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## Contents

- 1.1 readline 5.2**
  - 1.1.1 Available under license
- 1.2 coreutils 6.9**
  - 1.2.1 Available under license
- 1.3 libnetfilter-cthelper 1.0.0**
  - 1.3.1 Available under license
- 1.4 libnetfilter-cttimeout 1.0.0**
  - 1.4.1 Available under license
- 1.5 libnfnetlink 1.0.1**
  - 1.5.1 Available under license
- 1.6 bash 3.2.57**
  - 1.6.1 Available under license
- 1.7 libmnl 1.0.4**
  - 1.7.1 Available under license
- 1.8 lzo 2.10**
  - 1.8.1 Available under license
- 1.9 kmod 26**
  - 1.9.1 Available under license
- 1.10 bzip2 1.0.8**
- 1.11 zlib 1.2.8**
  - 1.11.1 Available under license
- 1.12 ebttables 2.0.10**
  - 1.12.1 Available under license
- 1.13 tcpdump 4.1.1**
  - 1.13.1 Available under license
- 1.14 json-c 0.13.1**

- 1.14.1 Available under license
- 1.15 popt 1.16**
- 1.15.1 Available under license
- 1.16 xz 5.2.4**
- 1.16.1 Available under license
- 1.17 libpcap 1.9.1**
- 1.17.1 Available under license
- 1.18 libxml2 2.9.10**
- 1.18.1 Available under license
- 1.19 expat 2.2.9**
- 1.19.1 Available under license
- 1.20 libunistring 0.9.10**
- 1.20.1 Available under license
- 1.21 iptables 1.8.4**
- 1.21.1 Available under license
- 1.22 ncurses 6.2**
- 1.22.1 Available under license
- 1.23 attr 2.4.48**
- 1.23.1 Available under license
- 1.24 elfutils 0.178**
- 1.24.1 Available under license
- 1.25 cryptsetup 2.3.1**
- 1.25.1 Available under license
- 1.26 audit 2.8.5**
- 1.26.1 Available under license
- 1.27 libffi 3.3**
- 1.27.1 Available under license
- 1.28 libarchive 3.4.2**
- 1.28.1 Available under license
- 1.29 ethtool 5.4**
- 1.29.1 Available under license
- 1.30 glibc 2.31**
- 1.30.1 Available under license
- 1.31 libgpg-error 1.37**
- 1.31.1 Available under license
- 1.32 strace 5.5**
- 1.32.1 Available under license
- 1.33 jansson 2.13.1**
- 1.33.1 Available under license

### **1.34 nghttp2 1.40.0**

1.34.1 Available under license

### **1.35 libidn 2.3.0**

1.35.1 Available under license

### **1.36 protobuf 3.11.4**

1.36.1 Available under license

### **1.37 iproute 5.10.0**

1.37.1 Available under license

### **1.38 glib 2.62.6**

1.38.1 Available under license

### **1.39 libcap-ng 0.7.10**

1.39.1 Available under license

### **1.40 libnetfilter-queue 1.0.3**

1.40.1 Available under license

### **1.41 libgcrypt 1.8.5**

1.41.1 Available under license

### **1.42 shared-mime-info 1.1**

1.42.1 Available under license

### **1.43 tdb 1.45.7**

1.43.1 Available under license

### **1.44 bind 9.11.35**

1.44.1 Available under license

### **1.45 libsolv 0.7.10**

1.45.1 Available under license

### **1.46 mtd-utils 2.0.2**

1.46.1 Available under license

### **1.47 libnetfilter-contrack 1.4.6**

1.47.1 Available under license

### **1.48 libnsl 2.31**

1.48.1 Available under license

### **1.49 contrack-tools 1.4.6**

1.49.1 Available under license

### **1.50 zlib 1.2.11**

1.50.1 Available under license

### **1.51 libnetfilter-contrack 1.0.9**

1.51.1 Available under license

### **1.52 systemd 244**

1.52.1 Available under license

### **1.53 libsepol 3.0**

- 1.53.1 Available under license
- 1.54 selinux 3.0**
  - 1.54.1 Available under license
- 1.55 libsemanage-common 3.0**
  - 1.55.1 Available under license
- 1.56 policycoreutils 3.0**
  - 1.56.1 Available under license
- 1.57 libatomic 9.3.0**
  - 1.57.1 Available under license
- 1.58 lvm2 1.02.165**
  - 1.58.1 Available under license
- 1.59 libxcrypt 4.4.15**
  - 1.59.1 Available under license
- 1.60 libcap 2.32**
  - 1.60.1 Available under license
- 1.61 util-linux 2.35.1**
  - 1.61.1 Available under license
- 1.62 openssl 1.1.1l**
  - 1.62.1 Available under license
- 1.63 busybox 1.31.1**
  - 1.63.1 Available under license
- 1.64 e2fsprogs 1.45.7**
  - 1.64.1 Available under license
- 1.65 perl 5.30.0**
  - 1.65.1 Available under license
- 1.66 curl 7.69.1**
  - 1.66.1 Available under license
- 1.67 acl 2.2.53**
  - 1.67.1 Available under license
- 1.68 d-bus 1.12.20**
  - 1.68.1 Available under license
- 1.69 pcre 8.44**
  - 1.69.1 Available under license
- 1.70 iputils 20190709**
  - 1.70.1 Available under license
- 1.71 ppp 2.4.7**
  - 1.71.1 Available under license
- 1.72 linux-kernel 5.4.233**
  - 1.72.1 Available under license

## **1.73 dhcpcd 8.1.6**

1.73.1 Available under license

## **1.74 dnsmasq 2.81**

1.74.1 Available under license

## **1.75 opkg 0.4.2**

1.75.1 Available under license

## **1.76 pim6dd 2.2.0**

1.76.1 Available under license

## **1.77 edk2 edk2-stable202002**

1.77.1 Available under license

## **1.78 tinydtls 0.8.2**

1.78.1 Available under license

## **1.79 lib-utils android-6.0.0\_r26**

1.79.1 Available under license

# **1.1 headline 5.2**

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## 1.3 libnetfilter-cthelper 1.0.0

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```
30 mtime=1338915568.810356258
```

```
30 atime=1347878487.890522778
```

# 1.4 libnetfilter-cttimeout 1.0.0

## 1.4.1 Available under license :

30 atime=1338035511.146211132

30 ctime=1338038400.390056869

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```
<one line to give the program's name and a brief idea of what it does.>  
Copyright (C) 19yy <name of author>
```

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should show the appropriate  
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## 1.5 libnfnlink 1.0.1

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice

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## 1.6 bash 3.2.57

### 1.6.1 Available under license :

From friedman@cli.com Thu May 25 12:19:06 1995

Flags: 10

Return-Path: friedman@cli.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id MAA08685; Thu, 25 May 1995 12:19:05 -0400 (from friedman@cli.com for <chet@odin.INS.CWRU.Edu>)

Received: from cli.com (cli.com [192.31.85.1]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id MAA11299; Thu, 25 May 1995 12:19:00 -0400 (from friedman@cli.com for <chet@po.cwru.edu>)

Received: from tepui.cli.com by cli.com (4.1/SMI-4.1)

id AA27213; Thu, 25 May 95 11:18:25 CDT

Received: by tepui.cli.com (4.1) id AA16031; Thu, 25 May 95 11:18:23 CDT

Message-Id: <9505251618.AA16031@tepui.cli.com>

From: friedman@gnu.ai.mit.edu (Noah Friedman)

To: chet@po.cwru.edu

Subject: Bash scripts

Reply-To: friedman@gnu.ai.mit.edu

In-Reply-To: <chet@odin.ins.cwru.edu> Thu, 25 May 1995 11:19:59 -0400

References: <9505251519.AA06424.SM@odin.INS.CWRU.Edu>

Date: Thu, 25 May 95 11:18:21 CST

>Hi. I snagged

some of your bash functions from your home directory on

>the FSF machines (naughty, I know), and I was wondering if you'd let

>me distribute them with bash-2.0. Thanks.

Sure. I think there's a later copy in

~ftp/friedman/shell-inits/init-4.89.tar.gz. There are also some elisp and es frobs in that file.

It should serve as a pretty good example of how to get carried away. :-)

From specdt@armory.com Wed May 10 10:21:11 1995

Flags: 10

Return-Path: specdt@armory.com

Received: from po.cwru.edu (root@po.CWRU.Edu [129.22.4.2]) by odin.INS.CWRU.Edu with ESMTP (8.6.10+cwru/CWRU-2.1-ins)

id KAA22876; Wed, 10 May 1995 10:21:10 -0400 (from specdt@armory.com for <chet@odin.INS.CWRU.Edu>)

Received: from deepthought.armory.com (mmdf@deepthought.armory.com [192.122.209.42]) by po.cwru.edu with SMTP (8.6.10+cwru/CWRU-2.3)

id BAA16354; Wed, 10 May 1995 01:33:22 -0400 (from spcedt@armory.com for <chet@po.cwru.edu>)  
From: John DuBois <spcedt@armory.com>  
Date: Tue, 9 May 1995 22:33:12 -0700  
In-Reply-To: Chet Ramey <chet@odin.ins.cwru.edu>  
"ksh scripts" (May 9, 1:36pm)  
X-Www: http://www.armory.com/~spcedt/  
X-Mailer: Mail User's Shell (7.2.5 10/14/92)  
To: chet@po.cwru.edu  
Subject: Re: ksh scripts  
Message-ID: <9505092233.aa13001@deephought.armory.com>

Sure. The canonical versions are available on ftp.armory.com; you might want to pick up the latest versions before modifying them.

John

On May 9, 1:36pm, Chet Ramey wrote:

```
} Subject: ksh scripts
} From odin.ins.cwru.edu!chet Tue May 9 10:39:51 1995
} Received: from odin.INS.CWRU.Edu by deepthought.armory.com id aa22336;
} 9 May 95 10:39 PDT
} Received: (chet@localhost) by odin.INS.CWRU.Edu (8.6.10+cwru/CWRU-2.1-ins)
} id NAA20487; Tue, 9 May 1995 13:39:24 -0400 (from chet)
} Date: Tue, 9 May 1995 13:36:54 -0400
} From: Chet Ramey <chet@odin.ins.cwru.edu>
} To: john@armory.com
} Subject: ksh scripts
} Cc: chet@odin.ins.cwru.edu
} Reply-To: chet@po.cwru.edu
} Message-ID: <9505091736.AA20411.SM@odin.INS.CWRU.Edu>
} Read-Receipt-To: chet@po.CWRU.Edu
} MIME-Version: 1.0
} Content-Type: text/plain; charset=us-ascii
} Status: OR
}
} Hi. I'm the maintainer of bash (the GNU `Bourne Again shell') for
} the FSF.
}
} I picked up a tar file of ksh scripts you wrote from an anon FTP site
} a while back. I'd like your permission to include modified versions
} of some of them in
} the next major bash distribution (with proper credit
} given, of course). Is it OK if I do that?
}
} Chet Ramey
}
} --
```

```
} ``The lyf so short, the craft so long to lerne." - Chaucer
}
} Chet Ramey, Case Western Reserve University Internet: chet@po.CWRU.Edu
}-- End of excerpt from Chet Ramey
```

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@index FDL, GNU Free Documentation License
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@c ispell-local-pdict: "ispell-dict"
@c End:
From mikel@ora.com Tue Aug 1 12:13:20 1995
Flags: 10
Return-Path: mikel@ora.com
Received: from ruby.ora.com (ruby.ora.com [198.112.208.25]) by odin.INS.CWRU.Edu with ESMTP
(8.6.12+cwru/CWRU-2.1-ins)
id MAA01565; Tue, 1 Aug 1995 12:13:18 -0400 (from mikel@ora.com for <chet@odin.INS.CWRU.Edu>)
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12:07:51 -0400
Received: by los.ora.com (4.1/Spike-2.1)
id AA00672; Tue, 1 Aug 95 08:57:32 EDT
Date: Tue, 1 Aug 95 08:57:32 EDT
From: mikel@ora.com (Michael Loukides)
Message-Id: <9508011257.AA00672@los.ora.com>
Subject: Re: Ksh debugger from Rosenblatt's book [for bash]
To: Chet Ramey <chet@odin.INS.CWRU.Edu>
Cc: cmarie@ora.com, cam@iinet.com.au, brosenblatt@tm.com
In-Reply-To: Chet Ramey <chet@odin.INS.CWRU.Edu>, Mon, 31 Jul 1995 16:22:48 -0400
```

I've modified a (modified) version of Bill Rosenblatt's ksh debugger to work with bash-2.0. Does ORA have any problem with me distributing

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```
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it  
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```
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## 1.9 kmod 26

## 1.9.1 Available under license :

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## 1.11 zlib 1.2.8

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```
/* zlib.h -- interface of the 'zlib' general purpose compression library
   version 1.2.11, January 15th, 2017
```

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```
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```
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```

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-- vile: txtmode file-encoding=utf-8

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-- \$Id: COPYING,v 1.9 2020/02/08 13:34:12 tom Exp \$  
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-- vile: txtmode file-encoding=utf-8

Upstream source <https://invisible-island.net/ncurses/ncurses-examples.html>

Current ncurses maintainer: Thomas Dickey <[dickey@invisible-island.net](mailto:dickey@invisible-island.net)>

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Files: \*

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## 1.23 attr 2.4.48

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Version 2.1, February 1999

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## 1.25 cryptsetup 2.3.1

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```

```
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Ty Coon, President of Vice
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# 1.30 glibc 2.31

## 1.30.1 Available under license :

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@center Version 2.1, February 1999

@c This file is intended to be included within another document,

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@subheading END OF TERMS AND CONDITIONS

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## 1.31 libgpg-error 1.37

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## 1.32 strace 5.5

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## 1.36 protobuf 3.11.4

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This file contains a list of people who have made large contributions to the public version of Protocol Buffers.

Original Protocol Buffers design and implementation:

Sanjay Ghemawat <sanjay@google.com>

Jeff Dean <jeff@google.com>

Daniel Dulitz <daniel@google.com>

Craig Silverstein

Paul Haahr <haahr@google.com>

Corey Anderson <corin@google.com>

(and many others)

Proto2 C++ and Java primary author:

Kenton Varda <kenton@google.com>

Proto2 Python primary authors:

Will Robinson <robinson@google.com>

Petar Petrov <petar@google.com>

Java Nano primary authors:

Brian Duff <bduff@google.com>

Tom Chao <chaot@google.com>

Max Cai <maxtroy@google.com>

Ulas Kirazci <ulas@google.com>

Large code contributions:

Jason Hsueh <jasonh@google.com>  
Joseph Schorr <jschorr@google.com>  
Wenbo Zhu <wenboz@google.com>

Large quantity of code reviews:

Scott Bruce <sbruce@google.com>  
Frank Yellin  
Neal Norwitz <nnorwitz@google.com>  
Jeffrey Yasskin <jyasskin@google.com>  
Ambrose  
Feinstein <ambrose@google.com>

Documentation:

Lisa Carey <lcarey@google.com>

Maven packaging:

Gregory Kick <gak@google.com>

Patch contributors:

Kevin Ko <kevin.s.ko@gmail.com>  
\* Small patch to handle trailing slashes in --proto\_path flag.

Johan Euphrosine <propy@aminche.com>  
\* Small patch to fix Python CallMethod().

Ulrich Kunitz <kune@deine-taler.de>  
\* Small optimizations to Python serialization.

Leandro Lucarella <llucax@gmail.com>  
\* VI syntax highlighting tweaks.  
\* Fix compiler to not make output executable.

Dilip Joseph <dilip.antony.joseph@gmail.com>  
\* Heuristic detection of sub-messages when printing unknown fields in text format.

Brian Atkinson <nairb774@gmail.com>  
\* Added @Override annotation to generated Java code where appropriate.

Vincent Choinire <Choiniere.Vincent@hydro.qc.ca>  
\* Tru64 support.

Monty Taylor <monty.taylor@gmail.com>  
\* Solaris 10 + Sun Studio fixes.

Alek Storm <alek.storm@gmail.com>  
  
\* Slicing support for repeated scalar fields for the Python API.

Oleg Smolsky <oleg.smolsky@gmail.com>  
\* MS Visual Studio error format option.  
\* Detect unordered\_map in stl\_hash.m4.

Brian Olson <brianolson@google.com>  
\* gzip/zlib I/O support.

Michael Poole <mdpoole@troilus.org>  
\* Fixed warnings about generated constructors not explicitly initializing

all fields (only present with certain compiler settings).

- \* Added generation of field number constants.

Wink Saville <wink@google.com>

- \* Fixed initialization ordering problem in logging code.

Will Pierce <willp@nuclei.com>

- \* Small patch improving performance of in Python serialization.

Alexandre Vassalotti <alexandre@peadrop.com>

- \* Emacs mode for Protocol Buffers (editors/protobuf-mode.el).

Scott Stafford <scott.stafford@gmail.com>

- \* Added Swap(), SwapElements(), and RemoveLast() to Reflection interface.

Alexander Melnikov <alm@sibmail.ru>

- \* HPUX support.

Oliver Jowett <oliver.jowett@gmail.com>

- \* Detect whether zlib is new enough in configure script.
- \* Fixes for Solaris 10 32/64-bit confusion.

Evan Jones <evanj@mit.edu>

- \* Optimize Java serialization code when writing a small message to a stream.
- \* Optimize Java serialization of strings so that UTF-8 encoding happens only once per string per serialization call.
- \* Clean up some Java warnings.
- \* Fix bug with permanent callbacks that delete themselves when run.

Michael Kucharski <m.kucharski@gmail.com>

- \* Added CodedInputStream.getTotalBytesRead().

Kacper Kowalik <xarthisius.kk@gmail.com>

- \* Fixed m4/acx\_pthread.m4 problem for some Linux distributions.

William Orr <will@worrbase.com>

- \* Fixed detection of sched\_yield on Solaris.
- \* Added atomicops for Solaris

Andrew Paprocki <andrew@ishiboo.com>

- \* Fixed minor IBM xLC compiler build issues
- \* Added atomicops for AIX (POWER)

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```
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```

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```
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```

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<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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## 1.38 glib 2.62.6

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<signature of Ty Coon>, 1 April 1990  
Ty Coon, President of Vice

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## 1.39 libcap-ng 0.7.10

### 1.39.1 Available under license :

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Version 2.1, February 1999

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Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

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the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, 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

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and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the

application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

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Ty Coon, President of Vice

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For example, if you distribute copies of the library,

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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```

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- cipher/cipher-ocb.c

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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This is the Debian GNU/Linux prepackaged version of the static EXT2 file system consistency checker (e2fsck.static). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Theodore Ts'o  
23-June-2007

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```
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```
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```

```
<signature of Ty Coon>, 1 April 1989
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```

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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#

# This is a Makefile stub which handles the creation of BSD shared  
# libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

```

# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#

all:: image

real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image: $(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'~/$(BSD_LIB) $(BSD_LIB)`)

install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

```

This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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-->

<!-- Generate ISC copyright comments from Docbook copyright metadata. -->

<xsl:stylesheet version="1.0"

xmlns:xsl="http://www.w3.org/1999/XSL/Transform"

xmlns:xi="http://www.w3.org/2001/XInclude"

xmlns:db="http://docbook.org/ns/docbook">

<xsl:template name="isc.copyright.format">

<xsl:param name="text"/>

<xsl:value-of select="\$isc.copyright.leader"/>

<xsl:value-of select="normalize-space(substring-before(\$text, '&#10;'))"/>

```

<xsl:text>#10;</xsl:text>
<xsl:variable name="rest" select="substring-after($text, '#10;')"/>
<xsl:if test="translate($rest, '#9;#32;', '')">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text" select="$rest"/>
  </xsl:call-template>
</xsl:if>
</xsl:template>

<xsl:variable name="isc.copyright.text">
  <xsl:text>
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  </xsl:text>
</xsl:variable>

<xsl:variable name="isc.copyright">
  <xsl:call-template name="isc.copyright.format">
    <xsl:with-param name="text">
      <xsl:for-each select="db:book/db:info/db:copyright | db:refentry/db:docinfo/db:copyright">
        <xsl:text>Copyright (C) </xsl:text>
        <xsl:call-template name="copyright.years">
          <xsl:with-param name="years" select="db:year"/>
        </xsl:call-template>
        <xsl:text> </xsl:text>
        <xsl:value-of select="db:holder"/>
        <xsl:value-of select="$isc.copyright.breakline"/>
        <xsl:text>#10;</xsl:text>
      </xsl:for-each>
      <xsl:value-of
        select="$isc.copyright.text"/>
    </xsl:with-param>
  </xsl:call-template>
</xsl:variable>
</xsl:stylesheet>

<!--
- Local variables:
- mode: sgml
- End:
-->
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## 1.46 mtd-utils 2.0.2

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```
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```
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```

```
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```

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```
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```

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```
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```

```
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## 1.48 libnsl 2.31

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```
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```

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```
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```

```
<signature of Ty Coon>, 1 April 1989  
Ty Coon, President of Vice
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/\* zlib.h -- interface of the 'zlib' general purpose compression library  
version 1.2.11, January 15th, 2017

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\*/

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```

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```
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```

```
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## 1.52 systemd 244

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## 1.53 libsepol 3.0

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Version 2.1, February 1999

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## 1.54 selinux 3.0

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```

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```
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## 1.55 libsemanage-common 3.0

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Any executables

containing that work also fall under Section 6,

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## 1.56 polycoreutils 3.0

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Julian Seward, jseward@bzip.org  
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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@c man end

```
=====
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DRuntime: Runtime Library for the D Programming Language

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Version 2, June 1991

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performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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## 1.59 libxcrypt 4.4.15

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## 1.60 libcap 2.32

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## 1.61 util-linux 2.35.1

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```
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```
#!/usr/bin/env bash
```

```
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
```

```
# This script will read the license file into memory, strip out the copyright, and then
```

```
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
```

```
set -e
```

```
calculate_md5_sum() {
```

```
  local FILE="$1"
```

```
  # Read the contents of the file into a variable
```

```
  local raw_license_text=$(<"$FILE")
```

```
  # Convert to lowercase
```

```
  local lowercase_license_text="{raw_license_text,,}"
```

```
  # Remove anything before the beginning of the license
```

```
  local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")
```

```
  # Replace line breaks (Windows or Linux) with a single space
```

```
  local replaced_linebreaks=$(tr "\r\n" ' ' <<< "$stripped_license_text")
```

```
  # Replace multiple spaces with a single space
```

```
  local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")
```

```
  # Strip away any non-printable, non-whitespace characters
```

```
  local clean_unprintable_license_text=$(tr
```

```
-cd '[:print:][:space:]' <<< "$normalized_license_text")
```

```
  # Remove punctuation and special characters
```

```
  local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')
```

```
  # Calculate the MD5 sum of the cleaned license text
```

```
  local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')
```

```
  # Output the MD5 sum
```

```
  echo "$MD5SUM"
```

```
}
```

```
# Check if the FILE argument is provided
if [ -z "$1" ]; then
    echo "Please provide a FILE as an argument."
    exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
```

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Version 3, 29 June 2007

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## 1.62 openssl 1.1.1l

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```
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```

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```
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```

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## 1.63 busybox 1.31.1

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```

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## 1.64 e2fsprogs 1.45.7

### 1.64.1 Available under license :

This package was added to the e2fsprogs debian source package by Theodore Ts'o <[tytso@mit.edu](mailto:tytso@mit.edu)> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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#

# This is a Makefile stub which handles the creation of BSD shared # libraries.

#

# In order to use this stub, the following makefile variables must be defined.

#

# BSDLIB\_VERSION = 1.0

# BSDLIB\_IMAGE = libce

# BSDLIB\_MYDIR = et

# BSDLIB\_INSTALL\_DIR = \$(SHLIBDIR)

#

all:: image



```
real-subdirs:: Makefile
@echo " MKDIR pic"
@mkdir -p pic
```

```
BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic
```

```
image: $(BSD_LIB)
```

```
$(BSD_LIB): $(OBS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) \
`echo $(my_dir) | sed -e 's;lib/;;'/'$(BSD_LIB) $(BSD_LIB))
```

```
install-shlibs install:: $(BSD_LIB)
@echo " INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \
$(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)
```

```
install-strip: install
```

```
install-shlibs-strip:: install-shlibs
```

```
uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
```

```
clean::
$(RM)
-rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)
```

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Index: tdbsa/tdb.c

=====  
--- tdbsa.orig/tdb.c

+++ tdbsa/tdb.c

@@ -4,11 +4,11 @@ Rev: 23371

Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)

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- 
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That's all there is to it!

This is the Debian GNU/Linux prepackaged version of the EXT2 file  
system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were  
written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

Sources were obtained from <http://sourceforge.net/projects/e2fsprogs>

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:  
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## 1.65 perl 5.30.0

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## 1.68 d-bus 1.12.20

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Written by: Philip Hazel  
Email local part: ph10  
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/\* nicstar.c v0.22 Jawaid Bazyar (bazyar@hypermall.com)

\* nicstar.c, M. Welsh (matt.welsh@cl.cam.ac.uk)

\*

\* Hacked October, 1997 by Jawaid Bazyar, Interlink Advertising Services Inc.

\* <http://www.hypermall.com/>

\* 10/1/97 - commented out CFG\_PHYIE bit - we don't care when the PHY

\* interrupts us (except possibly for removal/insertion of the cable?)

\* 10/4/97 - began heavy inline documentation of the code. Corrected typos

\* and spelling mistakes.

\* 10/5/97 - added code to handle PHY interrupts, disable PHY on

\* loss of link, and correctly re-enable PHY when link is

\* re-established. (put back CFG\_PHYIE)

\*

\* Modified to work with the IDT7721 nicstar -- AAL5 (tested) only.

\*

\* R. D. Rechenmacher <ron@fnal.gov>, Aug. 6, 1997

\*

\* Linux driver for the IDT77201 NICStAR PCI ATM controller.

\* PHY component is expected to be 155 Mbps S/UNI-Lite or IDT 77155;

\* see init\_nicstar() for PHY initialization to change this. This driver

\* expects the Linux ATM stack to support scatter-gather

lists

\* (skb->atm.iovcnt != 0) for Rx skb's passed to vcc->push.

\*

\* Implementing minimal-copy of received data:

\* IDT always receives data into a small buffer, then large buffers

\* as needed. This means that data must always be copied to create

\* the linear buffer needed by most non-ATM protocol stacks (e.g. IP)

\* Fix is simple: make large buffers large enough to hold entire

\* SDU, and leave <small\_buffer\_data> bytes empty at the start. Then

\* copy small buffer contents to head of large buffer.

\* Trick is to avoid fragmenting Linux, due to need for a lot of large

\* buffers. This is done by 2 things:

\* 1) skb->destructor / skb->atm.recycle\_buffer

\* combined, allow nicstar\_free\_rx\_skb to be called to

\* recycle large data buffers

\* 2) skb\_clone of received buffers

\* See nicstar\_free\_rx\_skb and linearize\_buffer for implementation

\* details.

\*

\*

\*

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\*

\* M. Welsh, 6 July 1996

\*

\*

\*/

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It was originally downloaded from <http://netweb.usc.edu/pim/pimd/>

The current versions are hosted at GitHub:

<http://github.com/troglobit/pimd>

Current Upstream Maintainers and Authors:

\* Joachim Nilsson <troglobit@vmlinux.org>

Original Upstream Authors:

\* Ahmed Helmy <ahelmy@catarina.usc.edu>

\* Rusty Eddy <eddy@isi.edu>

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## 1.77 edk2 edk2-stable202002

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=== Start of sample patch email message ===

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Subject: [Repository/Branch PATCH] Module: Brief-single-line-summary

Full-commit-message

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Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [Repository/Branch PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

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-----

Contributions.txt: TianoCore Contribution Agreement 1.0

-----

=====  
= Code Contributions =  
=====

To make a contribution to a TianoCore project, follow these steps.



1. Create a change description in the format specified below to use in the source control commit log.
2. Your commit message must include your "Signed-off-by" signature, and "Contributed-under" message.
3. Your "Contributed-under" message explicitly states that the contribution is made under the terms of the specified contribution agreement. Your "Contributed-under" message must include the name of contribution agreement and version. For example: Contributed-under: TianoCore Contribution Agreement 1.0  
The "TianoCore Contribution Agreement" is included below in this document.
4. Submit your code to the TianoCore project using the process that the project documents on its web page. If the process is not documented, then submit the code on development email list for the project.
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=====  
= Change Description / Commit Message / Patch Email =  
=====

Your change description should use the standard format for a commit message, and must include your "Signed-off-by" signature and the "Contributed-under" message.

== Sample Change Description / Commit Message =

=== Start of sample patch email message ===

From: Contributor Name <contributor@example.com>  
Subject: [PATCH] CodeModule: Brief-single-line-summary

Full-commit-message

Contributed-under:  
TianoCore Contribution Agreement 1.0  
Signed-off-by: Contributor Name <contributor@example.com>  
---

An extra message for the patch email which will not be considered part of the commit message can be added here.

Patch content inline or attached

==== End of sample patch email message ====

==== Notes for sample patch email ====

- \* The first line of commit message is taken from the email's subject line following [PATCH]. The remaining portion of the commit message is the email's content until the '---' line.
- \* git format-patch is one way to create this format

==== Definitions for sample patch email ====

- \* "CodeModule" is a short identifier for the affected code. For example MdePkg, or MdeModulePkg UsbBusDxe.
- \* "Brief-single-line-summary" is a short summary of the change.
- \* The entire first line should be less than ~70 characters.
- \* "Full-commit-message" a verbose multiple line comment describing the change.

Each line should be less than ~70 characters.

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## 1.78 tinydtls 0.8.2

### 1.78.1 Available under license :

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```
/*!
 * jQuery JavaScript Library v1.7.1
 * http://jquery.com/
 *
 * Copyright 2011, John Resig
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 *
 * Includes Sizzle.js
 * http://sizzlejs.com/
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 *
 * Date: Mon Nov 21 21:11:03 2011 -0500
 */
/*!
 * Sizzle CSS Selector Engine
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 */
PowerTip - v1.2.0 - 2013-04-03
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```

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\*/

Found in path(s):

\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/jquery.js

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/\* dtls -- a very basic DTLS implementation

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\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/session.h

\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/ccm.c

\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/session.c

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/\* debug.c -- debug utilities

\*

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/\* t\_list -- tinydtls lists

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```
/* We define list structures and utility functions to be compatible
* with Contiki list structures. The Contiki list API is part of the
* Contiki operating system, and therefore the following licensing
* terms apply (taken from contiki/core/lib/list.h):
*
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*
* This file is part of the Contiki operating system.
*
* Author: Adam Dunkels <adam@sics.se>
*
* $ Id: list.h,v 1.5 2010/09/13 13:31:00 adamdunkels Exp $
*/
```

Found in path(s):

```
*/opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/t_list.h
```

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```
/*
```

```
* FILE: sha2.c
```

```
* AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/
```

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\*  
\* \$Id: sha2.c,v 1.1 2001/11/08 00:01:51 adg Exp adg \$  
\*/

Found in path(s):

\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/sha2/sha2.c  
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/\*  
\* FILE: sha2.h  
\* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>  
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*
* $Id: sha2.h,v 1.1 2001/11/08 00:02:01 adg Exp adg $
*/

```

Found in path(s):

```

* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/sha2/sha2.h
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```

```

<div class="line"><a name="l00006"></a><span class="lineno"> 6</span>&#160;<span class="comment"> *
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<div class="line"><a name="l00012"></a><span class="lineno"> 12</span>&#160;<span class="comment"> *
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* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/contiki-
config_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-
0.8.2/doc/html/dtls_8c_source.html
*
  /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-
0.8.2/doc/html/crypto_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-
0.8.2/doc/html/dtls_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-
0.8.2/doc/html/crypto_8c_source.html

```

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```
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```
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```

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```
/*
* FILE: sha2prog.c
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\*  
\* \$Id: sha2prog.c,v 1.1 2001/11/08 00:02:11 adg Exp adg \$  
\*/

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/\* tinydtls -- a very basic DTLS implementation

\*

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\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/tinydtls.h

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\*

\* This implementation is based in part on the paper Implementation of an

\* Elliptic Curve Cryptosystem on an 8-bit Microcontroller [0] by

\* Chris K Cockrum <ckc@cockrum.net>.

\*

\* [0]: [http://cockrum.net/Implementation\\_of\\_ECC\\_on\\_an\\_8-bit\\_microcontroller.pdf](http://cockrum.net/Implementation_of_ECC_on_an_8-bit_microcontroller.pdf)

\*

\* This is a efficient ECC implementation on the secp256r1 curve for 32 Bit CPU

\* architectures. It provides basic operations on the secp256r1 curve and support

\* for ECDH and ECDSA.

\*/

Found in path(s):

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/ecc/ecc.c
*
/opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/ecc/test_helper.c
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/ecc/ecc.h
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/ecc/test_helper.h
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/ecc/testfield.c
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/ecc/testecc.c
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```

```
/* dtls -- a very basic DTLS implementation
```

```
*
```

```
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```

```
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```
*/
```

```
/**
```

```
* @mainpage
```

```
*
```

```
* @author Olaf Bergmann, TZI Uni Bremen
```

```
*
```

```
* This library provides a very simple datagram server with DTLS
```

```
* support. It is designed to support session multiplexing in
```

```
* single-threaded applications and thus targets specifically on
```

```
* embedded systems.
```

```
*
```

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\*

\* @subsection uthash UTHash

\*

\* This library uses <http://uthash.sourceforge.net/>uthash</a> to manage its peers (not used for Contiki). @b uthash uses the <b>BSD revised license</b>, see <http://uthash.sourceforge.net/license.html></a>.

\*

\* @subsection sha256 Aaron D. Gifford's SHA256 Implementation

\*

\* tinyDTLS provides HMAC-SHA256 with BSD-licensed code from Aaron D. Gifford, see <http://www.aarongifford.com/>>www.aarongifford.com</a>.

\*

\* @subsection aes Rijndael Implementation From OpenBSD

\*

\* The AES implementation is taken from rijndael.{c,h} contained in the crypto sub-system of the OpenBSD operating system. It is copyright by Vincent Rijmen, \* Antoon Bosselaers and Paulo Barreto. See <http://www.openbsd.org/cgi-bin/cvsweb/src/sys/crypto/rijndael.c>>rijndael.c</a> for License info.

\*

\* @section download Getting the Files

\*

\* You can get the sources either from the <http://sourceforge.net/projects/tinydtls/files>>downloads</a> section or through git from the <http://sourceforge.net/projects/tinydtls/develop>>project develop page</a>.

\*

\* @section config Configuration

\*

\* Use @c configure to set up everything for a successful build. For Contiki, use the option @c --with-contiki.

\*

\* @section build Building

\*

\* After configuration, just type

\* @code

make

\* @endcode

\* optionally followed by

\* @code

make install

\* @endcode

\* The Contiki version is integrated with the Contiki build system, hence you do not need to invoke @c make explicitly. Just add @c tinydtls to the variable @c APPS in your @c Makefile.

\*

\* @addtogroup dtls\_usage DTLS Usage  
 \*  
 \* @section dtls\_server\_example DTLS Server Example  
 \*  
 \* This section shows how to use the DTLS library functions to setup a  
 \* simple secure UDP echo server. The application is responsible for the  
 \* entire network communication and thus will look like a usual UDP  
 \* server with socket creation and binding and a typical select-loop as  
 \* shown below. The minimum configuration required for DTLS is the  
 \* creation of the dtls\_context\_t using dtls\_new\_context(), and a callback  
 \* for sending data. Received  
 packets are read by the application and  
 \* passed to dtls\_handle\_message() as shown in @ref dtls\_read\_cb.  
 \* For any useful communication to happen, read and write call backs  
 \* and a key management function should be registered as well.

\* @code

```
dtls_context_t *the_context = NULL;
int fd, result;
```

```
static dtls_handler_t cb = {
    .write = send_to_peer,
    .read = read_from_peer,
    .event = NULL,
    .get_psk_key = get_psk_key
};
```

```
fd = socket(...);
if (fd < 0 || bind(fd, ...) < 0)
    exit(-1);
```

```
the_context = dtls_new_context(&fd);
dtls_set_handler(the_context, &cb);
```

```
while (1) {
    ...initialize fd_set rfd and timeout ...
    result = select(fd+1, &rfd, NULL, 0, NULL);
```

```
    if (FD_ISSET(fd, &rfd))
        dtls_handle_read(the_context);
}
```

```
dtls_free_context(the_context);
```

\* @endcode

\*

\* @subsection dtls\_read\_cb The Read Callback

\*

\* The DTLS library expects received raw data to be passed to

```

* dtls_handle_message(). The application is responsible for
* filling
a session_t structure with the address data of the
* remote peer as illustrated by the following example:
*
* @code
int dtls_handle_read(struct dtls_context_t *ctx) {
int *fd;
session_t session;
static uint8 buf[DTLS_MAX_BUF];
int len;

fd = dtls_get_app_data(ctx);

assert(fd);

session.size = sizeof(session.addr);
len = recvfrom(*fd, buf, sizeof(buf), 0, &session.addr.sa, &session.size);

return len < 0 ? len : dtls_handle_message(ctx, &session, buf, len);
}
* @endcode
*
* Once a new DTLS session was established and DTLS ApplicationData has been
* received, the DTLS server invokes the read callback with the MAC-verified
* cleartext data as its argument. A read callback for a simple echo server
* could look like this:
* @code
int read_from_peer(struct dtls_context_t *ctx, session_t *session, uint8 *data, size_t len) {
return dtls_write(ctx, session, data, len);
}
* @endcode
*
* @subsection dtls_send_cb The Send Callback
*
* The callback
function send_to_peer() is called whenever data must be
* sent over the network. Here, the sendto() system call is used to
* transmit data within the given session. The socket descriptor required
* by sendto() has been registered as application data when the DTLS context
* was created with dtls_new_context().
* Note that it is on the application to buffer the data when it cannot be
* sent at the time this callback is invoked. The following example thus
* is incomplete as it would have to deal with EAGAIN somehow.
* @code
int send_to_peer(struct dtls_context_t *ctx, session_t *session, uint8 *data, size_t len) {
int fd = *(int *)dtls_get_app_data(ctx);
return sendto(fd, data, len, MSG_DONTWAIT, &session->addr.sa, session->size);

```

```

}
* @endcode
*
* @subsection dtls_get_psk_info The Key Storage
*
* When a new DTLS session is created, the library must ask the application
* for keying material. To do so, it invokes the registered call-back function
* get_psk_info() with
the current context and session information as parameter.
* When the call-back function is invoked with the parameter @p type set to
* @c DTLS_PSK_IDENTITY, the result parameter @p result must be filled with
* the psk_identity_hint in case of a server, or the actual psk_identity in
* case of a client. When @p type is @c DTLS_PSK_KEY, the result parameter
* must be filled with a key for the given identity @p id. The function must
* return the number of bytes written to @p result which must not exceed
* @p result_length.
* In case of an error, the function must return a negative value that
* corresponds to a valid error code defined in alert.h.
*
* @code
int get_psk_info(struct dtls_context_t *ctx UNUSED_PARAM,
                const session_t *session UNUSED_PARAM,
                dtls_credentials_type_t type,
                const unsigned char *id, size_t id_len,
                unsigned char *result, size_t result_length) {

switch (type) {
case DTLS_PSK_IDENTITY:
if (result_length < psk_id_length) {
dtls_warn("cannot set psk_identity -- buffer too small\n");
return dtls_alert_fatal_create(DTLS_ALERT_INTERNAL_ERROR);
}

memcpy(result, psk_id, psk_id_length);
return psk_id_length;
case DTLS_PSK_KEY:
if (id_len != psk_id_length || memcmp(psk_id, id, id_len) != 0) {
dtls_warn("PSK for unknown id requested, exiting\n");
return dtls_alert_fatal_create(DTLS_ALERT_ILLEGAL_PARAMETER);
} else if (result_length < psk_key_length) {
dtls_warn("cannot set psk -- buffer too small\n");
return dtls_alert_fatal_create(DTLS_ALERT_INTERNAL_ERROR);
}

memcpy(result, psk_key, psk_key_length);
return psk_key_length;
default:
dtls_warn("unsupported request type: %d\n", type);

```

```

}

return dtls_alert_fatal_create(DTLS_ALERT_INTERNAL_ERROR);
}
* @endcode
*
* @subsection dtls_events The Event Notifier
*
* Applications that want to be notified whenever the status of a DTLS session
* has changed can register an event handling function
* with the field @c event
* in the dtls_handler_t structure (see \ref dtls_server_example). The call-back
* function is called for alert messages and internal state changes. For alert
* messages, the argument @p level will be set to a value greater than zero, and
* @p code will indicate the notification code. For internal events, @p level
* is @c 0, and @p code a value greater than @c 255.
*
* Internal events are DTLS_EVENT_CONNECTED, @c DTLS_EVENT_CONNECT, and
* @c DTLS_EVENT_RENEGOTIATE.
*
* @code
int handle_event(struct dtls_context_t *ctx, session_t *session,
                 dtls_alert_level_t level, unsigned short code) {
    ... do something with event ...
    return 0;
}
* @endcode
*
* @section dtls_client_example DTLS Client Example
*
* A DTLS client is constructed like a server but needs to actively setup
* a new session by calling dtls_connect() at some point. As this function
* usually returns before the new DTLS channel is established, the application
* must register an event handler and wait for @c DTLS_EVENT_CONNECT before
* it can send data over the DTLS channel.
*
*/

```

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\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/dtls.h

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\*

\*/

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\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/examples/contiki/dtls-client.c  
 \* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/examples/contiki/dtls-server.c

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/\*\*

\* rijndael-alg-fst.c  
 \*  
 \* @version 3.0 (December 2000)  
 \*  
 \* Optimised ANSI C code for the Rijndael cipher (now AES)  
 \*  
 \* @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>  
 \* @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>  
 \* @author Paulo Barreto <paulo.barreto@terra.com.br>

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\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/aes/rijndael.c  
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/\* alert.h -- DTLS alert protocol

\*

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```
<div class="line"><a name="l00007"></a><span class="lineno"> 7</span>&#160;<span class="comment"> *
Permission is hereby granted, free of charge, to any person</span></div>
<div class="line"><a name="l00013"></a><span class="lineno"> 13</span>&#160;<span class="comment"> *
furnished to do so, subject to the following conditions:</span></div>
<div class="line"><a name="l00015"></a><span class="lineno"> 15</span>&#160;<span class="comment"> *
The above copyright notice and this permission notice shall be</span></div>
<div class="line"><a name="l00016"></a><span class="lineno"> 16</span>&#160;<span class="comment"> *
included in all copies or substantial portions of the Software.</span></div>
```

Found in path(s):

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-
0.8.2/doc/html/tinydtls_8h_source.html
```

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```
/**
 * rijndael-alg-fst.h
 *
 * @version 3.0 (December 2000)
 *
 * Optimised ANSI C code for the Rijndael cipher (now AES)
 *
 * @author Vincent Rijmen <vincent.rijmen@esat.kuleuven.ac.be>
 * @author Antoon Bosselaers <antoon.bosselaers@esat.kuleuven.ac.be>
 * @author Paulo Barreto <paulo.barreto@terra.com.br>
 *
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 * 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.
 */
```

Found in path(s):

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/aes/rijndael.h
```

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VERSION:



This is version 1.0 RELEASE

While this is my "release" version, due to lack of additional official test vectors against which to verify this implementation's correctness, beware that there may be implementation bugs. Also, it has not yet been tested on very many other architectures, big-endian machines in particular.

#### LICENSE:

This implementation is released freely under an open-source BSD license which appears at the top of each source code file.

#### WHAT IT IS:

The files sha2.h and sha2.c implement the SHA-256, SHA-384, and SHA-512 hash algorithms as described in the PDF document found at the following web address:

<http://csrc.nist.gov/cryptval/shs/sha256-384-512.pdf>

The interface is similar to the interface to SHA-1 found in the OpenSSL library.

The file sha2prog.c is a simple program that accepts input from either STDIN or reads one or more files specified on the command line, and then generates the specified hash (either SHA-256, SHA-384, SHA-512, or any combination thereof, including all three at once).

#### LIMITATIONS:

This implementation has several limitations:

- \* Input data is only accepted in octet-length increments. No sub-byte data is handled. The NIST document describes how to handle sub-byte input data, but for ease of implementation this version will only accept message data in multiples of bytes.
- \* This implementation utilizes 64-bit integer data types. If your system and compiler does not have a 64-bit integer data type, this implementation will not work.
- \* Because of the use of 64-bit operations, many 32-bit architectures that do have 64-bit data types but do operations most efficiently on 32-bit words, this implementation may be slower than an implementation designed to use only 32-bit words (emulating the

64-bit operations).

- \* On platforms with 128-bit integer data types, the SHA-384 and SHA-512 bit counters used by this implementation might be better off using the 128-bit type instead of simulating it with two 64-bit integers.
- \* This implementation was written in C in hopes of portability and for the fun of it during my spare time. It is probably not the most efficient or fastest C implementation. I welcome suggestions, however, that suggest ways to speed things up without breaking portability. I also welcome suggestions to improve portability.
- \* As mentioned above, this code has NOT been thoroughly tested. This is perhaps the most severe limitation.

#### BEFORE YOU COMPILE (OPTIONS):

Each of the options described below may either be defined in the sha2.h header file (or in the sha2.c file in some cases), or on the command line at compile time if your compiler supports such things. For example:

```
#define SHA2_USE_INTTYPES_H
#define SHA2_UNROLL_TRANSFORM
```

Or:

```
cc -c -DSHA2_UNROLL_TRANSFORM sha2.c
cc -c -DBYTE_ORDER=4321 -DBIG_ENDIAN=4321 sha2.c
```

Here are the available options.

Read on below for a description of each one:

```
SHA2_USE_INTTYPES_H
SHA2_USE_MEMSET_MEMCPY/SHA2_USE_BZERO_BCOPY
SHA2_UNROLL_TRANSFORM
BYTE_ORDER (LITTLE_ENDIAN/BIG_ENDIAN)
```

\* SHA2\_USE\_INTTYPES\_H option:

By default, this code uses `u_intXX_t` data types for 8 bit, 32 bit, and 64 bit unsigned integer type definitions. Most BSD systems define these, as does Linux. However, some (like Compaq's Tru64 Unix) may instead use `uintXX_t` data types as defined by recent ANSI C standards and as included in the `inttypes.h` header file. Those wanting to use `inttypes.h` need to define this either in `sha.h` or at compile time.

On those systems where NEITHER definitions are available, you will need to edit both `sha2.h` and `sha2.c` and define things by hand in the appropriate

sections.

\* **BYTE\_ORDER** definitions:

This code assumes that **BYTE\_ORDER** will be defined by the system during compile to either equal **LITTLE\_ENDIAN** or **BIG\_ENDIAN**. If your system does not define these, you may need to define them

by hand in the sha.c

file according to the byte ordering conventions of your system.

\* **SHA2\_USE\_MEMSET\_MEMCPY** or **SHA2\_USE\_BZERO\_BCOPY**

The code in sha2.c can use either `memset()/memcpy()` for memory block operations, or `bzero()/mcopy()`. If you define neither of these, the code will default to `memset()/memcpy()`. You can define either at the command line or in sha2.h or in sha2.c.

\* **SHA2\_UNROLL\_TRANSFORM**

By defining this either on the command line or in sha2.h or sha2.c, the code will use macros to partially "unroll" the SHA transform function. This usually generates bigger executables. It CAN (but not necessarily WILL) generate faster code when you tell your compiler to optimize things. For example, on the FreeBSD and Linux x86 systems I tested things on (using gcc), when I optimized with just -O2 and unrolled the transform, the hash transform was faster by 15-30%. On these same systems, if I did NO optimization, the unrolled transform was SLOWER, much slower (I'm guessing because the code was breaking the cache, but I'm not sure). Your mileage may vary.

**PORTABILITY:**

The code in sha2.c and sha2.h is intended to be portable. It may require that you do a few #definitions in the .h file. I've successfully compiled and tested the sha2.c and sha2.h code on Apple's OS X (on a PPC), FreeBSD 4.1.1 on Intel, Linux on Intel, FreeBSD on the Alpha, and even under Windows98SE using Metrowerks C. The utility/example programs (sha2prog.c, sha2test.c, and sha2speed.c) will very likely have more trouble in portability since they do I/O.

To get sha2.c/sha2.h working under Windows, I had to define **SHA2\_USE\_INTTYPES\_H**, **BYTE\_ORDER**, **LITTLE\_ENDIAN**, and had to comment out the include of `<sys/types.h>` in sha2.h. With a bit more work I got the test program to run and verified that all the test cases passed.

**SUGGESTIONS/BUG FIXES:**

If you make changes to get it working on other architectures, if you fix any bugs, or if you make changes that improve this implementation's efficiency

that would be relatively portable and you're willing to release your changes under the same license, please send them to me for possible inclusion in future versions.

If you know where I can find some additional test vectors, please let me know.

#### CHANGE HISTORY:

0.8 to 0.9 - Fixed spelling errors, changed to `u_intXX_t` type usage, removed names from prototypes, added prototypes to `sha2.c`, and a few things I can't recall.

0.9 to 0.9.5 - Add a new define in `sha2.c` that permits one to compile it to either use `memcpy()/memset()` or `bcopy()/bzero()` for memory block copying and zeroing. Added support for unrolled SHA-256/384/512 transform loops. Just compile with `SHA2_UNROLL_TRANSFORM` to enable. It takes longer to compile, but I hope it is a bit faster. I need to do some test to see whether or not it is. Oh, in `sha2.c`, you either need to define `SHA2_USE_BZERO_BCOPY` or `SHA2_USE_MEMSET_MEMCPY` to choose which way you want to compile. \*Whew\*

It's amazing how quickly something simple starts to grow more complex even in the span of just a few hours. I didn't really intend to do this much.

0.9.5 to 0.9.6 - Added a test program (`sha2test`) which tests against several known test vectors. WARNING: Some of the test output hashes are NOT from NIST's documentation and are the output of this implementation and so may be incorrect.

0.9.6 to 0.9.7 - Fixed a bug that could cause invalid output in certain cases and added an assumed scenario where zero-length data is hashed. Also changed the rotation macros to use a temporary variable as this reduces the number of operations. When data is fed in blocks of the right length, copying of data is reduced in this version. Added `SHAYXZ_Data()` functions for ease of hashing a set of data. Added another file `sha2speed.c` for doing speed testing. Added another test vector with a larger data size

(16KB). Fixed `u_intXX_t` and `uintXX_t` handling by adding a define for `SHA2_USE_INTTYPES_H` as well as made a few other minor changes to get rid of warnings when compiling on Compaq's Tru64 Unix.

0.9.7 to 0.9.8 - The bug fix in 0.9.7 was incomplete and in some cases made

things worse. I believe that 0.9.8 fixes the bug completely so that output is correct. I cannot verify this, however, because of the lack of test vectors against which to do such verification. All versions correctly matched the very few NIST-provided vectors, but unfortunately the bug only appeared in longer message data sets.

0.9.8 to 0.9.9 - Fixed some really bad typos and mistakes on my part that only affected big-endian systems. I didn't have direct access for testing before this version. Thanks to Lucas Marshall for giving me access to his

OS X system.

0.9.9 to 1.0.0b1 Added a few more test samples and made a few changes to make things easier compiling on several other platforms. Also I experimented with alternate macro definitions in the SHA2\_UNROLL\_TRANSFORM version (see sha2.slower.c) and eliminated the T1 temporary variable (the compiler would of course still use internal temporary storage during expression evaluation, but I'd hoped the compiler would be more efficient), but unfortunately under FreeBSD 4.1.1-STABLE on an x86 platform, the change slowed things down.

1.0.0b1 to 1.0 RELEASE Fixed an off-by-one implementation bug that affected SHA-256 when hashed data length  $L = 55 + 64 * X$  where X is either zero or a positive integer, and another (basically the same bug) bug in SHA-384 and SHA-512 that showed up when

hashed data lengths  $L = 111 + 128 * X$ . Thanks to Rogier van de Pol for sending me test data that revealed the bug.

The fix was very simple (just two tiny changes). Also, I finally put the files into RCS so future changes will be easier to manage. The sha2prog.c file was rewritten to be more useful to me, and I got rid of the old C testing program and now use a perl script with a subdirectory full of test data. It's a more flexible test system.

#### LATEST VERSION:

The latest version and documentation (if any ;) should always be available on the web at:

<http://www.aarongifford.com/computers/sha.html>

#### CONTACT ME:

I can be reached via email at:

Aaron Gifford <me@aarongifford.com>

Please don't send support questions. I don't have the time to answer and they'll probably be ignored. Bug fixes, or patches that add something useful will be gratefully accepted, however.

If you use this implementation, I would enjoy getting a brief email message letting me know who you are and what use to which it is being put. There is no requirement to do so. I just think it would be fun.

EXAMPLES:

Here's an example of compiling and using the sha2 program (in this example I build it using the unrolled transform version with -O2 optimizations), and then running the perl testing script:

```
cc -O2 -DSHA2_UNROLL_TRANSFORM -Wall -o sha2 sha2prog.c sha2.c
% ./sha2test.pl
```

[most of the perl script output deleted for brevity]

===== RESULTS (18 VECTOR DATA FILES HASHED) =====

HASH TYPE	NO. OF TESTS	PASSED	FAILED
SHA-256	18	18	0
SHA-384	18	18	0
SHA-512	18	18	0
-----			
TOTAL:	54	54	0

NO ERRORS! ALL TESTS WERE SUCCESSFUL!

ALL TEST VECTORS PASSED!

That's all folks! Have fun!

Aaron out.

Found in path(s):

\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/sha2/README  
No license file was found, but licenses were detected in source scan.

/\*

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\*/

Found in path(s):

\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/utlist.h

No license file was found, but licenses were detected in source scan.

```
<div class="line"><a name="I00005"></a><span class="lineno"> 5</span>&#160;<span class="comment"> *
Permission is hereby granted, free of charge, to any person</span></div>
<div class="line"><a name="I00011"></a><span class="lineno"> 11</span>&#160;<span class="comment"> *
furnished to do so, subject to the following conditions:</span></div>
<div class="line"><a name="I00013"></a><span class="lineno"> 13</span>&#160;<span class="comment"> *
The above copyright notice and this permission notice shall be</span></div>
<div class="line"><a name="I00014"></a><span class="lineno"> 14</span>&#160;<span class="comment"> *
included in all copies or substantial portions of the Software.</span></div>
<div class="line"><a name="I00046"></a><span class="lineno"> 46</span>&#160;<span class="comment"> *
All rights reserved.</span></div>
<div class="line"><a name="I00048"></a><span class="lineno"> 48</span>&#160;<span class="comment">
* Redistribution and use in source and binary forms, with or without</span></div>
<div class="line"><a name="I00049"></a><span class="lineno"> 49</span>&#160;<span class="comment"> *
modification, are permitted provided that the following conditions</span></div>
<div class="line"><a name="I00051"></a><span class="lineno"> 51</span>&#160;<span class="comment"> * 1.
Redistributions of source code must retain the above copyright</span></div>
<div class="line"><a name="I00052"></a><span class="lineno"> 52</span>&#160;<span class="comment"> *
notice, this list of conditions and the following disclaimer.</span></div>
<div class="line"><a name="I00053"></a><span class="lineno"> 53</span>&#160;<span class="comment"> * 2.
Redistributions in binary form must reproduce the above copyright</span></div>
<div class="line"><a name="I00054"></a><span class="lineno"> 54</span>&#160;<span class="comment"> *
notice, this list of conditions and the following disclaimer in the</span></div>
```

```
<div
class="line"><a name="I00055"></a><span class="lineno"> 55</span>&#160;<span class="comment"> *
documentation and/or other materials provided with the distribution.</span></div>
<div class="line"><a name="I00056"></a><span class="lineno"> 56</span>&#160;<span class="comment"> * 3.
Neither the name of the Institute nor the names of its contributors</span></div>
<div class="line"><a name="I00058"></a><span class="lineno"> 58</span>&#160;<span class="comment"> *
without specific prior written permission.</span></div>
```

Found in path(s):

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-
0.8.2/doc/html/t__list_8h_source.html
```

No license file was found, but licenses were detected in source scan.

```
/*
```

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```
*/
```

Found in path(s):

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/uthash.h
```

No license file was found, but licenses were detected in source scan.

```
#!/usr/bin/perl
```

```
#
```

```
# FILE: sha2test.pl
```

```
# AUTHOR: Aaron D. Gifford - http://www.aarongifford.com/
```

```
#
```

```
# Copyright (c) 2001, Aaron D. Gifford
```

```
# All rights reserved.
```



```
#
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# 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.
#
# $Id: sha2test.pl,v 1.1 2001/11/08 00:02:37 adg Exp adg $
#
```

```
sub usage {
my ($err) = shift(@_);
```

```
print <<EOM;
```

```
Error:
```

```
$err
```

```
Usage:
```

```
$0 [<options>] [<test-vector-info-file> [<test-vector-info-file> ...]]
```

```
Options:
```

```
-256 Use SHA-256 hashes during testing
```

```
-384 Use SHA-384 hashes during testing
```

```
-512 Use
```

```
SHA-512 hashes during testing
```

```
-ALL Use all three hashes during testing
```

```
-c256 <command-spec> Specify a command to execute to generate a
```

```
SHA-256 hash. Be sure to include a '%'
```

```
character which will be replaced by the
```

```
test vector data filename containing the
```

data to be hashed. This command implies the -256 option.

-c384 <command-spec> Specify a command to execute to generate a SHA-384 hash. See above. Implies -384.

-c512 <command-spec> Specify a command to execute to generate a SHA-512 hash. See above. Implies -512.

-cALL <command-spec> Specify a command to execute that will generate all three hashes at once and output the data in hexadecimal. See above for information about the <command-spec>. This option implies the -ALL option, and also overrides any other command options if present.

By default, this program expects to execute the command `./sha2` within the current working directory to generate all hashes. If no test vector information files are specified, this program expects to read a series of files ending in ".info" within a subdirectory of the current working directory called "testvectors".

EOM

```
exit(-1);
}
```

```
$c256 = $c384 = $c512 = $cALL = "";
$shashes = 0;
@FILES = ();
```

# Read all command-line options and files:

```
while ($opt = shift(@ARGV)) {
  if ($opt =~ s/^\-//) {
    if ($opt eq "256") {
      $shashes |= 1;
    } elsif ($opt eq "384") {
      $shashes |= 2;
    } elsif ($opt eq "512") {
      $shashes |= 4;
    } elsif ($opt =~ /^ALL$/i) {
      $shashes = 7;
    } elsif ($opt =~ /^c256$/i) {
      $shashes |= 1;
      $opt = $c256 = shift(@ARGV);
      $opt =~ s/^\s+.*$/;
      if (!$c256 || $c256 !~ /\%\/ || !-x $opt) {
        usage("Missing or invalid command specification for option -c256: $opt\n");
      }
    } elsif ($opt =~ /^c384$/i) {
```

```

$shashes |= 2;
$opt = $c384 = shift(@ARGV);
$opt =~ s/\s+.*$//;
if (!$c384 || $c384 !~ /\%/ || !-x $opt) {
    usage("Missing or invalid command specification for option -c384: $opt\n");
}
}
elseif ($opt =~ /^c512$/i) {
    $shashes |= 4;
    $opt = $c512 = shift(@ARGV);
    $opt =~ s/\s+.*$//;
    if (!$c512 || $c512 !~ /\%/ || !-x $opt) {
        usage("Missing or invalid command specification for option -c512: $opt\n");
    }
} elseif ($opt =~ /^cALL$/i) {
    $shashes = 7;
    $opt = $cALL = shift(@ARGV);
    $opt =~ s/\s+.*$//;
    if (!$cALL || $cALL !~ /\%/ || !-x $opt) {
        usage("Missing or invalid command specification for option -cALL: $opt\n");
    }
} else {
    usage("Unknown/invalid option '$opt'\n");
}
} else {
    usage("Invalid, nonexistent, or unreadable file '$opt': $!\n") if (!-f $opt);
    push(@FILES, $opt);
}
}

# Set up defaults:
if (!$cALL && !$c256 && !$c384 && !$c512) {
    $cALL = "./sha2 -ALL %";
    usage("Required ./sha2 binary executable not found.\n") if (!-x "./sha2");
}
$shashes = 7 if (!$shashes);

# Do some sanity checks:
usage("No command was supplied to generate SHA-256 hashes.\n") if ($shashes & 1 == 1 && !$cALL && !$c256);
usage("No command
was supplied to generate SHA-384 hashes.\n") if ($shashes & 2 == 2 && !$cALL && !$c384);
usage("No command was supplied to generate SHA-512 hashes.\n") if ($shashes & 4 == 4 && !$cALL && !$c512);

# Default .info files:
if (scalar(@FILES) < 1) {
    opendir(DIR, "testvectors") || usage("Unable to scan directory 'testvectors' for vector information files: $!\n");
    @FILES = grep(/\.info$/, readdir(DIR));
    closedir(DIR);
}

```

```

@FILES = map { s/^testvectors\/;/; $_; } @FILES;
@FILES = sort(@FILES);
}

# Now read in each test vector information file:
foreach $file (@FILES) {
    $dir = $file;
    if ($file !~ /\//) {
        $dir = "./";
    } else {
        $dir =~ s/\/[^\//]+$/;
        $dir .= "/";
    }
    open(FILE, "<" . $file) ||
        usage("Unable to open test vector information file '$file' for reading: $!\n");
    $vec = { desc => "", file => "", sha256 => "", sha384 => "", sha512 => "" };
    $data = $field = "";
    $line = 0;
    while(<FILE>) {
        $line++;
        s/s*[\r\n]+$/;
        next if ($field && $field ne "DESCRIPTION" && !$_);
        if
        (/^(DESCRIPTION|FILE|SHA256|SHA384|SHA512):$/ ) {
            if ($field eq "DESCRIPTION") {
                $vec->{desc} = $data;
            } elsif ($field eq "FILE") {
                $data = $dir . $data if ($data !~ /\//);
                $vec->{file} = $data;
            } elsif ($field eq "SHA256") {
                $vec->{sha256} = $data;
            } elsif ($field eq "SHA384") {
                $vec->{sha384} = $data;
            } elsif ($field eq "SHA512") {
                $vec->{sha512} = $data;
            }
            $data = "";
            $field = $1;
        } elsif ($field eq "DESCRIPTION") {
            s/^ //;
            $data .= $_ . "\n";
        } elsif ($field =~ /^SHA\d\d\d$/) {
            s/^\s+//;
            if (!/^[a-f0-9]{32}||[a-f0-9]{64}$/) {
                usage("Invalid SHA-256/384/512 test vector information " .
                    "file format at line $line of file '$file\n");
            }
            $data .= $_;

```

```

} elsif ($field eq "FILE") {
    s/^ //;
    $data .= $_;
} else {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format at line $line of file '$file\n");
}
}
if ($field eq "DESCRIPTION") {
    $data = $dir . $data
    if ($data !~ /^\/);
    $vec->{desc} = $data;
} elsif ($field eq "FILE") {
    $vec->{file} = $data;
} elsif ($field eq "SHA256") {
    $vec->{sha256} = $data;
} elsif ($field eq "SHA384") {
    $vec->{sha384} = $data;
} elsif ($field eq "SHA512") {
    $vec->{sha512} = $data;
} else {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format. Missing required fields in file '$file\n");
}

# Sanity check all entries:
if (!$vec->{desc}) {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format. Missing required DESCRIPTION field in file '$file\n");
}
if (!$vec->{file}) {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format. Missing required FILE field in file '$file\n");
}
if (!-f $vec->{file}) {
    usage("The test vector data file (field FILE) name " .
        "'$vec->{file}' is not a readable file. Check the FILE filed in " .
        "file '$file'.\n");
}
if (!$vec->{sha256} || $vec->{sha384}
|| $vec->{sha512})) {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format. There must be at least one SHA256, SHA384, or SHA512 " .
        "field specified in file '$file'.\n");
}
if ($vec->{sha256} !~ /^[a-f0-9]{64})$/ {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format. The SHA256 field is invalid in file '$file'.\n");
}

```

```

}
if ($vec->{sha384} !~ /^[a-f0-9]{96}$/) {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format. The SHA384 field is invalid in file '$file'.\n");
}
if ($vec->{sha512} !~ /^[a-f0-9]{128}$/) {
    usage("Invalid SHA-256/384/512 test vector information file " .
        "format. The SHA512 field is invalid in file '$file'.\n");
}
close(FILE);
if ($shashes & (($vec->{sha256} ? 1 : 0) | ($vec->{sha384} ? 2 : 0) | ($vec->{sha512} ? 4 : 0))) {
    push(@VECTORS, $vec);
}
}

usage("There were no test vectors for the specified hash(es) in any of the test vector information
files you specified.\n") if (scalar(@VECTORS) < 1);

$num = $errors = $error256 = $error384 = $error512 = $tests = $test256 = $test384 = $test512 = 0;
foreach $vec (@VECTORS) {
    $num++;
    print "TEST VECTOR # $num:\n";
    print "\t" . join("\n\t", split(/\n/, $vec->{desc})) . "\n";
    print "VECTOR DATA FILE:\n\t$vec->{file}\n";
    $sha256 = $sha384 = $sha512 = "";
    if ($cALL) {
        $prog = $cALL;
        $prog =~ s/^%/"$vec->{file}"/g;
        @SHA = grep(/[a-fA-F0-9]{64,128}/, split(/\n/, ` $prog`));
        ($sha256) = grep(/^(^a-fA-F0-9){64}$|^a-fA-F0-9]{64}[^a-fA-F0-9][^a-fA-F0-9]{64}$|^a-fA-F0-9][a-fA-F0-9]{64}[^a-fA-F0-9]/, @SHA);
        ($sha384) = grep(/^(^a-fA-F0-9){96}$|^a-fA-F0-9]{96}[^a-fA-F0-9][^a-fA-F0-9][a-fA-F0-9]{96}$|^a-fA-F0-9][a-fA-F0-9]{96}[^a-fA-F0-9]/, @SHA);
        ($sha512) = grep(/^(^a-fA-F0-9){128}$|^a-fA-F0-9]{128}[^a-fA-F0-9][^a-fA-F0-9][a-fA-F0-9]{128}$|^a-fA-F0-9][a-fA-F0-9]{128}[^a-fA-F0-9]/, @SHA);
    } else {
        if ($c256) {
            $prog = $c256;
            $prog =~ s/^%/"$vec->{file}"/g;
            @SHA
            = grep(/[a-fA-F0-9]{64,128}/, split(/\n/, ` $prog`));
            ($sha256) = grep(/^(^a-fA-F0-9){64}$|^a-fA-F0-9]{64}[^a-fA-F0-9][^a-fA-F0-9][a-fA-F0-9]{64}$|^a-fA-F0-9][a-fA-F0-9]{64}[^a-fA-F0-9]/, @SHA);
        }
        if ($c384) {
            $prog = $c384;
            $prog =~ s/^%/"$vec->{file}"/g;
            @SHA = grep(/[a-fA-F0-9]{64,128}/, split(/\n/, ` $prog`));

```

```

($sha384) = grep(/^[a-fA-F0-9]{96}$^[a-fA-F0-9]{96}^[a-fA-F0-9][a-fA-F0-9][a-fA-F0-9]{96}$^[a-fA-F0-9][a-fA-F0-9]{96}^[a-fA-F0-9]/, @SHA);
}
if ($c512) {
    $prog = $c512;
    $prog =~ s/%/"$vec->{file}"/g;
    @SHA = grep(/[a-fA-f0-9]{64,128}/, split(/\n/, `$prog`));
    ($sha512) = grep(/^[a-fA-F0-9]{128}$^[a-fA-F0-9]{128}^[a-fA-F0-9][a-fA-F0-9][a-fA-F0-9]{128}$^[a-fA-F0-9][a-fA-F0-9]{128}^[a-fA-F0-9]/, @SHA);
}
}
usage("Unable to generate any hashes for file '$vec->{file}'!\n") if (!$sha256 && !$sha384 && $sha512);
$sha256 =~ tr/A-F/a-f/;
$sha384 =~ tr/A-F/a-f/;
$sha512 =~ tr/A-F/a-f/;
$sha256 =~ s/^[a-f0-9]{64}.*$/$/;
$sha384
    =~ s/^[a-f0-9]{96}.*$/$/;
$sha512 =~ s/^[a-f0-9]{128}.*$/$/;

if ($sha256 && $hashes & 1 == 1) {
    if ($vec->{sha256} eq $sha256) {
        print "SHA256 MATCHES:\n\t$sha256\n"
    } else {
        print "SHA256 DOES NOT MATCH:\n\tEXPECTED:\n\t\t$vec->{sha256}\n" .
            "\tGOT:\n\t\t$sha256\n\n";
        $error256++;
    }
    $test256++;
}
if ($sha384 && $hashes & 2 == 2) {
    if ($vec->{sha384} eq $sha384) {
        print "SHA384 MATCHES:\n\t" . substr($sha384, 0, 64) . "\n\t" .
            substr($sha384, -32) . "\n";
    } else {
        print "SHA384 DOES NOT MATCH:\n\tEXPECTED:\n\t\t" .
            substr($vec->{sha384}, 0, 64) . "\n\t\t" .
            substr($vec->{sha384}, -32) . "\n\t\tGOT:\n\t\t" .
            substr($sha384, 0, 64) . "\n\t\t" . substr($sha384, -32) . "\n\n";
        $error384++;
    }
    $test384++;
}
if ($sha512 && $hashes & 4 == 4) {
    if ($vec->{sha512} eq $sha512) {
        print "SHA512 MATCHES:\n\t" . substr($sha512, 0, 64) . "\n\t" .
            substr($sha512, -64) .

```

```

"\n";
} else {
print "SHA512 DOES NOT MATCH:\n\tEXPECTED:\n\t\t" .
    substr($vec->{sha512}, 0, 64) . "\n\t\t" .
    substr($vec->{sha512}, -32) . "\n\tGOT:\n\t\t" .
    substr($sha512, 0, 64) . "\n\t\t" . substr($sha512, -64) . "\n\n";
$error512++;
}
$test512++;
}
}

$errors = $error256 + $error384 + $error512;
$tests = $test256 + $test384 + $test512;
print "\n\n===== RESULTS ($num VECTOR DATA FILES HASHED) =====\n\n";
print "HASH TYPE\tNO. OF TESTS\tPASSED\tFAILED\n";
print "-----\t-----\t-----\t-----\n";
if ($test256) {
    $pass = $test256 - $error256;
    print "SHA-256\t".substr("    $test256", -12).\t".substr("    $pass", -6).\t".substr("    $error256", -6).\n";
}
if ($test384) {
    $pass = $test384 - $error384;
    print "SHA-384\t".substr("    $test384", -12).\t".substr("    $pass", -6).\t".substr("    $error384", -6).\n";
}
if ($test512) {
    $pass = $test512 - $error512;
    print "SHA-512\t".substr("    $test512",
-12).\t".substr("    $pass", -6).\t".substr("    $error512", -6).\n";
}
print "-----\n";
$pass = $tests - $errors;
print "TOTAL:    ".substr("    $tests", -12).\t".substr("    $pass", -6).\t".substr("    $errors", -6).\n\n";
print "NO ERRORS! ALL TESTS WERE SUCCESSFUL!\n\n" if (!$errors);

```

Found in path(s):

\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/sha2/sha2test.pl

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Found in path(s):

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/peer_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/session_8h_source.html
*
/opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/dtls__time_8c_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/ccm_8c_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/numeric_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/alert_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/hmac_8c_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/session_8c_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/debug_8c_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/ccm_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/global_8h_source.html
*
/opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/hmac_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/dtls__time_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/state_8h_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/peer_8c_source.html
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/doc/html/debug_8h_source.html
```

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```
#
#                                     -*- Autoconf -*-
# Process this file with autoconf to produce a configure script.
#
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```

```
AC_PREREQ([2.65])
AC_INIT([tinydtls], [0.8.2])
AC_CONFIG_SRCDIR([dtls.c])
dnl AC_CONFIG_HEADERS([config.h])
```

```
AC_ARG_WITH(contiki,
[AS_HELP_STRING([--with-contiki],[build libtinydtls for the Contiki OS]),
[AC_DEFINE(WITH_CONTIKI,1,[Define to 1 if building for Contiki.])
WITH_CONTIKI=1],
[])
```

```
AC_PATH_PROG(DOXYGEN, doxygen, [:])
AC_PATH_PROG(ETAGS, etags, [/bin/false])
```

```
if test "${with_contiki}" != "yes" ; then
# Checks for programs.
AC_PROG_MAKE_SET
AC_PROG_CC
AC_PROG_RANLIB
```

```
AC_C_BIGENDIAN
```

```
# Checks for libraries.
AC_SEARCH_LIBS([gethostbyname], [nsl])
AC_SEARCH_LIBS([socket], [socket])
fi
```

```
AC_ARG_WITH(debug,
[AS_HELP_STRING([--without-debug],[disable all debug
output and assertions]),
[CPPFLAGS="${CPPFLAGS} -DNDEBUG"
NDEBUG=1],
[])
```

```
AC_ARG_WITH(ecc,  
[AS_HELP_STRING([--without-ecc],[disable support for TLS_ECDHE_ECDSA_WITH_AES_128_CCM_8]),  
[],  
[AC_DEFINE(DTLS_ECC, 1, [Define to 1 if building with ECC support.])  
OPT_OBJS="${OPT_OBJS} ecc/ecc.o"  
DTLS_ECC=1])
```

```
AC_ARG_WITH(psk,  
[AS_HELP_STRING([--without-psk],[disable support for TLS_PSK_WITH_AES_128_CCM_8]),  
[],  
[AC_DEFINE(DTLS_PSK, 1, [Define to 1 if building with PSK support])  
DTLS_PSK=1])
```

```
CPPFLAGS="${CPPFLAGS} -DDTLSv12 -DWITH_SHA256"  
OPT_OBJS="${OPT_OBJS} sha2/sha2.o"
```

```
AC_SUBST(OPT_OBJS)  
AC_SUBST(NDEBUG)  
AC_SUBST(WITH_CONTIKI)  
AC_SUBST(DTLS_ECC)  
AC_SUBST(DTLS_PSK)
```

```
if test "${with_contiki}" = "yes" ; then
```

```
AC_MSG_NOTICE([skipping header checks for Contiki])
```

```
else
```

```
# Checks for header files.
```

```
AC_CHECK_HEADERS([assert.h arpa/inet.h fcntl.h inttypes.h netdb.h netinet/in.h stddef.h stdint.h stdlib.h  
string.h strings.h sys/param.h sys/socket.h unistd.h])
```

```
AC_CHECK_HEADERS([sys/time.h time.h])
```

```
AC_CHECK_HEADERS([sys/types.h sys/stat.h])
```

```
# Checks for typedefs, structures, and compiler characteristics.
```

```
AC_C_INLINE
```

```
AC_TYPE_SIZE_T
```

```
AC_CHECK_MEMBER([struct sockaddr_in6.sin6_len],
```

```
[AC_DEFINE(HAVE_SOCKADDR_IN6_SIN6_LEN, [1],
```

```
[Define to 1 if struct sockaddr_in6 has a member sin6_len.]), [],
```

```
[#include <netinet/in.h>])
```

```
# Checks for library functions.
```

```
AC_FUNC_MALLOC
```

```
AC_CHECK_FUNCS([memset select socket strdup strerror strlen fls vprintf])
```

```
fi
```

```
AC_CONFIG_HEADERS([dtls_config.h tinydtls.h])
```

```
# Adds Contiki-specific definitions to the end of dtls_config.h
AH_BOTTOM([
#ifdef WITH_CONTIKI
#include "platform-specific/platform.h"
#endif])
```

```
AC_CONFIG_FILES([Makefile
                 doc/Makefile
                 doc/Doxyfile
                 tests/Makefile
                 examples/contiki/Makefile
                 platform-specific/Makefile
                 sha2/Makefile
                 aes/Makefile
                 ecc/Makefile])
AC_OUTPUT
```

Found in path(s):

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/configure.in
No license file was found, but licenses were detected in source scan.
```

```
/* dtls -- a very basic DTLS implementation
```

```
*
```

```
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```

```
*
```

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* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/peer.c
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/dtls_time.h
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/peer.h
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/dtls_time.c
```

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```
/* dtls -- a very basic DTLS implementation
```

```
*
```

```
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```

```
* Copyright (C) 2013 Hauke Mehrtens <hauke@hauke-m.de>
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*/
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```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/crypto.c
```

```
* /opt/cola/permits/1866453212_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-0.8.2/crypto.h
```

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```
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```

```
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class="comment">Redistribution and use in source and binary forms, with or without</span></div>
```

```
<div class="line"><a name="I00006"></a><span class="lineno"> 6</span>&#160;<span
class="comment">modification, are permitted provided that the following conditions are met:</span></div>
```

```
<div class="line"><a name="I00008"></a><span class="lineno"> 8</span>&#160;<span class="comment"> *
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```

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\* /opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-  
0.8.2/doc/html/utlist\_8h\_source.html

\*

/opt/cola/permits/1866453212\_1702435663.7233841/0/tinydtls-0-8-2-tar-gz/tinydtls-  
0.8.2/doc/html/uthash\_8h\_source.html

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/\* debug.h -- debug utilities

\*

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\* FILE: sha2speed.c

\* AUTHOR: Aaron D. Gifford - <http://www.aarongifford.com/>

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\*  
\* \$Id: sha2speed.c,v 1.1 2001/11/08 00:02:23 adg Exp adg \$  
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# 1.79 lib-utils android-6.0.0\_r26

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