
Copyright (c) 2000 Red Hat, Inc.
Copyright (c) 2004-2005 Tim J. Robbins.
Copyright (c) 2004 Christian Groessler <chris@groessler.org>
Copyright 2004-2013 Free Software Foundation, Inc.
Copyright 2004, 2010 Free Software Foundation, Inc.
Copyright (c) 2013, Linaro Limited
Copyright (c) 2011 Aeroflex Gaisler

Copyright (c) 2000, 2001 Free Software Foundation, Inc.
Copyright (c) 1992, 1996, 1997 Free Software Foundation, Inc.
Mark Mitchell <mark@codesourcery.com>
Copyright (c) 2005 Axis Communications.
Paul Vixie
Jean-Francois Bignolles <bignolle@ecoledoc.ibp.fr>
Copyright 2001, 2008, 2010 Free Software Foundation, Inc.
Per Bothner.
Cary Coutant <ccoutant@google.com>
Copyright (c) 2011, 2014
Copyright 1988, 1991, 1992, 1993, 1994, 1996, 1998, 2004, 2010 Free Software Founda-
tion, Inc.
Copyright 1999, 2000, 2001, 2005, 2009, 2010 Free Software Foundation, Inc.
Copyright 2003, 2005, 2009, 2010, 2011 Free Software Foundation, Inc.
Copyright 2003, 2004, 2007, 2008, 2010 Free Software Foundation, Inc.
Copyright (c) 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2008,
2009 Free Software Foundation, Inc.
Copyright (c) 1998, 1999 Free Software Foundation, Inc.
(c) Copyright 1986 HEWLETT-PACKARD COMPANY
Copyright (c) 1989, 1993 The Regents of the University of California.
Mark Kettenis <kettenis@phys.uva.nl>
Copyright 2006, 2007, 2008, 2009 Free Software Foundation, Inc.
Copyright (c) 1998, 1999, 2001 Free Software Foundation, Inc.
Copyright (c) 1995, 1996, 1997, 1998, 2000 Free Software Foundation, Inc.
Bob Wilson (bob.wilson@acm.org)
Copyright 2011-2013 Free Software Foundation, Inc.
Copyright (c) 1996, 2002 Free Software Foundation, Inc.
(c) copyright 1988,1993 Intel Corp.
Copyright (c) 2011, Adapteva, Inc.
Nathan Sidwell <nathan@codesourcery.com>
the University of California, Berkeley and its contributors
Copyright (c) 2015-2016, Synopsys, Inc.
Carl Greco, <cgreco@Creighton.Edu>
Copyright (c) 2008-2013 Free Software Foundation, Inc.
Copyright (c) 2010 Free Software Foundation, Inc.
Copyright (c) 1996, 2001, 2002 Cygnus
Copyright (c) 2007 Free Software Foundation, Inc. <<http://fsf.org/>>
Copyright (c) 2007-2008 David Schultz <das@FreeBSD.ORG>

Copyright 1988, 1989, 1990 Advanced Micro Devices, Inc.
Copyright 1986-2013 Free Software Foundation, Inc.
Jim Pick <jim@jimpick.com>
Copyright (c) 2003-2004, Artem B. Bityuckiy.
Copyright (c) 2012
Copyright (c) 2015, ARM Limited
Copyright (c) 2011 ARM Ltd
Copyright (c) 1996, 1998, 2000, 2001, 2002, 2003, 2004, 2005 Free Software Foundation, Inc.
Copyright (c) 2000, 2001, 2004, 2010 Free Software Foundation, Inc.
Copyright (c) 1982, 1986, 1990, 1993 The Regents of the University of California.
Arnold Metselaar <arnold_m@operamail.com>
Copyright (c) 2000, 2001, 2002 Free Software Foundation, Inc.
Copyright (c) 1997, 2000, 2001 Free Software Foundation, Inc.
Fred Fish Cygnus
HJ Lu
Copyright (c) 1998-2001 by Lucent Technologies
Eric Youngdale, <eric@aib.com>
Fred Fish (fnf@cygnus.com)
Copyright 1999, 2004, 2010 Free Software Foundation, Inc.
Doug Lea <dl@cs.oswego.edu>
Copyright 1998, 1999, 2000, 2010 Free Software Foundation, Inc.
Gordon Matzigkeit <gord@gnu.ai.mit.edu>
Copyright 2001, 2002, 2003, 2004 Free Software Foundation, Inc.
Copyright 2002-2013 Free Software Foundation, Inc.
Timothy Wall (twall@cygnus.com)
Copyright (c) 1989 Carnegie Mellon University.
Richard Henderson <rth@tamu.edu>
Copyright (c) 1996 Matthew R. Green
Copyright (c) 1995, 1999 Berkeley Software Design, Inc.
Copyright 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2005, 2009, 2010 Free Software Foundation, Inc.
Copyright (c) 2005 Analog Devices Inc.
Copyright (c) 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2008 Free Software Foundation, Inc.
Kai Tietz, OneVision Software
Copyright 2001, 2002, 2003 Broadcom Corporation.
Ian Lance Taylor, Cygnus Solutions.

Copyright (c) 2008-2009 Analog Devices Inc.
Copyright (c) 1995-2002 Free Software Foundation, Inc.
Copyright (c) 2012 Free Software Foundation, Inc.
Copyright (c) 1997, 2001, 2002 Red Hat, Inc.
Kuang Hwa Lin, 2002.
Copyright 1989, 1991 Free Software Foundation, Inc.
copyrighted by the Free Software Foundation
Copyright (c) 1983, 1987, 1989, 1993 The Regents of the University of California.
Copyright (c) 2003, 2005 Free Software Foundation, Inc.
Copyright 1989, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002,
2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010 Free Software Foundation, Inc.
Copyright (c) 2007, 2008 Eric Blake
Copyright 1989, 1990 Advanced Micro Devices, Inc.
Copyright 1998, 1999, 2000, 2003, 2007 Free Software Foundation, Inc.
Copyright (c) 1998, 2010 Free Software Foundation, Inc.
Copyright 2009, 2010 Free Software Foundation, Inc.
Steve Chamberlain
Copyright (c) 2012 Adapteva, Inc.
Copyright (c) 1997-2002 FreeBSD Project.
Copyright 1991, 1992, 1993, 1995, 1997, 1998, 1999, 2001, 2003, 2005, 2008, 2010 Free
Software Foundation, Inc.
Copyright (c) 1995,1996,1998,1999,2000,2001 Free Software Foundation, Inc.
Copyright 2001, 2002, 2003, 2004 Morpho Technologies, Inc.
Copyright 1988, 1989, 1991, 2010 Free Software Foundation, Inc.
Copyright 1994, 1995, 1997, 2001, 2002, 2003, 2010 Free Software Foundation, Inc.
Copyright (c) 1988, Julian Onions <jpo@cs.nott.ac.uk> Nottingham University 1987.
Copyright (c) 2009-2015 ARM Ltd
(c) Copyright IBM Corp. 2005, 2006
Copyright 2015 Red Hat, Inc.
Copyright (c) 2009 ARM Ltd
Copyright 2001, 2010 Free Software Foundation, Inc.
(c) Copyright IBM Corp. 2008
Copyright (c) 2003 Altera Corporation
Copyright (c) 2001 Hans-Peter Nilsson
Copyright (c) 1995, 1996, 1997, 1998 Cygnus
Copyright 1996, 1999, 2001, 2003, 2010 Free Software Foundation, Inc.
Copyright (c) 1988 Stephen Deering.
Copyright (c) 1991, 92, 96, 97, 98, 99, 2000 Free Software Foundation, Inc.

Copyright 1992, 1993, 1994 Henry Spencer.
COPYRIGHT (c) 2010, 2017. On-Line Applications Research Corporation
Copyright (c) 1991-2012 Free Software Foundation, Inc.
Klaus K'ampf (kkaempf@rmi.de)
(c) Copyright 2007 International Business Machines Corporation, Sony Computer Entertainment, Incorporated
Copyright 2008-2013 Free Software Foundation, Inc.
Copyright (c) 1982, 1986, 1993, 1994, 1995 The Regents of the University of California.
Copyright (c) 2009, 2010, 2011, 2012 ARM Ltd.
Copyright (c) 2000, 2001, 2002, 2010 Free Software Foundation, Inc.
Nathanael Nerode.
Joel Sherrill <joel@OARcorp.com>
(c) Copyright 2007,2008, International Business Machines Corporation
Copyright (c) 2001-2003 Free Software Foundation, Inc.
Copyright (c) 2012 ARM Ltd
Scott James Remnant, 2004.
(c) Copyright IBM Corp. 2007
Copyright (c) 2001, 2002, 2003, 2004 Morpho Technologies
Red Hat
Copyright (c) 1995, 1996, 1997, 1998, and 1999 WIDE Project.
Ian Lance Taylor.
Copyright (c) 2010 Red Hat Incorporated.
Copyright (c) 2001, 2003, 2005, 2008, 2011 Free Software Foundation, Inc.
Copyright (c) 1991 Free Software Foundation, Inc.
Copyright (c) 2012-2014 ARM Ltd
Copyright (c) 1995, 1996, 2002 Red Hat Incorporated.
Copyright (c) 2001 by Red Hat, Incorporated.
Copyright (c) 1990, 2007 The Regents of the University of California.
Copyright (c) 1992, 1993, 1994, 1995, 1996, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006 Free Software Foundation, Inc.
George Edmond Eddy
Copyright (c) 1998, 2000 by Lucent Technologies
Copyright (c) 2009 CodeSourcery, LLC.
Eric Anderson, 3jean@maas-neotek.arc.nasa.gov.
Copyright (c) 2001, 2002, 2010 Free Software Foundation, Inc.
Copyright (c) 2014 OpenRISC Project
Copyright (c) 1994-2012 Free Software Foundation, Inc.

Copyright 1985, 1986, 1988, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009 Free Software Foundation, Inc.

Copyright 2000, 2001, 2010 Free Software Foundation, Inc.

Copyright 2010-2013 Free Software Foundation, Inc.

Copyright (c) 1996, 1997, 1999, 2000 Free Software Foundation, Inc.

Copyright (c) 2000, Cygnus Solutions, A Red Hat Company

Copyright 1996-2003 Free Software Foundation, Inc.

Copyright (c) 2008 Ed Schouten <ed@FreeBSD.org>

Copyright 2004, 2008, 2010 Free Software Foundation, Inc.

Copyright (c) 1996,97,98,99,2002 Free Software Foundation, Inc.

Copyright 2001, 2003, 2010 Free Software Foundation, Inc.

Ken Arnold and published in UNIX Review, Vol.

Ulrich Drepper, <drepper@gnu.ai.mit.edu>

Ron Guilmette (rfg@netcom.com)

Copyright (c) 2013-2015 Free Software Foundation, Inc.

Copyright (c) 2014, Hesham ALMatary

Copyright (c) 1999, 2000 Free Software Foundation, Inc.

Copyright (c) 2002, 2003 Red Hat, Inc

Andreas Jaeger <aj@suse.de>

Copyright 1998, 2005, 2009, 2010 Free Software Foundation, Inc.

Copyright 2006 Pathway Connectivity

Copyright (c) 1995,1996,1999 Cygnus

Copyright (c) 1996-1999,2001,2002,2003,2004 Free Software Foundation, Inc.

Copyright (c) 1993 by Sun Microsystems, Inc.

Copyright (c) 1988-2006, Leif Ekblad

Copyright (c) 1998, 1999, 2000, 2002, 2005, 2006, 2010 Free Software Foundation, Inc.

Copyright (c) 1997, 2000, 2001, 2003, 2004 Free Software Foundation, Inc.

Copyright (c) 2004 Free Software Foundation, Inc.

Copyright (c) 2011 David Chisnall

Copyright (c) 1999, 2002, 2003, 2004 Free Software Foundation, Inc.

Copyright (c) 1993 DJ Delorie

Copyright (c) 2001, 2004, 2005 Axis Communications AB.

Copyright (c) 1995-1997, 2000, 2001 Free Software Foundation, Inc.

Copyright (c) 2013, 2014, 2015 ARM Ltd.

Daniel Berlin (dan@cgsoftware.com).

Copyright (c) 1991, 92, 93, 96, 98 Free Software Foundation, Inc.

Copyright (c) 1990-1997, 1999, 2000, 2001 Free Software Foundation, Inc.

Copyright (c) 1984 - 1991 by Sun Microsystems, Inc.
Copyright (c) 1993, 1995, 1996, 1997, 1998 Free Software Foundation, Inc.
(c) copyright 1989,1993 Intel Corp.
Copyright (c) 1997 Free Software Foundation, Inc.
Andreas Neukoetter (ti95neuk@de.ibm.com)
Copyright (c) 2002 Red Hat Incorporated.
Copyright (c) 2003, Artem B. Bityuckiy (dedekind@mail.ru).
Copyright (c) 1998, Cygnus Solutions.
Copyright (c) 1998, 2000 Free Software Foundation, Inc.
Copyright (c) 2001 Free Software Foundation, Inc.
Copyright (c) 2011 Ed Schouten <ed@FreeBSD.org> David Chisnall
<theraven@FreeBSD.org>
Copyright (c) 1982, 1986, 1989, 1991, 1993 The Regents of the University of California.
Copyright (c) 2004 Red Hat, Inc.
<Duncan_Stodart@insession.com>
Copyright (c) 2017 ARM Ltd
Copyright 2011 Free Software Foundation, Inc.
Jon Beniston <jon@beniston.com>
Matthias Drochner. Public
Copyright 1990 Advanced Micro Devices, Inc.
J.T. Conklin, <jtc@wimsey.com>
Copyright (c) 1996 by Internet Software Consortium.
copyright holders and contributors AS
Fred Fish Cygnus Support
Copyright (c) 2002, 2011 by Red Hat, Incorporated.
Copyright (c) 2004 Stefan Farfeleder.
Kaz Kylheku <kaz@ashi.footprints.net>
Copyright 2000 Free Software Foundation, Inc.
Copyright (c) 1996, 1997, 1999, 2001, 2002 Free Software Foundation, Inc.
Copyright (c) 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005,
2006, 2007, 2008, 2009, 2010, 2011 Free Software Foundation, Inc.
Copyright (c) 1997, 1998, 1999 Free Software Foundation, Inc.
registry@sco.com.
Copyright (c) 1996, 1997, 1998, 2002 Free Software Foundation, Inc.

License

libm, libc, libnosys used (BSD-2-Clause, BSD-3-Clause)

The newlib subdirectory is a collection of software from several sources.

Each file may have its own copyright/license that is embedded in the source file. Unless otherwise noted in the body of the source file(s), the following copyright notices will apply to the contents of the newlib subdirectory:

(1) Red Hat Incorporated

Copyright (c) 1994-2009 Red Hat, Inc. All rights reserved.

This copyrighted material is made available to anyone wishing to use, modify, copy, or redistribute it subject to the terms and conditions of the BSD License. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY expressed or implied, including the implied warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. A copy of this license is available at <http://www.opensource.org/licenses>. Any Red Hat trademarks that are incorporated in the source code or documentation are not subject to the BSD License and may only be used or replicated with the express permission of Red Hat, Inc.

(2) University of California, Berkeley

Copyright (c) 1981-2000 The Regents of the University of California.
All rights reserved.

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

- * 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 University nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE 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.

(3) David M. Gay (AT&T 1991, Lucent 1998)

The author of this software is David M. Gay.

Copyright (c) 1991 by AT&T.

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTY. IN PARTICULAR, NEITHER THE AUTHOR NOR AT&T MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

The author of this software is David M. Gay.

Copyright (C) 1998-2001 by Lucent Technologies
All Rights Reserved

Permission to use, copy, modify, and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appear in all copies and that both that the copyright notice and this permission notice and warranty disclaimer appear in supporting documentation, and that the name of Lucent or any of its entities not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

LUCENT DISCLAIMS ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL LUCENT OR ANY OF ITS ENTITIES BE LIABLE FOR ANY SPECIAL, 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.

(4) Advanced Micro Devices

Copyright 1989, 1990 Advanced Micro Devices, Inc.

This software is the property of Advanced Micro Devices, Inc (AMD) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by AMD.

AMD MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL AMD BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems or suggestions about this software to the 29K Technical Support Center at 800-29-29-AMD (800-292-9263) in the USA, or 0800-89-1131 in the UK, or 0031-11-1129 in Japan, toll free. The direct dial number is 512-462-4118.

Advanced Micro Devices, Inc.

29K Support Products

Mail Stop 573

5900 E. Ben White Blvd.

Austin, TX 78741

800-292-9263

(5)

(6)

(7) Sun Microsystems

Copyright (C) 1993 by Sun Microsystems, Inc. All rights reserved.

Developed at SunPro, a Sun Microsystems, Inc. business.

Permission to use, copy, modify, and distribute this software is freely granted, provided that this notice is preserved.

(8) Hewlett Packard

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS" without any express or implied warranty:

permission to use, copy, modify, and distribute this file for any purpose is hereby granted without fee, provided that the above copyright notice and this notice appears in all copies, and that the name of Hewlett-Packard Company not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission.

Hewlett-Packard Company makes no representations about the suitability of this software for any purpose.

(9) Hans-Peter Nilsson

Copyright (C) 2001 Hans-Peter Nilsson

Permission to use, copy, modify, and distribute this software is freely granted, provided that the above copyright notice, this notice and the following disclaimer are preserved with no changes.

THIS SOFTWARE IS PROVIDED ``AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

(10) Stephane Carrez (m68hc11-elf/m68hc12-elf targets only)

Copyright (C) 1999, 2000, 2001, 2002 Stephane Carrez (stcarrez@nerim.fr)

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses.

Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(11) Christopher G. Demetriou

Copyright (c) 2001 Christopher G. Demetriou

All rights reserved.

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

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

with the distribution.

3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

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

(12) SuperH, Inc.

Copyright 2002 SuperH, Inc. All rights reserved

This software is the property of SuperH, Inc (SuperH) which specifically grants the user the right to modify, use and distribute this software provided this notice is not removed or altered. All other rights are reserved by SuperH.

SUPERH MAKES NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, WITH REGARD TO THIS SOFTWARE. IN NO EVENT SHALL SUPERH BE LIABLE FOR INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES IN CONNECTION WITH OR ARISING FROM THE FURNISHING, PERFORMANCE, OR USE OF THIS SOFTWARE.

So that all may benefit from your experience, please report any problems or suggestions about this software to the SuperH Support Center via e-mail at softwaresupport@superh.com.

SuperH, Inc.
405 River Oaks Parkway
San Jose
CA 95134
USA

(13) Royal Institute of Technology

Copyright (c) 1999 Kungliga Tekniska Högskolan
(Royal Institute of Technology, Stockholm, Sweden).
All rights reserved.

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

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of KTH 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 KTH AND ITS 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 KTH OR ITS 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.

(14) Alexey Zelkin

Copyright (c) 2000, 2001 Alexey Zelkin phantom@FreeBSD.org
All rights reserved.

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

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

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

(15) Andrey A. Chernov

Copyright (C) 1997 by Andrey A. Chernov, Moscow, Russia.
All rights reserved.

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

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

THIS SOFTWARE IS PROVIDED BY THE AUTHOR ``AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE REGENTS OR CONTRIBUTORS BE LIABLE FOR

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

(16) FreeBSD

Copyright (c) 1997-2002 FreeBSD Project.

All rights reserved.

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

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

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

(17) S. L. Moshier

Author: S. L. Moshier.

Copyright (c) 1984,2000 S.L. Moshier

Permission to use, copy, modify, and distribute this software for any purpose without fee is hereby granted, provided that this entire notice is included in all copies of any software which is or includes a copy or modification of this software and in all copies of the supporting documentation for such software.

THIS SOFTWARE IS BEING PROVIDED "AS IS", WITHOUT ANY EXPRESS OR IMPLIED WARRANTY. IN PARTICULAR, THE AUTHOR MAKES NO REPRESENTATION OR WARRANTY OF ANY KIND CONCERNING THE MERCHANTABILITY OF THIS SOFTWARE OR ITS FITNESS FOR ANY PARTICULAR PURPOSE.

(18) Citrus Project

Copyright (c)1999 Citrus Project,

All rights reserved.

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

1. Redistributions of source code must retain the above copyright notice, this list of condi-

tions and the following disclaimer.

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

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

(19) Todd C. Miller

Copyright (c) 1998 Todd C. Miller Todd.Miller@courtesan.com

All rights reserved.

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

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. The name of the author may not be used to endorse or promote products derived from this software without specific prior written permission.

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

(20) DJ Delorie (i386 / arm)

Copyright (C) 1991 DJ Delorie

All rights reserved.

Redistribution, modification, and use in source and binary forms is permitted provided that the above copyright notice and following paragraph are duplicated in all such forms.

This file is distributed WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

(21) Free Software Foundation LGPL License (*-linux* targets only)

Copyright (C) 1990-1999, 2000, 2001 Free Software Foundation, Inc.

This file is part of the GNU C Library.

Contributed by Mark Kettenis <kettenis@phys.uva.nl>, 1997.

The GNU C Library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

The GNU C Library 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 Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with the GNU C Library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

(22) Xavier Leroy LGPL License (if[3456]86-*-linux* targets only)

Copyright (C) 1996 Xavier Leroy (Xavier.Leroy@inria.fr)

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

This program 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 Library General Public License for more details.

(23) Intel (i960)

Copyright (c) 1993 Intel Corporation

Intel hereby grants you permission to copy, modify, and distribute this software and its documentation. Intel grants this permission provided that the above copyright notice appears in all copies and that both the copyright notice and this permission notice appear in supporting documentation. In addition, Intel grants this permission provided that you prominently mark as "not part of the original" any modifications made to this software or documentation, and that the name of Intel Corporation not be used in advertising or publicity pertaining to distribution of the software or the documentation without specific, written prior permission.

Intel Corporation provides this AS IS, WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Intel makes no guarantee or representations regarding the use of, or the results of the use of, the software and documentation in terms of correctness, accuracy, reliability, currentness, or otherwise; and you rely on the software, documentation and results solely at your own risk.

IN NO EVENT SHALL INTEL BE LIABLE FOR ANY LOSS OF USE, LOSS OF BUSINESS, LOSS OF PROFITS, INDIRECT, INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. IN NO EVENT SHALL INTEL'S TOTAL LIABILITY EXCEED THE SUM PAID TO INTEL FOR THE PRODUCT LICENSED HEREUNDER.

(24) Hewlett-Packard (hppa targets only)

(c) Copyright 1986 HEWLETT-PACKARD COMPANY

To anyone who acknowledges that this file is provided "AS IS" without any express or implied warranty:

permission to use, copy, modify, and distribute this file for any purpose is hereby granted without fee, provided that the above copyright notice and this notice appears in all copies, and that the name of Hewlett-Packard Company not be used in advertising or publicity pertaining to distribution of the software without specific, written prior permission. Hewlett-Packard Company makes no representations about the suitability of this software for any purpose.

(25) Henry Spencer (only *-linux targets)

Copyright 1992, 1993, 1994 Henry Spencer. All rights reserved.

This software is not subject to any license of the American Telephone and Telegraph Company or of the Regents of the University of California.

Permission is granted to anyone to use this software for any purpose on any computer system, and to alter it and redistribute it, subject to the following restrictions:

1. The author is not responsible for the consequences of use of this software, no matter how awful, even if they arise from flaws in it.
2. The origin of this software must not be misrepresented, either by explicit claim or by omission. Since few users ever read sources, credits must appear in the documentation.
3. Altered versions must be plainly marked as such, and must not be misrepresented as being the original software. Since few users ever read sources, credits must appear in the documentation.
4. This notice may not be removed or altered.

(26) Mike Barcroft

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

All rights reserved.

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

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

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

(27) Konstantin Chuguev (--enable-newlib-iconv)

Copyright (c) 1999, 2000

Konstantin Chuguev. All rights reserved.

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

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

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

iconv (Charset Conversion Library) v2.0

(28) Artem Bityuckiy (--enable-newlib-iconv)

Copyright (c) 2003, Artem B. Bityuckiy, SoftMine Corporation.

Rights transferred to Franklin Electronic Publishers.

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

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

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

(29) IBM, Sony, Toshiba (only spu-* targets)

(C) Copyright 2001,2006,
International Business Machines Corporation,
Sony Computer Entertainment, Incorporated,
Toshiba Corporation,

All rights reserved.

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

- * Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- * Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- * Neither the names of the copyright holders nor the names of their 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.

(30) - Alex Tatmanjants (targets using libc/posix)

Copyright (c) 1995 Alex Tatmanjants alex@elvisti.kiev.ua
at Electronni Visti IA, Kiev, Ukraine.
All rights reserved.

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

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

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

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

(31) - M. Warner Losh (targets using libc/posix)

Copyright (c) 1998, M. Warner Losh imp@freebsd.org
All rights reserved.

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

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

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

(32) - Andrey A. Chernov (targets using libc/posix)

Copyright (C) 1996 by Andrey A. Chernov, Moscow, Russia.
All rights reserved.

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

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

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

(33) - Daniel Eischen (targets using libc/posix)

Copyright (c) 2001 Daniel Eischen <deischen@FreeBSD.org>.
All rights reserved.

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

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

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

(34) - Jon Beniston (only lm32-* targets)

Contributed by Jon Beniston <jon@beniston.com>

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

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

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

(35) - ARM Ltd (arm and thumb variant targets only)

Copyright (c) 2009-2015 ARM Ltd
All rights reserved.

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

1. Redistributions of source code must retain the above copyright notice, this list of condi-

tions 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. The name of the company may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY ARM LTD "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 ARM LTD 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.

(36) - Xilinx, Inc. (microblaze-* and powerpc-* targets)

Copyright (c) 2004, 2009 Xilinx, 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:

1. Redistributions 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 Xilinx 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 HOLDER 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.

(37) Texas Instruments Incorporated (tic6x-*, *-tirtos targets)

Copyright (c) 1996-2010,2014 Texas Instruments Incorporated

<http://www.ti.com/>

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 Texas Instruments Incorporated 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.

(38) National Semiconductor (cr16-* and crx-* targets)

Copyright (c) 2004 National Semiconductor Corporation

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses.

Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(39) - Adapteva, Inc. (epiphany-* targets)

Copyright (c) 2011, Adapteva, 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 Adapteva 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 LIM-

ITED 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.

(40) - Altera Corporation (nios2-* targets)

Copyright (c) 2003 Altera Corporation
All rights reserved.

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

- o Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- o 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.
- o Neither the name of Altera Corporation 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 ALTERA CORPORATION, THE COPYRIGHT HOLDER, AND ITS 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.

(41) Ed Schouten - Free BSD

Copyright (c) 2008 Ed Schouten ed@FreeBSD.org
All rights reserved.

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

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

THIS SOFTWARE IS PROVIDED BY THE AUTHOR AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCURE-

MENT 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.

(42) - Rolls-Royce Controls and Data Services Limited (visium-* targets)

Copyright (c) 2015 Rolls-Royce Controls and Data Services Limited.

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 Rolls-Royce Controls and Data Services Limited 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.

(43) - FTDI (ft32-* targets)

Copyright (C) 2014 FTDI (support@ftdichip.com)

The authors hereby grant permission to use, copy, modify, distribute, and license this software and its documentation for any purpose, provided that existing copyright notices are retained in all copies and that this notice is included verbatim in any distributions. No written agreement, license, or royalty fee is required for any of the authorized uses.

Modifications to this software may be copyrighted by their authors and need not follow the licensing terms described here, provided that the new terms are clearly indicated on the first page of each file where they apply.

(44) - Synopsys Inc (arc-* targets)

Copyright (c) 2015, Synopsys, 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:

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 Synopsys, 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 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.

(45) Phoenix Systems - Phoenix-RTOS targets

Copyright (c) 2016 Phoenix Systems
All rights reserved.

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

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

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

(46) embedded brains - RTEMS targets

Copyright (c) 2017 embedded brains GmbH
All rights reserved.

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

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

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

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

(47) John Baldwin - RTEMS targets

Copyright (c) 2015 John Baldwin <jhb@FreeBSD.org>.

All rights reserved.

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

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

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

(48) Jeffrey Roberson - RTEMS targets

Copyright (c) 2008, Jeffrey Roberson jeff@freebsd.org

All rights reserved.

Copyright (c) 2008 Nokia Corporation

All rights reserved.

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

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

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

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

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

(49) - SiFive Inc. (riscv-* targets)

Copyright (c) 2017 SiFive Inc. All rights reserved.

This copyrighted material is made available to anyone wishing to use, modify, copy, or redistribute it subject to the terms and conditions of the FreeBSD License. This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY expressed or implied, including the implied warranties of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. A copy of this license is available at <http://www.opensource.org/licenses>.

(50) Michael R. Neilly (riscv-* targets)

(c) Copyright 2017 Michael R. Neilly
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 names of the copyright holders nor the names of their 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.

AM335x_SYSBIOS_Industrial_SDK 02.01.04.01

Copyrights

Copyright (c) 2011, Texas Instruments Incorporated

(c) ChaN, 2007

Copyright (c) 2007, ChaN

Copyright (c) 2011 John Resig, <http://jquery.com>

Copyright (c) 1995-2013 Jean-loup Gailly and Mark Adler

Copyright (c) 1989, 1991 Free Software Foundation, Inc.

copyrighted by the Free Software Foundation

Copyright (c) 1994-2009 Red Hat, Inc.

Copyright (c) 1981-2000 The Regents of the University of California

Copyright (c) 1991 by AT&T

Copyright (c) 1998-2001 by Lucent Technologies

Copyright 1989, 1990 Advanced Micro Devices, Inc.

Copyright (c) 1993 C.W. Sandmann

(c) Copyright 1992 Eric Backus

Copyright (c) 1993 by Sun Microsystems, Inc.

(c) Copyright 1986 HEWLETT-PACKARD COMPANY To

Copyright (c) 2001 Hans-Peter Nilsson

Copyright (c) 1999, 2000, 2001, 2002 Stephane Carrez (stcarrez@nerim.fr) The authors

Copyright (c) 2001 Christopher G. Demetriou

Copyright 2002 SuperH, Inc.

Copyright (c) 1999 Kungliga Tekniska Högskolan (Royal Institute of Technology, Stockholm, Sweden)

Copyright (c) 2000, 2001 Alexey Zelkin ltphantom@FreeBSD.org

Copyright (c) 1997 by Andrey A. Chernov, Moscow, Russia

Copyright (c) 1997-2002 FreeBSD Project

Copyright (c) 1984,2000 S.L. Moshier

Copyright (c) 1999 Citrus Project

Copyright (c) 1998 Todd C. Miller Todd.Miller@courtesan.com

Copyright (c) 1991 DJ Delorie

Copyright (c) 1990-1999, 2000, 2001 Free Software Foundation, Inc.

Copyright (c) 1996 Xavier Leroy (Xavier.Leroy@inria.fr)

Copyright (c) 1993 Intel Corporation Intel

Copyright 1992, 1993, 1994 Henry Spencer

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

Copyright (c) 1999, 2000 Konstantin Chuguev
Copyright (c) 2003, Artem B. Bityuckiy, SoftMine Corporation
(c) Copyright 2001,2006, International Business Machines Corporation, Sony Computer Entertainment, Incorporated, Toshiba Corporation
Copyright (c) 1995 Alex Tatmanjants
Copyright (c) 1998, M. Warner Losh <w@freebsd.org
Copyright (c) 1996 by Andrey A. Chernov, Moscow, Russia
Copyright (c) 2001 Daniel Eischen <deischen@FreeBSD.org
Copyright (c) 2009 ARM Ltd
Copyright (c) 2004, 2009 Xilinx, Inc.
Copyright (c) 1996-2010 Texas Instruments Incorporated <http://www.ti.com>
Copyright (c) 2004 National Semiconductor Corporation The authors
Hewlett-Packard Company
S. L. Moshier
Intel Corporation
Copyright 2017, Texas Instruments Incorporated
Copyright (c) 2015, Texas Instruments Incorporated
Copyright (c) 2014 Texas Instruments Incorporated
Copyright (c) 2012 Texas Instruments Incorporated
Copyright (c) 2008 Texas Instruments and others
Copyright 1993-2003 by InterNiche Technologies Inc.
Copyright 2000-2010 By InterNiche Technologies Inc.
Dirk Brauner, Detlef Arndt
Copyright (c) 2012 Woodhead Software & Electronics
Copyright (c) 2015 Texas Instruments Incorporated - <http://www.ti.com>
Rafael de Souza
Copyright (c) 1998-2015 Texas Instruments Incorporated
(c) Copyright 2015, Texas Instruments, Inc
Copyright (c) 2015 Texas Instruments Incorporated
Copyright (c) 1998-2014 Texas Instruments Incorporated
(c) Copyright 2013, Texas Instruments, Inc
Copyright (c) 1998-2010 Texas Instruments Incorporated
(c) Copyright 2010, Texas Instruments, Inc
Vijaya Sarathy
Copyright (c) 2016, Texas Instruments Incorporated
(c) Copyright 2010-2015, Texas Instruments, Inc
(c) Copyright 2012-2015, Texas Instruments, Inc
(c) Copyright 2014-2015, Texas Instruments, Inc

(c) Copyright 2012, Texas Instruments, Inc
Copyright (c) 2016 Texas Instruments Incorporated
Copyright (c) Texas Instruments Inc 2011-12
Copyright (c) 2015 2016 Texas Instruments Incorporated
Copyright 2011 (c) Woodhead Software & Electronics, a Division of Molex
Copyright 2006 (c) Woodhead Software & Electronics
Copyright 2001-2006 (c) Woodhead Software & Electronics
Copyright 2008 (c) Woodhead Software & Electronics
Copyright 2007 (c) Woodhead Software & Electronics
Copyright 2004 (c) Woodhead Software & Electronics
Copyright 2006-2007 (c) Woodhead Software & Electronics
Copyright (c) 1998-2012 Texas Instruments Incorporated
Copyright 2001-2008 (c) Woodhead Software & Electronics
Copyright 2004-2008 (c) Woodhead Software & Electronics
Copyright 2004-2006 (c) Woodhead Software & Electronics
Dirk Brauner
Copyright (c) 2010-2014 Technologie Management Gruppe Technologie und Engineering GmbH
Holger Bttner
Detlef Arndt
Oliver H. Wirkus
Joerg Kuehner
Molex, (c) 2013
Copyright (c) 2006 Woodhead Software Electronics
Copyright (c) 2009 Woodhead Software Electronics
Copyright (c) 1998-2013 Texas Instruments Incorporated
(c) Copyright 2012-2014, Texas Instruments, Inc
Copyright (c) 2006 Woodhead Software & Electronics
Copyright (c) 2009 Woodhead Software & Electronics
Copyright (c) 2011-2012 George V. Neville-Neil, Steven Kreuzer, Martin Burnicki
Copyright (c) 2009-2010 George V. Neville-Neil, Steven Kreuzer, Martin Burnicki
Copyright (c) 2005-2008 Kendall Correll, Aidan Williams
Copyright (c) 2012-2015 Wojciech Owczarek
Copyright (c) 2015 Wojciech Owczarek
Copyright (c) 2014 Perseus Telecom
Copyright (c) 2013-2014 Harlan Stenn, George N. Neville-Neil, Wojciech Owczarek
Martin Burnicki, Alexandre van Kempen, Steven Kreuzer, George Neville-Neil
George Neville-Neil <gnn@neville-neil.com>

Copyright (c) 2014 Wojciech Owczarek, George V. Neville-Neil
Copyright (c) 2012-2013 George V. Neville-Neil, Wojciech Owczarek
Portions Copyright 1988, 1989 by Carnegie Mellon University
Copyright 1990-96 by NetPort Software
Copyright 1996-2012 By InterNiche Technologies Inc.
Copyright 2013 By InterNiche Technologies Inc.
Copyright 1990-2011 by InterNiche Technologies, Inc.
Copyright 1997-2008 by InterNiche Technologies
Copyright 1996-2004 By InterNiche Technologies Inc.
Portions Copyright 1990, 1993 by NetPort Software
Copyright 2000 By InterNiche Technologies Inc.
Copyright 1997 - 2000 By InterNiche Technologies Inc.
Copyrights Copyright (c) 1982, 1986 Regents of the University of California
Copyright (c) 2013 Texas Instruments Incorporated - <http://www.ti.com>
Copyright (c) 2008-2010 Texas Instruments Incorporated
Copyright (CU) 2015 Texas Instruments Incorporated - <http://www.ti.com>
Copyright (CU) 2014 Texas Instruments Incorporated - <http://www.ti.com>
Copyright (c) 2010 Texas Instruments Incorporated - <http://www.ti.com>
Copyright (c) 2011 Texas Instruments Incorporated - <http://www.ti.com>
Copyright (c) 2013 Texas Instruments Incorporated
Copyright (c) 2014 Texas Instruments Incorporated - <http://www.ti.com>
Copyright (c) 2013 Texas Instruments Inc - <http://www.ti.com>
Copyright (c) 2008-2013 Texas Instruments Incorporated
R. Swaminathan (swaminathan@ti.com)
Copyright (c) 2007-2010 Texas Instruments Incorporated
Copyright (c) 2009-2010 Texas Instruments Incorporated
Copyright (c) 2006-2010 Texas Instruments Incorporated
Copyright (c) 2010-2012 Texas Instruments Incorporated - <http://www.ti.com>
(c) ChaN, 2013 FatFs
Copyright (c) 2013, ChaN
(c) ChaN, 2013 FatFsmoziyuruha, Xiao Gui Mo
(c) ChaN, 2013
Copyright (c) 2012, ChaN
(c) ChaN, 2009
(c) ChaN, 2012
Copyright 2001-2010 Georges Menie (www.menie.org)
Copyright (c) 2013 Texas Instruments Incorporated - <http://www.ti.com>

(c) Copyright 2004-2008 Texas Instruments, <www.ti.com>
Copyright 2008 by Texas Instruments Incorporated
Copyright (c) 2004 Texas Instruments
Copyright (c) 2003 Wolfgang Denk, wd@denx.de
Jian Zhang jzhang@ti.com, Texas Instruments
mansoor.ahamed@ti.com
Copyright 2007 by Spectrum Digital Incorporated
Copyright (c) 2010 Dirk Behme <dirk.behme@googlemail.com>
Copyright (c) 2005, 2006 Nokia Corporation
Copyright (c) 2008 Atmel Corporation
Copyright (c) 2008 Texas Instruments, Inc <www.ti.com>
Copyright (c) 2009 Texas Instruments Incorporated - http://www.ti.com
Copyright (c) 2007 Atmel Corporation
(c) Copyright 2000-2002 Wolfgang Denk, DENX Software Engineering, wd@denx.de
Copyright 2008, Network Appliance Inc. Jason McMullan <mcmullan@netapp.com>
Copyright (c) 2004-2007 Freescale Semiconductor, Inc. TsiChung Liew (Tsi-Chung.Liew@freescale.com)
Copyright 2008, Texas Instrumemnts Inc.
Copyright (c) 2008 Texas Instruments Incorporated
Copyright (c) 1996-2014 Texas Instruments Incorporated

License

OS Drivers, ICSS firmware for EthernetIP adapter, Starterware dal/include/mmcsd lib/soc used

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 Texas Instruments Incorporated 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.

STM32CubeF7 1.2.0

Copyrights

Copyright 2015 STMicroelectronics
(c) COPYRIGHT (c) 2014 STMicroelectronics
(c) COPYRIGHT STMicroelectronics
Copyright 2014 STMicroelectronics
(c) COPYRIGHT (c) 2015 STMicroelectronics
Copyright (c) 2011-2014 ARM Limited
(c) COPYRIGHT 2015 STMicroelectronics
Copyright (c) 2012 ARM LIMITED
Copyright 2011, AUTHORS.txt (<http://jqueryui.com/about>)
Copyright (c) 2010 Cowboy Ben Alman
Copyright (c) 2007-2009 Ariel Flesler
Ariel Flesler
Copyright (c) 2009 by Dimitri van Heesch
Copyright (c) 2003-2008 Greg Valure
Copyright (c) 2010-2012 ARM Limited
Copyright (c) 2010-2015 ARM Limited
Copyright (c) 2013 ARM LIMITED
Copyright (c) 2009-2015 ARM Limited
Copyright (c) 2011 - 2014 ARM LIMITED
Copyright (c) 2011 - 2012 ARM LIMITED
Copyright (c) 2010-2013 ARM Limited
Copyright (c) 2010-2014 ARM Limited
Copyright (c) 2009 - 2015 ARM LIMITED
Copyright (c) 2009 - 2014 ARM LIMITED
Copyright (c) 2009-2014 ARM Limited
Copyright (c) 2015 STMicroelectronics
Portions COPYRIGHT 2015 STMicroelectronics
(c) 1996 - 2015 SEGGER Microcontroller GmbH & Co. KG
(c) 1997 - 2015 SEGGER Microcontroller GmbH & Co. KG, Hilden
(c) 1997 - 2015 SEGGER Microcontroller GmbH & Co. KG
(c) 1996 - 2015 SEGGER Software GmbH
Copyright (c) 1998-2012 SEGGER Microcontroller GmbH & Co. KG www.segger.com
Portions COPYRIGHT 2014 STMicroelectronics
(c) 1996 - 2014 SEGGER Microcontroller GmbH & Co. KG

Copyright 1995-2005 Jean-loup Gailly
Copyright 1995-2005 Mark Adler
(c) 1998 - 2015 Segger Microcontroller GmbH & Co. KG
(c) 2015 Segger Microcontroller GmbH & Co. KG www.segger.com
Copyright (c) 2015 Segger Microcontroller GmbH & Co. KG www.segger.com
(c) 2015 Segger Microcontroller GmbH & Co. KG Internet www.segger.com
Copyright (c) 1998-2007 Glenn Randers-Pehrson
Copyright (c) 1996-1997 Andreas Dilger
Copyright (c) 1995-1996 Guy Eric Schalnat, Group 42, Inc.
(c) 2006 SEGGER Microcontroller Systeme GmbH
(c) COPYRIGHT 2011 STMicroelectronics
(c) ChaN, 2015
Copyright (c) 2015, ChaN
(c) ChaN, 2014
Portions Copyright (c) 2014, ChaN
Portions Copyright (c) 2015, ChaN
(c) ChaN, 2009
(c) ChaN, 2012
Copyright (c) 1989, 1991 Free Software Foundation, Inc.
copyrighted by the Free Software Foundation
Copyright (c) 2015 Real Time Engineers Ltd.
Portions Copyright (c) 2015 Real Time Engineers Ltd
Portions Copyright (c) 2013 ARM LIMITED
Copyright (c) 1991-1996, Thomas G. Lane
Spencer, Keppel
Copyright (c) 1994-2009, Thomas G. Lane, Guido Vollbeding
Copyright (c) 1991-2011, Thomas G. Lane, Guido Vollbeding
Copyright (c) 1991-1994, Thomas G. Lane
Copyright (c) 1992, Thomas G. Lane
Copyright (c) 1994-2011, Thomas G. Lane, Guido Vollbeding
Bob Friesenhahn, Guido Vollbeding
copyright (c) 1991-2012, Thomas G. Lane, Guido Vollbeding
copyright holder, Aladdin Enterprises of Menlo Park
copyright by the Free Software Foundation
copyright by X Consortium
Copyright property of CompuServe Incorporated
Portions Copyright (c) 1994-2011, Thomas G. Lane, Guido Vollbeding

Copyright (c) 1991-2012, Thomas G. Lane, Guido Vollbeding
Copyright (c) 1994-1997, Thomas G. Lane
Copyright (c) 1994-1996, Thomas G. Lane
Copyright (c) 1992-1997, Thomas G. Lane
Copyright (c) 1991-1997, Thomas G. Lane
Copyright (c) 1991-1998, Thomas G. Lane
Copyright (c) 2012, Thomas G. Lane, Guido Vollbeding
Copyright (c) 1997-2011, Thomas G. Lane, Guido Vollbeding
Copyright (c) 1989, 2000 Aladdin Enterprises
Jim Meyering <meyering@ascend.com>
Tom Lane <tgl@sss.pgh.pa.us>
Francois Pinard <pinard@iro.umontreal.ca>
Jim Avera <jima@netcom.com>
Copyright (c) 1994-1998, Thomas G. Lane
Copyright (c) 1995-1998, Thomas G. Lane
Copyright (c) 1995-1997, Thomas G. Lane
Copyright (c) 1992-1996, Thomas G. Lane
Copyright (c) 1995-2011, Thomas G. Lane, Guido Vollbeding
Copyright (c) 1988 by Jef Poskanzer
Copyright (c) 1989 by Jef Poskanzer
<arasmussen@consultant.datasys.swri.edu>
Copyright (c) 2001, 2002 Swedish Institute of Computer Science
Adam Dunkels <adam@sics.se>
Adam Dunkels at the Computer and Networks Architectures (CNA)
Copyright (c) 2001-2004 Swedish Institute of Computer Science
Adam Dunkels, Leon Woestenberg, Christiaan Simons
Christiaan Simons
Adam Dunkels
Simon Goldschmidt
Copyright (c) 2001-2004 Leon Woestenberg <leon.woestenberg@gmx.net>
Copyright (c) 2001-2004 Axon Digital Design B.V., The Netherlands
Leon Woestenberg <leon.woestenberg@gmx.net>
Copyright (c) 2002-2003, Adam Dunkels
Adam Dunkels <adam@sics.se> Simon Goldschmidt
Copyright (c) 2007 Dominik Spies <kontakt@dspies.de>
Dominik Spies <kontakt@dspies.de>
Copyright (c) 2002 CITEL Technologies Ltd.

Jani Monoses <jani@iv.ro> Simon Goldschmidt
Copyright (c) 2006 Axon Digital Design B.V., The Netherlands
Christiaan Simons <christiaan.simons@axon.tv>
Jani Monoses <jani@iv.ro>
Jim Pettinato
Copyright (c) 2001, 2002 Leon Woestenberg <leon.woestenberg@axon.tv>
Copyright (c) 2001, 2002 Axon Digital Design B.V., The Netherlands
Leon Woestenberg <leon.woestenberg@axon.tv>
Copyright (c) 2001-2003 Swedish Institute of Computer Science
Copyright (c) 2003-2004 Leon Woestenberg <leon.woestenberg@axon.tv>
Copyright (c) 2003-2004 Axon Digital Design B.V., The Netherlands
Copyright (c) 2006 by Marc Boucher, Services Informatiques (MBSI) inc.
Copyright (c) 2002 The NetBSD Foundation, Inc.
Martin Husemann <martin@NetBSD.org>
the NetBSD Foundation, Inc. and its contributors
Copyright (c) 2001, Swedish Institute of Computer Science
(c) COPYRIGHT 2012 STMicroelectronics
Magnus Ivarsson
Copyright (c) 2003 by Marc Boucher, Services Informatiques (MBSI) inc.
Copyright (c) 1997 by Global Election Systems Inc.
Copyright (c) 1993 The Australian National University
Copyright (c) 1989 Carnegie Mellon University
the Australian National University
Carnegie Mellon University
portions Copyright (c) 1998 Global Election Systems Inc.
portions Copyright (c) 1997 by Global Election Systems Inc.
Copyright (c) 1991 Gregory M. Christy
Gregory M. Christy
Copyright (c) 1995 Eric Rosenquist, Strata Software Limited. <http://www.strataware.com>
Eric Rosenquist
Copyright (c) 1997 Global Election Systems Inc.
portions Copyright (c) 1997 Global Election Systems Inc.
Copyright (c) 1990, RSA Data Security, Inc.
Copyright (c) 1994 The Australian National University
portions Copyright (c) 2001 by Cognizant Pty Ltd.
Copyright (c) 1998 by Global Election Systems Inc.
Copyright (c) 1998 Global Election Systems Inc.

Copyright (c) 1989 Regents of the University of California
the University of California, Berkeley
Paul Mackerras, paulus@cs.anu.edu.au
Guy Lancaster, glanca@gesn.com
Portions Copyright (c) 2006-2013, Brainspark B.V
Copyright (c) 2006-2013, Brainspark B.V
Copyright (c) 2006-2011, Brainspark B.V
Copyright (c) 2006-2012, Brainspark B.V
Copyright (c) 2006-2010, Brainspark B.V
Copyright (c) 2012-2013, Brainspark B.V
Adriaan de Jong <dejong@fox-it.com>
Mathias Olsson <mathias@kompetensum.com>
Copyright (c) 2011-2012 Brainspark B.V
Copyright (c) 2008 Ian Blumel
Copyright (c) 2008, Ian Blumel (ian.blumel@gmail.com)
(c) Keil Software
(c) Copyright Ac6
Copyright (c) 2014 Real Time Engineers Ltd.
(c) 2015 STMicroelectronics
Adam Dunkels at the Swedish Institute of Computer Science
(c) Copyright System
(c) 1996 - 2004 SEGGER Microcontroller Systeme GmbH
(c) 1996 - 2011 SEGGER Microcontroller Systeme GmbH
Copyright (c) 2013 Real Time Engineers Ltd.
Portions Copyright (c) 2012 STMicroelectronics
Portions SPIRIT Audio Engine Copyright (c) 1995-2009
Portions COPYRIGHT 2012 STMicroelectronics
Copyright (c) 2011 SPIRIT
(c) 2011, SPIRIT
Copyright (c) STMicroelectronics 2015
Texas Instruments
Sergio Perez Alcaniz <serpeal@upvnet.upv.es> Departamento de Informatica
COPYRIGHT APRIL 2006, DESIGN4FPGA
Copyright (c) 2005-2007 Keil Software
(c) 1998 - 2015 Segger Microcontroller GmbH & Co. KG
Copyright (c) 2014 Keil - An ARM Company
(c) 2004 Jakub Steiner

License

CMSIS

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 STMicroelectronics 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.

STM32F7xx_HAL_Driver

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 STMicroelectronics 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.

► Support

Technical support is available from Pilz round the clock.

Americas

Brazil

+55 11 97569-2804

Canada

+1 888 315 7459

Mexico

+52 55 5572 1300

USA (toll-free)

+1 877-PILZUSA (745-9872)

Asia

China

+86 21 60880878-216

Japan

+81 45 471-2281

South Korea

+82 31 778 3300

Australia and Oceania

Australia

+61 3 95600621

New Zealand

+64 9 6345350

Europe

Austria

+43 1 7986263-0

Belgium, Luxembourg

+32 9 3217570

France

+33 3 88104003

Germany

+49 711 3409-444

Ireland

+353 21 4804983

Italy, Malta

+39 0362 1826711

Scandinavia

+45 74436332

Spain

+34 938497433

Switzerland

+41 62 88979-32

The Netherlands

+31 347 320477

Turkey

+90 216 5775552

United Kingdom

+44 1536 462203

You can reach our international hotline on:

+49 711 3409-222

support@pilz.com

Pilz develops environmentally-friendly products using ecological materials and energy-saving technologies. Offices and production facilities are ecologically designed, environmentally-aware and energy-saving. So Pilz offers sustainability, plus the security of using energy-efficient products and environmentally-friendly solutions.



We are represented internationally. Please refer to our homepage www.pilz.com for further details or contact our headquarters.

Headquarters: Pilz GmbH & Co. KG, Felix-Wankel-Straße 2, 73760 Ostfildern, Germany
Telephone: +49 711 3409-0, Telefax: +49 711 3409-133, E-Mail: info@pilz.com, Internet: www.pilz.com

PILZ
THE SPIRIT OF SAFETY

1006248-EN-01, 2022-04 Printed in Germany
© Pilz GmbH & Co. KG, 2019

CECE®, CHRE®, CMSE®, InduraNET p®, Leansafe®, Master of Safety®, Master of Security®, PAS4000®, PAScall®, PASconfig®, Pilz®, PTT®, PLID®, PMCPirimo®, PMCPiritego®, PMCTendo®, PMD®, PMJ®, PNOZ®, PRCM®, PRM®, PRM®, PRM®, PRTM®, PSEN®, PSS®, PVS®, SafetyBUS p®, SafetyEYE®, SafetyNET p®, THE SPIRIT OF SAFETY® are registered and protected trademarks of Pilz GmbH & Co. KG in some countries. We would point out that product features may vary from the details stated in this document, depending on the status at the time of publication and the scope of the equipment. We accept no responsibility for the validity, accuracy and entirety of the text and graphics presented in this information. Please contact our Technical Support if you have any questions.