**OPEN SOURCE SOFTWARE NOTICE**

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

**Warranty Disclaimer**

**The open source software in this product is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the applicable licenses for more details.**

**Copyright Notice and License Texts**

**Software:** gmp 6.2.1

**Copyright notice:**

Copyright (C) 2000, 2002, 2004, 2015 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009, 2010, 2017 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2004, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2002, 2014 Free Software Foundation, Inc.  
Copyright 1994, 1996, 2001 Free Software Foundation, Inc.  
Copyright 2013, 2016 Free Software Foundation, Inc.  
Copyright 1999, 2000, 2002, 2003, 2005 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000-2002, 2006, 2012 Free Software Foundation, Inc.  
Copyright 2001, 2005 Free Software Foundation, Inc.  
Copyright 2008, 2009 Free Software Foundation, Inc.  
Copyright 2006-2010 Free Software Foundation, Inc.  
Copyright 2010-2012, 2015-2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2012 Free Software Foundation, Inc.  
Copyright 2018, Free Software Foundation, Inc.  
Copyright 2001, 2002, 2013, 2014 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1995, 2000, 2001, 2015, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1994-1996, 2000, 2001, 2005, 2014 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2001, 2002, 2012 Free Software Foundation, Inc.  
Copyright 2010-2012, 2015, 2016 Free Software Foundation, Inc.  
Copyright 1996, 1998, 2000-2004, 2008, 2012, 2019 Free Software Foundation, Inc.  
Copyright (C) 2000-2002, 2004, 2008, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2002, 2004, 2011, 2012, 2015-2018 Free Software Foundation, Inc.  
Copyright 2012, 2013, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996-2002, 2005, 2015, 2016 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2010, 2012, 2014 Free Software Foundation, Inc.  
Copyright 2009, 2012 Free Software Foundation, Inc.  
Copyright 2001-2003, 2006, 2008, 2011-2015, 2018 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2005, 2012, 2016 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2008-2010, 2013 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009, 2010 Free Software Foundation, Inc.  
Copyright 2001, 2002 Free Software Foundation, Inc.  
Copyright 1991, 1993-1998, 2000-2005, 2008, 2010, 2012, 2019 Free Software Foundation, Inc.  
Copyright 1996, 1998, 2000-2004, 2008, 2010, 2011 Free Software Foundation, Inc.  
Copyright 1996, 2000, 2001 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2004, 2005 Free Software Foundation, Inc.  
Copyright 2002, 2005 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2002 Free Software Foundation, Inc.  
Copyright 2009, 2010 Free Software Foundation, Inc.  
Copyright 1998-2002, 2012 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2002, 2018 Free Software Foundation, Inc.  
Copyright 2001-2004 Free Software Foundation, Inc.  
Copyright 1993, 1995, 1996, 2001, 2002, 2008, 2009, 2012 Free Software Foundation, Inc.  
Copyright 2001-2003, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2005, 2008, 2009, 2012 Free Software Foundation, Inc.  
Copyright 2001-2003, 2008 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009, 2017 Free Software Foundation, Inc.  
Copyright 1996, 2001 Free Software Foundation, Inc.  
Copyright 1996, 2000-2002, 2005 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2005, 2009, 2018 Free Software Foundation, Inc.  
Copyright 2002 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2002, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2005-2007, 2009, 2010, 2017 Free Software Foundation, Inc.  
Copyright 1996, 1999-2001 Free Software Foundation, Inc.  
Copyright 1997, 1998, 2000, 2001, 2013 Free Software Foundation, Inc.  
Copyright 2000, 2001 Free Software Foundation, Inc.  
Copyright 2008-2010, 2014, 2015 Free Software Foundation, Inc.  
Copyright 1991-2017 Free Software Foundation, Inc.  
Copyright 2009, 2011, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000, 2001, 2005, 2011, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2004 Free Software Foundation, Inc.  
Copyright 1993-1996, 1999-2002, 2004, 2005, 2011, 2014 Free Software Foundation, Inc.  
Copyright 2001-2003, 2008, 2012 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2004 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2004, 2006, 2008-2010, 2014, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1994-1996, 2000, 2001, 2015, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2003, 2008-2010 Free Software Foundation, Inc.  
Copyright 2003, 2005 Free Software Foundation, Inc.  
Copyright 1996-2001, 2005, 2012, 2014 Free Software Foundation, Inc.  
Copyright 1999-2001, 2006 Free Software Foundation, Inc.  
Copyright 2009, 2015, 2018 Free Software Foundation, Inc.  
Copyright 1999-2002, 2004, 2005, 2008, 2010, 2012, 2015, 2017 Free Software Foundation, Inc.  
Copyright (C) 2007, 2009, 2010, 2012, 2015, 2016 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2020 Free Software Foundation, Inc.  
Copyright 2003-2005, 2008, 2011, 2012 Free Software Foundation, Inc.  
Copyright 2003, 2013 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2004 Free Software Foundation, Inc.  
Copyright 1993-1996, 2001, 2002, 2005, 2014 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1998-2001, 2003 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1998, 2001, 2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000-2003, 2005, 2014, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2002, 2004 Free Software Foundation, Inc.  
Copyright (C) 2000 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2004, 2011, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2001, 2002, 2011, 2020 Free Software Foundation, Inc.  
Copyright 1998-2001, 2005, 2008, 2009 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996-1998, 2000-2003, 2005, 2011-2013 Free Software Foundation, Inc.  
Copyright 1991-2018 Free Software Foundation, Inc.  
Copyright (C) 2007, 2009, 2010, 2012, 2014-2016 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2007, 2013 Free Software Foundation, Inc.  
Copyright 2018, 2019 Free Software Foundation, Inc.  
Copyright 1993-1996, 2001, 2003, 2004 Free Software Foundation, Inc.  
Copyright 2008-2010, 2014 Free Software Foundation, Inc.  
Copyright 2003, 2004, 2007, 2009, 2010, 2012, 2018 Free Software Foundation, Inc.  
Copyright 2009, 2012-2014, 2017 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2002, 2005, 2008, 2012 Free Software Foundation, Inc.  
Copyright 2009, 2010, 2012, 2015, 2020 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2001 Free Software Foundation, Inc.  
Copyright 1992-1994, 1996, 2000, 2002, 2009 Free Software Foundation, Inc.  
Copyright 1994-1996, 2001, 2002, 2004, 2005, 2012 Free Software Foundation, Inc.  
Copyright (C) 2007 Free Software Foundation, Inc. <http:fsf.org/>  
Copyright 1991, 1993, 1994, 1999-2003, 2009-2011 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000, 2001, 2005, 2012, 2015-2018 Free Software Foundation, Inc.  
Copyright 2011-2013, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2002, 2011 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2013 Free Software Foundation, Inc.  
Copyright 2011, 2016, 2018 Free Software Foundation, Inc.  
Copyright 2002, 2003, 2012 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000, 2001, 2004, 2005, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993-1998, 2000-2002, 2005-2007, 2009, 2012 Free Software Foundation, Inc.  
Copyright 1991-1994, 1996, 1997, 2000-2005, 2008, 2010, 2011, 2015, 2016 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2011 Free Software Foundation, Inc.  
Copyright 1999-2002 Free Software Foundation, Inc.  
Copyright 2004, 2015 Free Software Foundation, Inc.  
Copyright 1999-2003, 2005, 2006, 2008-2017, 2019 Free Software Foundation, Inc.  
Copyright 2012 Free Software Foundation, Inc.  
Copyright 2006-2010, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1992, 1994, 1996, 2000, 2011, 2012 Free Software Foundation, Inc.  
Copyright 1997, 1999-2002, 2005, 2008, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2001, 2003, 2005, 2011, 2012, 2015, 2016 Free Software Foundation, Inc.  
Copyright 2000-2002, 2005, 2010-2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1998, 1999, 2001, 2002, 2004, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2001-2003, 2009 Free Software Foundation, Inc.  
Copyright 2000-2002, 2004 Free Software Foundation, Inc.  
Copyright 2000-2005 Free Software Foundation, Inc.  
Copyright 2008 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2012, 2015, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2002, 2005, 2008, 2009, 2011-2013, 2015 Free Software Foundation, Inc.  
Copyright 1997, 1999-2002 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2003, 2008-2010, 2012 Free Software Foundation, Inc.  
Copyright 1991-1997, 1999-2019 Free Software Foundation, Inc.  
Copyright 2009, 2010, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1996, 2000, 2001, 2003 Free Software Foundation, Inc.  
Copyright 2002-2004 Free Software Foundation, Inc.  
Copyright 1994, 1996, 2000, 2001, 2009, 2012, 2019 Free Software Foundation, Inc.  
Copyright 2002, 2003 Free Software Foundation, Inc.  
Copyright 1999-2001, 2008, 2009, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2003, 2009, 2010 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009, 2012 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009, 2010, 2013-2015, 2018 Free Software Foundation, Inc.  
Copyright 2002, 2003, 2006 Free Software Foundation, Inc.  
Copyright 2000-2002, 2005, 2012, 2014, 2015 Free Software Foundation, Inc.  
Copyright 2000-2002 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000-2002 Free Software Foundation, Inc.  
Copyright 2000-2004, 2006, 2008, 2009 Free Software Foundation, Inc.  
Copyright 1996, 1999-2001, 2009 Free Software Foundation, Inc.  
Copyright 1993-1995, 2000-2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2004 Free Software Foundation, Inc.  
Copyright 2001 Free Software Foundation, Inc.  
Copyright 2011 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000, 2001 Free Software Foundation, Inc.  
Copyright 2001-2003, 2005, 2013, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009-2011, 2017 Free Software Foundation, Inc.  
Copyright 1991-1994, 1996, 2000-2002 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1995, 2001, 2003, 2018 Free Software Foundation, Inc.  
Copyright 2000, 2002, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1994-1996, 2001, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2007-2009, 2012, 2015, 2016, 2018 Free Software Foundation, Inc.  
Copyright 1994, 1996, 2001, 2002, 2009-2011 Free Software Foundation, Inc.  
Copyright 2010, 2013 Free Software Foundation, Inc.  
Copyright 2012, 2015, 2018 Free Software Foundation, Inc.  
Copyright 2003, 2004, 2009, 2011-2015, 2017 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000, 2001, 2005, 2012, 2013, 2015-2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2001, 2005, 2011, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2004, 2012, 2014, 2015 Free Software Foundation, Inc.  
Copyright 2002, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2004, 2009, 2010 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2010 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2004 Free Software Foundation, Inc.  
Copyright 2006-2010, 2012, 2014, 2018 Free Software Foundation, Inc.  
Copyright 2008, 2010 Free Software Foundation, Inc.  
Copyright 2006-2008, 2010, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2012, Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2001 Free Software Foundation, Inc.  
Copyright 1999-2004, 2013 Free Software Foundation, Inc.  
Copyright 1991, 1993-1996, 2001, 2002 Free Software Foundation, Inc.  
Copyright 2011-2015, 2017, 2019-2020 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2003, 2011 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000, 2001, 2009, 2012, 2013 Free Software Foundation, Inc.  
Copyright 1995, 1996, 2001-2003 Free Software Foundation, Inc.  
Copyright 2000-2003, 2005, 2013, 2015, 2019 Free Software Foundation, Inc.  
Copyright 1992-1994, 1996, 2000, 2002, 2004 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000, 2001, 2012, 2014, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2003, 2009, 2010, 2012-2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2011, 2014-2015 Free Software Foundation, Inc.  
Copyright 2011, 2013, 2018 Free Software Foundation, Inc.  
Copyright 1997, 2000-2002 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2004, 2015 Free Software Foundation, Inc.  
Copyright 2012, 2013, 2015, 2016 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2002, 2005, 2008, 2009, 2011, 2012, 2015, 2019 Free Software Foundation, Inc.  
Copyright 2012, 2015 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2003, 2019 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2002, 2013 Free Software Foundation, Inc.  
Copyright 2010, 2011 Free Software Foundation, Inc.  
Copyright 1993-1995, 1999, 2001, 2002, 2015 Free Software Foundation, Inc.  
Copyright 2008-2011, 2013 Free Software Foundation, Inc.  
Copyright 2000-2004, 2008-2013 Free Software Foundation, Inc.  
Copyright 2002, 2004, 2015 Free Software Foundation, Inc.  
Copyright 2004, 2005, 2009, 2010, 2012 Free Software Foundation, Inc.  
Copyright 2002, 2012, 2020 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2004, 2009, 2010 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2003, 2009, 2011 Free Software Foundation, Inc.  
Copyright 1997, 2000-2003, 2012, 2013 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2002, 2005, 2008, 2009, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1993-1995, 2000, 2001, 2003, 2004 Free Software Foundation, Inc.  
Copyright 1993-1996, 2001 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 1999-2002, 2006, 2007, 2020 Free Software Foundation, Inc.  
Copyright 2000-2002, 2012, 2013, 2017-2018 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2011, 2014, 2020 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2002, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993-1996, 2000-2002, 2012, 2013 Free Software Foundation, Inc.  
Copyright 2003-2005, 2008, 2010, 2011 Free Software Foundation, Inc.  
Copyright 2006-2010, 2013 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2004, 2011, 2012, 2014, 2016 Free Software Foundation, Inc.  
Copyright 2003, 2009 Free Software Foundation, Inc.  
Copyright 1993-1997, 2000-2003, 2005, 2006, 2011, 2015, 2017 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2002, 2005, 2010, 2015, 2016 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2003 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2001, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2001, 2002 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2006, 2011, 2018 Free Software Foundation, Inc.  
Copyright 2000-2006, 2008, 2009, 2011, 2012 Free Software Foundation, Inc.  
Copyright 2000-2004 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000, 2001, 2004, 2005, 2015 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2015 Free Software Foundation, Inc.  
Copyright 2001, 2009 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000, 2001 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2004, 2008-2010 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2004, 2008-2010, 2014, 2015 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2012, 2016 Free Software Foundation, Inc.  
Copyright 2007-2012, 2019 Free Software Foundation, Inc.  
Copyright 1993-1995, 2000, 2001 Free Software Foundation, Inc.  
Copyright 2009, 2014, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2001, 2011, 2012 Free Software Foundation, Inc.  
Copyright 2011, 2012, 2018 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2005, 2012, 2015, 2020 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2011, 2014, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1994-1997, 2000, 2001, 2004, 2005 Free Software Foundation, Inc.  
Copyright 1992-1994, 1996, 2000, 2002, 2008, 2009, 2011, 2013 Free Software Foundation, Inc.  
Copyright 1996, 1999-2002, 2009, 2012 Free Software Foundation, Inc.  
Copyright 1998-2002, 2012, 2013, 2015, 2017-2018 Free Software Foundation, Inc.  
Copyright 1994-1996, 2001, 2002, 2004, 2005, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2012, 2013 Free Software Foundation, Inc.  
Copyright 2001, 2004, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2001, 2002, 2004, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2001, 2004, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2007-2009, 2011, 2013 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2003, 2012, 2013 Free Software Foundation, Inc.  
Copyright 2006-2008, 2012 Free Software Foundation, Inc.  
Copyright 1997, 1999-2001 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000-2003, 2011, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2011-2013 Free Software Foundation, Inc.  
Copyright 1999 Free Software Foundation, Inc.  
Copyright 2002-2004, 2012, 2014 Free Software Foundation, Inc.  
Copyright 1996, 2001-2004 Free Software Foundation, Inc.  
Copyright 1994-1996, 2000, 2001, 2005, 2012 Free Software Foundation, Inc.  
Copyright 1998, 1999, 2001, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000-2002, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000, 2001, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2001-2003, 2005 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1998, 2001, 2002, 2004, 2005, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 2000, 2001 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2002 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2001, 2005, 2011, 2012, 2017 Free Software Foundation, Inc.  
Copyright 2001, 2014 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009, 2014, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2004, 2005, 2008-2010, 2014 Free Software Foundation, Inc.  
Copyright 1994, 1996, 2001, 2002, 2004 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2001, 2002, 2012 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2008, 2015 Free Software Foundation, Inc.  
Copyright 2008-2010 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2002 Free Software Foundation, Inc.  
Copyright 1991, 1993-1997, 2000, 2001, 2005, 2011, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1999-2001, 2009, 2012, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2004, 2009-2011, 2014 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2001, 2005, 2019 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2004, 2007 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000, 2001, 2012 Free Software Foundation, Inc.  
Copyright 2019 Free Software Foundation, Inc.  
Copyright 2009, 2012, 2013, 2016, 2018 Free Software Foundation, Inc.  
Copyright 2016 Free Software Foundation, Inc.  
Copyright 2000-2002, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2005-2007, 2009, 2010, 2013 Free Software Foundation, Inc.  
Copyright 2002, 2018-2019 Free Software Foundation, Inc.  
Copyright 2012, 2014, 2016, Free Software Foundation, Inc.  
Copyright 2007-2009, 2011-2014, 2018-2019 Free Software Foundation, Inc.  
Copyright 1993-1996, 2000-2002, 2004, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2001-2003 Free Software Foundation, Inc.  
Copyright 2001-2003, 2012 Free Software Foundation, Inc.  
Copyright 2003, 2012 Free Software Foundation, Inc.  
Copyright 2003, 2004, 2006, 2008 Free Software Foundation, Inc.  
Copyright 2006, 2009, 2011, 2012, 2017 Free Software Foundation, Inc.  
Copyright 1996, 1997, 2001, 2002, 2005, 2011 Free Software Foundation, Inc.  
Copyright 1996, 1997, 1999-2005 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 1999-2003, 2005-2007, 2009, 2010, 2012, 2014, 2019 Free Software Foundation, Inc.  
Copyright 2009, 2014, 2015, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1994-1996, 2000, 2001, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2004, 2006, 2008-2010 Free Software Foundation, Inc.  
Copyright 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2001, 2003, 2010 Free Software Foundation, Inc.  
Copyright 2001, 2003, 2005, 2012, 2015, 2016, 2018 Free Software Foundation, Inc.  
Copyright 2011-2015 Free Software Foundation, Inc.  
Copyright 2006, 2007, 2009 Free Software Foundation, Inc.  
Copyright 1992-1994, 1996, 2000, 2002, 2004, 2016 Free Software Foundation, Inc.  
Copyright 2013, 2014, 2018, Free Software Foundation, Inc.  
Copyright 1996, 1998, 2000-2004, 2008, 2011 Free Software Foundation, Inc.  
Copyright 1991-1994, 1996, 1997, 2000-2002 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2008-2011, 2014 Free Software Foundation, Inc.  
Copyright 1999-2004, 2010-2012 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2001, 2003, 2004 Free Software Foundation, Inc.  
Copyright 2020 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 1997, 1999, 2001, 2002, 2012 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2012 Free Software Foundation, Inc.  
Copyright 1994-1996, 1999, 2001, 2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2014-2015 Free Software Foundation, Inc.  
Copyright 1999, 2000, 2002 Free Software Foundation, Inc.  
Copyright 1996, 2000, 2001, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2002, 2011-2016 Free Software Foundation, Inc.  
Copyright 1993-1995, 2001, 2004 Free Software Foundation, Inc.  
Copyright 2009 Free Software Foundation, Inc.  
Copyright 2000-2002, 2018 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2012, 2014 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996-2002, 2005, 2014, 2018, 2019 Free Software Foundation, Inc.  
Copyright 1995, 1997-2003, 2005, 2009, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000-2002, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1996, 1999-2002, 2009, 2012, 2013, 2016, 2020 Free Software Foundation, Inc.  
Copyright 2010-2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2001, 2009, 2015 Free Software Foundation, Inc.  
Copyright 2010 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2002, 2005, 2012, 2017 Free Software Foundation, Inc.  
Copyright 1996, 2001, 2004, 2014 Free Software Foundation, Inc.  
Copyright 2001, 2012, 2014, 2015 Free Software Foundation, Inc.  
Copyright 2002, 2005, 2009-2012, 2015 Free Software Foundation, Inc.  
Copyright 2003-2005, 2008, 2009 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2001, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1993-1996, 1999-2002 Free Software Foundation, Inc.  
Copyright 1994, 1996, 2000-2002, 2005, 2011, 2012 Free Software Foundation, Inc.  
Copyright 2009, 2010, 2012 Free Software Foundation, Inc.  
Copyright 2005, 2006, 2009, 2011, 2012, 2017 Free Software Foundation, Inc.  
Copyright 2000-2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright 1996, 1997, 2001, 2002 Free Software Foundation, Inc.  
Copyright 2018-2019 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1999-2001, 2009, 2012, 2019 Free Software Foundation, Inc.  
Copyright 2000, 2005, 2011, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2002 Free Software Foundation, Inc.  
Copyright 2009, 2010, 2015, 2018 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000, 2001, 2012, 2020 Free Software Foundation, Inc.  
Copyright 2001, 2003, 2004, 2012 Free Software Foundation, Inc.  
Copyright 1999-2001 Free Software Foundation, Inc.  
Copyright 1995, 1996, 2000, 2001, 2004 Free Software Foundation, Inc.  
Copyright 1994, 1996, 1999-2004, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1994-1996, 2000-2002 Free Software Foundation, Inc.  
Copyright 2001, 2003 Free Software Foundation, Inc.  
Copyright 1999-2001, 2003-2005 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2006, 2012 Free Software Foundation, Inc.  
Copyright 2000-2006, 2008-2011 Free Software Foundation, Inc.  
Copyright 2002, 2003, 2013, 2014 Free Software Foundation, Inc.  
Copyright 1993-1995, 2000, 2001, 2003, 2004, 2012 Free Software Foundation, Inc.  
Copyright 2002, 2004, 2009, 2010 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2004 Free Software Foundation, Inc.  
Copyright (C) 2000-2002, 2004, 2008, 2009, 2012 Free Software Foundation, Inc.  
Copyright 2002, 2003, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1998, 2001, 2002, 2004, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1999-2003, 2005, 2006, 2008-2019 Free Software Foundation, Inc.  
Copyright 2013, 2015 Free Software Foundation, Inc.  
Copyright 2012-2014, 2016, 2018, 2020 Free Software Foundation, Inc.  
Copyright 1996 Free Software Foundation, Inc.  
Copyright 2012, 2014, Free Software Foundation, Inc.  
Copyright 1996, 1999, 2001, 2002, 2004, 2005, 2016 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1999-2002, 2004, 2012, 2013, 2015 Free Software Foundation, Inc.  
Copyright 1996, 1997, 1999-2001, 2006 Free Software Foundation, Inc.  
Copyright 2000-2002, 2004, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2000-2003, 2006 Free Software Foundation, Inc.  
Copyright 2003, 2004, 2011-2013, 2015, 2017, 2018 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000-2002, 2004, 2005, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2011, 2014 Free Software Foundation, Inc.  
Copyright 2000, 2002, 2012, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000-2002, 2009 Free Software Foundation, Inc.  
Copyright 2001, 2013 Free Software Foundation, Inc.  
Copyright 2002, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2001, 2003, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1997, 1998, 2001, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2000 Free Software Foundation, Inc.  
Copyright 2001, 2004 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996-2003, 2005, 2008, 2009 Free Software Foundation, Inc.  
Copyright 2001, 2013, 2014 Free Software Foundation, Inc.  
Copyright 2009, 2015 Free Software Foundation, Inc.  
Copyright 1999-2003, 2005, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2010, 2012 Free Software Foundation, Inc.  
Copyright 2003, 2009, 2011 Free Software Foundation, Inc.  
Copyright 1992-1994, 1996, 2000-2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright 1999-2002, 2010 Free Software Foundation, Inc.  
Copyright 1997, 2000-2002, 2005, 2009, 2015 Free Software Foundation, Inc.  
Copyright 1996, 2000-2002, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2001, 2005, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2004 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2005, 2008, 2009, 2012, 2014 Free Software Foundation, Inc.  
Copyright 1993-1996, 1999-2002, 2011, 2017 Free Software Foundation, Inc.  
Copyright 2007, 2009 Free Software Foundation, Inc.  
Copyright 2006-2008, 2012, 2014 Free Software Foundation, Inc.  
Copyright 1997, 2000, 2001 Free Software Foundation, Inc.  
Copyright 1995, 1996, 2001-2005, 2018, 2019 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2011 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000, 2001, 2003, 2005, 2012, 2015-2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1997, 2000-2004, 2011 Free Software Foundation, Inc.  
Copyright 2014 Free Software Foundation, Inc.  
Copyright 1993-1997, 2000-2003, 2005, 2007, 2008, 2011, 2013, 2019 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000, 2006, 2008-2010, 2012 Free Software Foundation, Inc.  
Copyright 1993-1995, 2000, 2001, 2004 Free Software Foundation, Inc.  
Copyright 1993-1995, 2001, 2002, 2004 Free Software Foundation, Inc.  
Copyright 1993-1996, 1999-2002, 2011 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000-2002, 2004 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1996, 2001, 2002, 2005, 2015 Free Software Foundation, Inc.  
Copyright 1995, 1996, 2000-2003, 2006, 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2004, 2008-2011 Free Software Foundation, Inc.  
Copyright 2001-2003, 2005, 2013 Free Software Foundation, Inc.  
Copyright 1998-2010, 2012, 2013, 2018, 2020 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1995, 2001, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000-2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright 2000, 2002, 2003, 2012, 2014, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000, 2001 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000-2002, 2004, 2005, 2010, 2012 Free Software Foundation, Inc.  
Copyright 2004, 2005, 2009, 2010, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2000-2003 Free Software Foundation, Inc.  
Copyright 1996, 2000, 2001, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2012, 2016 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 1997, 2000-2002 Free Software Foundation, Inc.  
Copyright 1996, 1999-2002, 2006, 2012 Free Software Foundation, Inc.  
Copyright 2002, 2010 Free Software Foundation, Inc.  
Copyright 2013-2015, 2018 Free Software Foundation, Inc.  
Copyright 2008, 2009, 2011, 2017 Free Software Foundation, Inc.  
Copyright 2001-2003, 2007 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2004, 2005, 2009 Free Software Foundation, Inc.  
Copyright 1999, 2001, 2002, 2004 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1995, 2001-2003, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1996, 1999, 2000, 2007 Free Software Foundation, Inc.  
Copyright 1999-2003, 2005, 2006, 2008-2017 Free Software Foundation, Inc.  
Copyright 2003, 2004 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2005 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1998, 2000-2003, 2011-2013 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2000, 2001, 2005 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999, 2000, 2002, 2007-2009, 2012 Free Software Foundation, Inc.  
Copyright 2004 Free Software Foundation, Inc.  
Copyright 1996, 1998, 2000-2005, 2008, 2009 Free Software Foundation, Inc.  
Copyright 2005-2007, 2009, 2010 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2002, 2012 Free Software Foundation, Inc.  
Copyright 1996, 1997, 2000-2003 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2000, 2001, 2008, 2015 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2018 Free Software Foundation, Inc.  
Copyright 2018-2020 Free Software Foundation, Inc.  
Copyright 2011, 2018 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 2001, 2015 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2005, 2009, 2014, 2017, 2018 Free Software Foundation, Inc.  
Copyright 2001, 2008 Free Software Foundation, Inc.  
Copyright 2003 Free Software Foundation, Inc.  
Copyright 2017 Free Software Foundation, Inc.  
Copyright 1997, 1998, 2000, 2001, 2018 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2014 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 1998-2000, 2002, 2003, 2013 Free Software Foundation, Inc.  
Copyright 2013-2015 Free Software Foundation, Inc.  
Copyright 2009, 2010, 2012, 2013, 2018 Free Software Foundation, Inc.  
Copyright 2008, 2010, 2011 Free Software Foundation, Inc.  
Copyright (C) 1989, 1991 Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
Copyright 1991, 1993, 1994, 1996, 1998-2000, 2002, 2003 Free Software Foundation, Inc.  
Copyright 2000-2003, 2005-2007, 2009 Free Software Foundation, Inc.  
Copyright 1996, 2000, 2001, 2008, 2019, 2020 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2001, 2002, 2011, 2012 Free Software Foundation, Inc.  
Copyright 1996, 1999-2001, 2003 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1995, 2001, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1999-2004 Free Software Foundation, Inc.  
Copyright 1996, 1999, 2001, 2002, 2004 Free Software Foundation, Inc.  
Copyright 2001, 2003, 2003, 2005 Free Software Foundation, Inc.  
Copyright 1996-2009, 2011-2014 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002, 2009, 2010 Free Software Foundation, Inc.  
Copyright 2000-2002, 2012 Free Software Foundation, Inc.  
Copyright 2001-2004, 2017 Free Software Foundation, Inc.  
Copyright 1996, 1998, 2000-2004, 2008, 2010 Free Software Foundation, Inc.  
Copyright 1994, 1996, 1999, 2001, 2002, 2004, 2012 Free Software Foundation, Inc.  
Copyright (C) 1984, 1989-1990, 2000-2015, 2018-2020 Free Software Foundation, Inc.  
Copyright 2010-2012, 2015-2017 Free Software Foundation, Inc.  
Copyright 1991, 1993-1996, 2001, 2002, 2005, 2010, 2012 Free Software Foundation, Inc.  
Copyright 2006-2008, 2012, 2014, 2015 Free Software Foundation, Inc.  
Copyright 2000-2003, 2005, 2009, 2017 Free Software Foundation, Inc.  
Copyright 2000-2003, 2005, 2013 Free Software Foundation, Inc.  
Copyright 2012, 2015, 2016 Free Software Foundation, Inc.  
Copyright 2000, 2002 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2001, 2005, 2010, 2012 Free Software Foundation, Inc.  
Copyright 2004, 2012 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2010, 2012, 2018 Free Software Foundation, Inc.  
Copyright 2002, 2011 Free Software Foundation, Inc.  
Copyright (C) 2004-2007, 2009, 2012, 2017 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 2000-2002, 2004, 2005 Free Software Foundation, Inc.  
Copyright 2001, 2003, 2004 Free Software Foundation, Inc.  
Copyright 2013 Free Software Foundation, Inc.  
Copyright 2002, 2003, 2017, 2020 Free Software Foundation, Inc.  
Copyright 1993-1997, 1999-2002, 2005, 2016 Free Software Foundation, Inc.  
Copyright 1996, 1999 Free Software Foundation, Inc.  
Copyright 2003-2005, 2008, 2012 Free Software Foundation, Inc.  
Copyright 2011, 2012 Free Software Foundation, Inc.  
Copyright 1991-1994, 1996, 1997, 2000-2005, 2008, 2010, 2011, 2017 Free Software Foundation, Inc.  
Copyright 1996, 2000-2002, 2012 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2008 Free Software Foundation, Inc.  
Copyright 1999, 2000 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2004, 2008-2011, 2014 Free Software Foundation, Inc.  
Copyright 2006-2008, 2013 Free Software Foundation, Inc.  
Copyright 1999-2003, 2005, 2015 Free Software Foundation, Inc.  
Copyright 2001, 2002, 2015, 2018 Free Software Foundation, Inc.  
Copyright 2013, 2014 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996-1998, 2001, 2002, 2004, 2005, 2012 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1995, 2000-2002, 2015, 2018 Free Software Foundation, Inc.  
Copyright 1991, 1993-1995, 2001 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1996, 2000, 2001, 2005, 2009, 2011, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2009, 2010, 2012, 2013 Free Software Foundation, Inc.  
Copyright 1993, 1994, 1996, 1997, 2001, 2013 Free Software Foundation, Inc.  
Copyright 2005-2007, 2009, 2010, 2012, 2017 Free Software Foundation, Inc.  
Copyright 2001, 2018 Free Software Foundation, Inc.  
Copyright 2000, 2001, 2012 Free Software Foundation, Inc.  
Copyright 1993-1995, 1999-2002, 2004, 2012, 2015 Free Software Foundation, Inc.  
Copyright 2012, 2013, 2018, 2020 Free Software Foundation, Inc.  
Copyright 1996, 1998, 2000-2005, 2008, 2009, 2012 Free Software Foundation, Inc.  
Copyright 1999-2005 Free Software Foundation, Inc.  
Copyright 1999, 2000, 2002, 2005, 2012 Free Software Foundation, Inc.  
Copyright 2009, 2010, 2012, 2014 Free Software Foundation, Inc.  
Copyright 2012-2014, 2016, 2020 Free Software Foundation, Inc.  
Copyright 1999-2006, 2008-2017, 2019 Free Software Foundation, Inc.  
Copyright 2000, 2003 Free Software Foundation, Inc.  
Copyright 2013, 2017 Free Software Foundation, Inc.  
Copyright 2000-2003, 2014 Free Software Foundation, Inc.  
Copyright 1994-1996, 1999, 2001, 2002, 2004, 2012, 2015 Free Software Foundation, Inc.  
Copyright 1993-1995, 2001 Free Software Foundation, Inc.  
Copyright 1991-1994, 1996, 1997, 1999-2005, 2007-2009, 2011-2020 Free Software Foundation, Inc.  
Copyright 2015 Free Software Foundation, Inc.  
Copyright 1991, 1993, 1994, 1999-2002 Free Software Foundation, Inc.  
Copyright 2000-2003, 2008 Free Software Foundation, Inc.  
Copyright 1991, 1994, 1995, 2000, 2001, 2012 Free Software Foundation, Inc.

**License:** LGPLv3 and GPLv2

GNU LESSER GENERAL PUBLIC LICENSE  
Version 3, 29 June 2007  
  
Copyright ? 2007 Free Software Foundation, Inc. <https://fsf.org/>  
  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
  
This version of the GNU Lesser General Public License incorporates the terms and conditions of version 3 of the GNU General Public License, supplemented by the additional permissions listed below.  
  
0. Additional Definitions.  
As used herein, “this License” refers to version 3 of the GNU Lesser General Public License, and the “GNU GPL” refers to version 3 of the GNU General Public License.  
  
“The Library” refers to a covered work governed by this License, other than an Application or a Combined Work as defined below.  
  
An “Application” is any work that makes use of an interface provided by the Library, but which is not otherwise based on the Library. Defining a subclass of a class defined by the Library is deemed a mode of using an interface provided by the Library.  
  
A “Combined Work” is a work produced by combining or linking an Application with the Library. The particular version of the Library with which the Combined Work was made is also called the “Linked Version”.  
  
The “Minimal Corresponding Source” for a Combined Work means the Corresponding Source for the Combined Work, excluding any source code for portions of the Combined Work that, considered in isolation, are based on the Application, and not on the Linked Version.  
  
The “Corresponding Application Code” for a Combined Work means the object code and/or source code for the Application, including any data and utility programs needed for reproducing the Combined Work from the Application, but excluding the System Libraries of the Combined Work.  
  
1. Exception to Section 3 of the GNU GPL.  
You may convey a covered work under sections 3 and 4 of this License without being bound by section 3 of the GNU GPL.  
  
2. Conveying Modified Versions.  
If you modify a copy of the Library, and, in your modifications, a facility refers to a function or data to be supplied by an Application that uses the facility (other than as an argument passed when the facility is invoked), then you may convey a copy of the modified version:  
  
a) under this License, provided that you make a good faith effort to ensure that, in the event an Application does not supply the function or data, the facility still operates, and performs whatever part of its purpose remains meaningful, or  
b) under the GNU GPL, with none of the additional permissions of this License applicable to that copy.  
3. Object Code Incorporating Material from Library Header Files.  
The object code form of an Application may incorporate material from a header file that is part of the Library. You may convey such object code under terms of your choice, provided that, if the incorporated material is not limited to numerical parameters, data structure layouts and accessors, or small macros, inline functions and templates (ten or fewer lines in length), you do both of the following:  
  
a) Give prominent notice with each copy of the object code that the Library is used in it and that the Library and its use are covered by this License.  
b) Accompany the object code with a copy of the GNU GPL and this license document.  
4. Combined Works.  
You may convey a Combined Work under terms of your choice that, taken together, effectively do not restrict modification of the portions of the Library contained in the Combined Work and reverse engineering for debugging such modifications, if you also do each of the following:  
  
a) Give prominent notice with each copy of the Combined Work that the Library is used in it and that the Library and its use are covered by this License.  
b) Accompany the Combined Work with a copy of the GNU GPL and this license document.  
c) For a Combined Work that displays copyright notices during execution, include the copyright notice for the Library among these notices, as well as a reference directing the user to the copies of the GNU GPL and this license document.  
d) Do one of the following:  
0) Convey the Minimal Corresponding Source under the terms of this License, and the Corresponding Application Code in a form suitable for, and under terms that permit, the user to recombine or relink the Application with a modified version of the Linked Version to produce a modified Combined Work, in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.  
1) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (a) uses at run time a copy of the Library already present on the user's computer system, and (b) will operate properly with a modified version of the Library that is interface-compatible with the Linked Version.  
e) Provide Installation Information, but only if you would otherwise be required to provide such information under section 6 of the GNU GPL, and only to the extent that such information is necessary to install and execute a modified version of the Combined Work produced by recombining or relinking the Application with a modified version of the Linked Version. (If you use option 4d0, the Installation Information must accompany the Minimal Corresponding Source and Corresponding Application Code. If you use option 4d1, you must provide the Installation Information in the manner specified by section 6 of the GNU GPL for conveying Corresponding Source.)  
5. Combined Libraries.  
You may place library facilities that are a work based on the Library side by side in a single library together with other library facilities that are not Applications and are not covered by this License, and convey such a combined library under terms of your choice, if you do both of the following:  
  
a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities, conveyed under the terms of this License.  
b) Give prominent notice with the combined library that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.  
6. Revised Versions of the GNU Lesser General Public License.  
The Free Software Foundation may publish revised and/or new versions of the GNU Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.  
  
Each version is given a distinguishing version number. If the Library as you received it specifies that a certain numbered version of the GNU Lesser General Public License “or any later version” applies to it, you have the option of following the terms and conditions either of that published version or of any later version published by the Free Software Foundation. If the Library as you received it does not specify a version number of the GNU Lesser General Public License, you may choose any version of the GNU Lesser General Public License ever published by the Free Software Foundation.  
  
If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.  
  
GNU GENERAL PUBLIC LICENSE  
Version 2, June 1991  
  
Copyright (C) 1989, 1991 Free Software Foundation, Inc.  
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA  
  
Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.  
  
Preamble  
  
The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users. This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors commit to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.  
  
When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.  
  
To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.  
  
For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.  
  
We protect your rights with two steps: (1) copyright the software, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the software.  
  
Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.  
  
Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.  
  
The precise terms and conditions for copying, distribution and modification follow.  
  
TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION  
  
0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License. The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law: that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".  
Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.  
  
1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and give any other recipients of the Program a copy of this License along with the Program.  
You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.  
  
2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:  
a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.  
b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.  
c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)  
These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.  
  
Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program.  
  
In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.  
  
3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following:  
a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,  
b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange; or,  
c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b above.)  
The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.  
  
If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.  
  
4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.  
5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.  
6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.  
7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.  
If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances.  
  
It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.  
  
This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.  
  
8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.  
9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.  
Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.  
  
10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.  
NO WARRANTY  
  
11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.  
12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.  
END OF TERMS AND CONDITIONS  
  
How to Apply These Terms to Your New Programs  
  
If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.  
  
To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.  
  
<one line to give the program's name and an idea of what it does.>   
Copyright (C) <yyyy> <name of author>  
  
This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.  
  
This 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 General Public License for more details.  
  
You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.  
  
Also add information on how to contact you by electronic and paper mail.  
  
If the program is interactive, make it output a short notice like this when it starts in an interactive mode:  
  
Gnomovision version 69, Copyright (C) year name of author Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'. This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.  
  
The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.  
  
You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:  
  
Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.  
  
<signature of Ty Coon>, 1 April 1989 Ty Coon, President of Vice  
  
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.

**Written Offer**

This product contains software whose rights holders license it on the terms of the GNU General Public License, version 2 (GPLv2) and/or other open source software licenses. We will provide you and any third party with the source code of the software licensed under an open source software license if you send us a written request by mail or email to the following addresses:

foss@huawei.com

detailing the name of the product and the firmware version for which you need the source code and indicating how we can contact you.

Please note you need to make a payment before you obtain the complete Corresponding Source Code from us. For how much you will pay and how we will deliver the complete Corresponding Source Code to you, we will further discuss it by mail or email.

This offer is valid to anyone in receipt of this information.

**This offer is valid for three years from the moment we distributed the product or firmware .**