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*

*@(#)tcp.h8.1 (Berkeley) 6/10/93

* \$FreeBSD\$

*/

#ifndef _NETINET_TCP_H_

#define _NETINET_TCP_H_

#include <sys/cdefs.h>

#include <sys/types.h>

#if __BSD_VISIBLE

typedefu_int32_t tcp_seq;

#define tcp6_seqtcp_seq/* for KAME src sync over BSD*'s */

#define tcp6hdrtcp_hdr/* for KAME src sync over BSD*'s */

/*

* TCP header.

* Per RFC 793, September, 1981.

*/

struct tcphdr {

u_shortth_sport;/* source port */

u_shortth_dport;/* destination port */

tcp_seqth_seq;/* sequence number */

tcp_seqth_ack;/* acknowledgement number */

#if BYTE_ORDER == LITTLE_ENDIAN

u_charth_x2:4;/* (unused) */

th_off:4;/* data offset */

```

#endif

#if BYTE_ORDER == BIG_ENDIAN
u_charth_off:4; /* data offset */
th_x2:4; /* (unused) */
#endif

u_charth_flags;

#define TH_FIN 0x01
#define TH_SYN 0x02
#define TH_RST 0x04
#define TH_PUSH 0x08
#define TH_ACK 0x10
#define TH_URG 0x20
#define TH_ECE 0x40
#define TH_CWR 0x80

#define TH_FLAGS (TH_FIN|TH_SYN|TH_RST|TH_PUSH|TH_ACK|TH_URG|TH_ECE|TH_CWR)
#define PRINT_TH_FLAGS "20\1FIN\2SYN\3RST\4PUSH\5ACK\6URG\7ECE\10CWR"

u_shortth_win; /* window */
u_shortth_sum; /* checksum */
u_shortth_urp; /* urgent pointer */
};

#define TCPOPT_EOL 0
#define TCPOLEN_EOL 1
#define TCPOPT_PAD 0 /* padding after EOL */
#define TCPOLEN_PAD 1
#define TCPOPT_NOP 1
#define TCPOLEN_NOP 1
#define TCPOPT_MAXSEG 2
#define TCPOLEN_MAXSEG 4
#define TCPOPT_WINDOW 3
#define TCPOLEN_WINDOW 3
#define TCPOPT_SACK_PERMITTED 4
#define TCPOLEN_SACK_PERMITTED 2

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#define TCPOPT_SACK5
#define TCPOLEN_SACKHDR2
#define TCPOLEN_SACK8/* 2*sizeof(tcp_seq) */
#define TCPOPT_TIMESTAMP8
#define TCPOLEN_TIMESTAMP10
#define TCPOLEN_TSTAMP_APPA(TCPOLEN_TIMESTAMP+2) /* appendix A */
#define TCPOPT_SIGNATURE19/* Keyed MD5: RFC 2385 */
#define TCPOLEN_SIGNATURE18

/* Miscellaneous constants */
#define MAX_SACK_BLKS6/* Max # SACK blocks stored at receiver side */
#define TCP_MAX_SACK4/* MAX # SACKs sent in any segment */

/*
 * The default maximum segment size (MSS) to be used for new TCP connections
 * when path MTU discovery is not enabled.
 *
 * RFC879 derives the default MSS from the largest datagram size hosts are
 * minimally required to handle directly or through IP reassembly minus the
 * size of the IP and TCP header. With IPv6 the minimum MTU is specified
 * in RFC2460.
 *
 * For IPv4 the MSS is 576 - sizeof(struct tcphdr)
 * For IPv6 the MSS is IPV6_MMTU - sizeof(struct ip6_hdr) - sizeof(struct tcphdr)
 *
 * We use explicit numerical definition here to avoid header pollution.
 */
#define TCP_MSS536
#define TCP6_MSS1220

/*
 * Limit the lowest MSS we accept for path MTU discovery and the TCP SYN MSS
 * option. Allowing low values of MSS can consume significant resources and

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* be used to mount a resource exhaustion attack.
*
* Connections requesting lower MSS values will be rounded up to this value
* and the IP_DF flag will be cleared to allow fragmentation along the path.
*
* See tcp_subr.c tcp_minmss SYSCTL declaration for more comments. Setting
* it to "0" disables the minmss check.
*
* The default value is fine for TCP across the Internet's smallest official
* link MTU (256 bytes for AX.25 packet radio). However, a connection is very
* unlikely to come across such low MTU interfaces these days (anno domini 2003).
*/
#defineTCP_MINMSS 216

#defineTCP_MAXWIN65535/* largest value for (unscaled) window */
#defineTTCP_CLIENT_SND_WND4096/* dflt send window for T/TCP client */

#define TCP_MAX_WINSHIFT14/* maximum window shift */

#define TCP_MAXBURST4/* maximum segments in a burst */

#define TCP_MAXHLEN(0xf<<2)/* max length of header in bytes */
#define TCP_MAXOLEN(TCP_MAXHLEN - sizeof(struct tcphdr))
/* max space left for options */
#endif /* __BSD_VISIBLE */

/*
* User-settable options (used with setsockopt). These are discrete
* values and are not masked together. Some values appear to be
* bitmasks for historical reasons.
*/

#defineTCP_NODELAY1/* don't delay send to coalesce packets */
#if __BSD_VISIBLE
#defineTCP_MAXSEG2/* set maximum segment size */
#define TCP_NOPUSH4/* don't push last block of write */

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#define TCP_NOOPT8/* don't use TCP options */
#define TCP_MD5SIG16/* use MD5 digests (RFC2385) */
#define TCP_INFO32/* retrieve tcp_info structure */
#define TCP_CONGESTION64/* get/set congestion control algorithm */
#define TCP_KEEPIINIT128/* N, time to establish connection */
#define TCP_KEEPIIDLE256/* L,N,X start keepalives after this period */
#define TCP_KEEPIINTVL512/* L,N interval between keepalives */
#define TCP_KEEPCNT1024/* L,N number of keepalives before close */

/* Start of reserved space for third-party user-settable options. */
#define TCP_VENDORSO_VENDOR

#define TCP_CA_NAME_MAX16/* max congestion control name length */

#define TCPI_OPT_TIMESTAMPS0x01
#define TCPI_OPT_SACK0x02
#define TCPI_OPT_WSCALE0x04
#define TCPI_OPT_ECN0x08
#define TCPI_OPT_TOE0x10

/*
 * The TCP_INFO socket option comes from the Linux 2.6 TCP API, and permits
 * the caller to query certain information about the state of a TCP
 * connection. We provide an overlapping set of fields with the Linux
 * implementation, but since this is a fixed size structure, room has been
 * left for growth. In order to maximize potential future compatibility with
 * the Linux API, the same variable names and order have been adopted, and
 * padding left to make room for omitted fields in case they are added later.
 *
 * XXX: This is currently an unstable ABI/API, in that it is expected to
 * change.
 */
struct tcp_info {
    u_int8_t tcpi_state;/* TCP FSM state. */

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u_int8_t__tcpi_ca_state;
u_int8_t__tcpi_retransmits;
u_int8_t__tcpi_probes;
u_int8_t__tcpi_backoff;
u_int8_ttcpi_options;/* Options enabled on conn. */
u_int8_ttcpi_snd_wscale:4;/* RFC1323 send shift value. */
tcpi_rcv_wscale:4;/* RFC1323 rcv shift value. */

u_int32_ttcpi_rto;/* Retransmission timeout (usec). */
u_int32_t__tcpi_ato;
u_int32_ttcpi_snd_mss;/* Max segment size for send. */
u_int32_ttcpi_rcv_mss;/* Max segment size for receive. */

u_int32_t__tcpi_unacked;
u_int32_t__tcpi_sacked;
u_int32_t__tcpi_lost;
u_int32_t__tcpi_retrans;
u_int32_t__tcpi_fackets;

/* Times; measurements in usecs. */
u_int32_t__tcpi_last_data_sent;
u_int32_t__tcpi_last_ack_sent;/* Also unimpl. on Linux? */
u_int32_ttcpi_last_data_rcv;/* Time since last rcv data. */
u_int32_t__tcpi_last_ack_rcv;

/* Metrics; variable units. */
u_int32_t__tcpi_pmtu;
u_int32_t__tcpi_rcv_ssthresh;
u_int32_ttcpi_rtt;/* Smoothed RTT in usecs. */
u_int32_ttcpi_rttvar;/* RTT variance in usecs. */
u_int32_ttcpi_snd_ssthresh;/* Slow start threshold. */
u_int32_ttcpi_snd_cwnd;/* Send congestion window. */
u_int32_t__tcpi_advmss;
u_int32_t__tcpi_reordering;

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u_int32_t__tcpv_rtt;
u_int32_ttcpv_rcv_space; /* Advertised rcv window. */

/* FreeBSD extensions to tcp_info. */
u_int32_ttcpv_snd_wnd; /* Advertised send window. */
u_int32_ttcpv_snd_bwnd; /* No longer used. */
u_int32_ttcpv_snd_nxt; /* Next egress seqno */
u_int32_ttcpv_rcv_nxt; /* Next ingress seqno */
u_int32_ttcpv_toe_tid; /* HWTID for TOE endpoints */
u_int32_ttcpv_snd_rexmitpack; /* Retransmitted packets */
u_int32_ttcpv_rcv_oopack; /* Out-of-order packets */
u_int32_ttcpv_snd_zerowin; /* Zero-sized windows sent */

/* Padding to grow without breaking ABI. */
u_int32_t__tcpv_pad[26]; /* Padding. */
};
#endif

#endif /* !_NETINET_TCP_H */

```

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Secure Hashing Algorithm (SHA-1) <http://www.packetizer.com/security/sha1/>

Secure Hashing Algorithm (SHA-1)

A C and C++ Implementation

The Secure Hashing Standard, defined in FIPS PUB 180-1, defines the Secure Hashing Algorithm (SHA-1). SHA-1 can be used to produce a message digest for a given message. Essentially, this is a 160-bit number that represents the message.

In theory, no two messages would ever share the same message digest. What this means is that the message digest can serve as a fingerprint for a file or other source of data. SHA-1 is used by Digital Signature Standard (DSS), which is a standard used for digitally signing documents or other data.

From this page, you can download the C++ and the C the implementations of SHA-1. This is the same source base from which the code in RFC 3174 was based. While the RFC has remained static, this code base has been modified (ever so slightly) and any reported bug fixes will be put into this source repository. (To date, none have been reported, though the code has been used widely.)

Along with the class that implements the SHA-1 algorithm, there are also utilities to produce fingerprints of files, compare files based on fingerprints, and exercise the class itself.

All downloads include the utilities "sha" and "shacmp" for displaying fingerprints of files (sha) and also comparing the fingerprints of two files (shacmp).

The fingerprint for the C++ (sha1.zip) file is: DA58FA3C 0501283F 09385A91 2C844B1B 82AFEF34

The fingerprint for the C (sha1-c.zip) file is: 43A368A6 4FEEF833 9CCF389A 5CE9F1B4 C5D5637A

Windows binaries are in the sha1_windows.zip file. The fingerprint is for that file is: 2FED8316 1FC9F7C3 ECD88DBE F0DD75AD F103AA44

Finally, we should point out that this is not an optimized version of the SHA-1 algorithm. It is written so that the algorithm can be easily compared against the FIPS document. No effort has been made to improve performance in any way. The most significant advantage of the code found here is that it is entirely free and may be used in commercial products without a fee.

If you are looking for an optimized version, may we suggest you use Christophe Devine's code. Our preliminary testing shows that it is significantly faster than the reference implementation found on this page.

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UMAC: Fast and Provably Secure Message Authentication

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Independent JPEG Group

IJG is an informal group that writes and distributes a widely used free library for JPEG image compression. The first version was released on 7-Oct-1991.

The current version is release 9a of 19-Jan-2014. This is a stable and solid foundation for many application's JPEG support.

You can find our original code and some supporting documentation in the directory files. There is a Unix format package in tar.gz archive format `jpegsr9a.tar.gz` and a Windows format package in zip archive format `jpegsr9a.zip`. A collection of modified versions with adaptations and error fixes for system maintenance is available on jpegclub.org in the directory support.

To learn more about how to use JPEG, see the JPEG FAQ. If you'd like to learn about how JPEG works, start with the [comp.compression FAQ](#).

The ISO/IEC JTC1/SC29/WG1 standards committee (previously known as JPEG, together with ITU-T SG16) had their own web site. IJG was not affiliated with the ISO committee.

IJG development continues. Advanced features are being prepared for coming releases...

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PyYAML - a YAML parser and emitter for Python <http://pyyaml.org/wiki/PyYAML>

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Title:

RSA Data Security, Inc. MD5 Message Digest Algorithm

Language:

C

Author:

Philip J. Erdelsky

pje@efgh.com

<http://www.alumni.caltech.edu/~pje/>

Date:

August 8, 2002

Usage:

Public domain; no restrictions on use

Portability:

Any C environment, also compiles as C++

Keywords:

MD5, cryptography

Abstract:

A C package to calculate the RSA Data Security, Inc. MD5 Message Digest

Source code:

md5.txt

Introduction

The code in this package is taken mainly from Ronald Rivest's original 1992 memorandum (see www.ietf.org/rfc/rfc1321.txt). It computes the 128-bit RSA Data Security, Inc. MD5 message digest of a byte stream. Although the MD5 algorithm defines a digest for bit streams of any size, this package handles only streams of 8-bit bytes.

Although most of the code in Rivest's original memo has been retained, it has been cleaned up quite a bit:

The modified code compiles as either C or C++; the original compiled only as C.

The modified code has prototypes and "const" pointers to force extra error checking.

The code has been indented in a uniform way.

How to Use the Package

The package resides in the files md5.h and md5.c. The file md5.txt contains both files in text form.

Use a text editor to separate the files. Include the file md5.h in any source module that calls on the package. Compile the file md5.c and link it to the rest of your application.

If the package is used on a little-endian machine, such as the Pentium family, the preprocessor label `LITTLE_ENDIAN` should be defined so the package can avoid some of the byte-swapping that is required on big-endian machines.

To compute the message digest of a byte stream, first define a context buffer and open it:

```
MD5Open(pmd5);
```

```
MD5 *pmd5;           pointer to MD5 context buffer
```

Then feed the byte stream, a block at a time, to the MD5Digest() function:

```
MD5Digest(pmd5, buffer, buflen);
```

```
MD5 *pmd5;           pointer to MD5 context buffer
```

const void *buffer; pointer to first byte of block

unsigned buflen; number of bytes in block

Finally, close the context buffer and obtain the digest:

```
M5Close(pmd5, digest);
```

MD5 *pmd5; pointer to MD5 context buffer

unsigned char digest[16]; digest

For example, the following code computes the digest of a file:

```
#include "md5.h"
...

MD5 md5;
FILE *fp = fopen(filespecs, "r");
char buffer[64];
unsigned char digest[16];
int length;
MD5Open(&md5);
while ((length = fread(buffer, 1, sizeof(buffer), fp)) > 0)
    MD5Digest(&md5, buffer, length);
MD5Close(&md5, digest);
fclose(fp);
```

Although MD5Digest() can handle blocks of any size (even zero), it operates internally on blocks of size 64, so it is most efficient if given blocks that are exact multiples of this size.

Applications of Message Digests

It is obviously not impossible for two different byte streams to give the same digest, but it is so difficult to find two such streams that the digest can be considered unique for all practical purposes.

One use of message digests is in digital signatures. Public key cryptography is used to obtain a pair of keys, one public and one private. A digest of the message is computed, and the private key is used to encrypt the digest. The encrypted digest is the signature.

The signature can be verified by using the public key to decrypt it and comparing the result to a digest computed from the message. If they match, the message must have been signed by someone having access to the private key.

Of course, it would be possible to dispense with the digest and sign the entire message piecemeal. However, this is seldom done because public key encryption is much slower than the computation of a message digest.

Message digests can also be used to establish the creation date of a message without revealing its contents. The creator computes a message digest and files the digest with a reliable registrar, who notes the filing date. If the creator later reveals the message, anyone can show that it was created on or before the filing date by recomputing the message digest and comparing it to the filed message digest.

This technique offers reasonable security in most cases because it is virtually impossible to recover the message from the digest, unless it is very short or almost all of it is already known. Even in these special cases the message can be hidden by simply padding it with random gibberish.

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jQuery cookie - jQuery plugin for reading, writing and deleting cookies

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jQuery UI - jQuery user interface library

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iniParser: stand-alone ini parser library in ANSI C

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ezXML - An XML parser C library

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dynatree - JavaScript dynamic tree view plugin for jQuery

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lshw - lshw (Hardware Lister) is a small tool to provide detailed information on the hardware configuration of the machine.

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This code is derived from section 17.1 of Applied Cryptography, second edition, which describes a stream cipher allegedly compatible with RSA Labs "RC4" cipher (the actual description of which is a trade secret). The same algorithm is used as a stream cipher called "arcfour" in Tatu Ylonen's ssh package.

Here the stream cipher has been modified always to include the time when initializing the state. That makes it impossible to regenerate the same random sequence twice, so this can't be used

for encryption, but will generate good random numbers.

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This code implements the MD5 message-digest algorithm.

The algorithm is due to Ron Rivest. This code was written by Colin Plumb in 1993, no copyright is claimed.

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Equivalent code is available from RSA Data Security, Inc.

This code has been tested against that, and is equivalent,

except that you don't need to include two pages of legalese with every copy.

To compute the message digest of a chunk of bytes, declare an MD5Context structure, pass it to MD5Init, call MD5Update as needed on buffers full of bytes, and then call MD5Final, which will fill a supplied 16-byte array with the digest.

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memtester - A userspace utility for testing the memory subsystem for faults

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popt - Popt is a C library for parsing command line parameters.

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vixie-cron - a full featured cron implementation based on SysV cron

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8)

·Userspace Probes (UProbes)

* include/linux/uprobes.h

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Pam radius

*RADIUS

*Remote Authentication Dial In User Service

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