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---------------------------------------------------------------

The goal of the pthreads-win32 project has been to provide a quality and complete implementation of the POSIX threads API for Microsoft Windows within the limits imposed by virtue of it being a stand-alone library and not linked directly to other POSIX compliant libraries. For example, some functions and features, such as those based on POSIX signals, are missing.

Pthreads-win32 is a library, available in several different versions depending on supported compilers, and may be used as a dynamically linked module or a statically linked set of binary modules. It is not an application on its own.

It was fully intended that pthreads-win32 be usable with commercial software not covered by either the GPL or the LGPL licenses. Pthreads-win32 has many contributors to its code base, many of whom have done so because they have used the library in commercial or propriety software projects.

Releasing pthreads-win32 under the LGPL ensures that the library can be used widely, while at the same time ensures that bug fixes and improvements to the pthreads-win32 code itself is returned to benefit all current and future users of the library.
Although pthreads-win32 makes it possible for applications that use POSIX threads to be ported to Win32 platforms, the broader goal of the project is to encourage the use of open standards, and in particular, to make it just a little easier for developers writing Win32 applications to consider widening the potential market for their products.

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Version 2.1, February 1999

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1.18 common::sense 3.4

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1.23 dcc 1.2.58

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1.24 fpconst 0.7.2

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 */

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typedef uint16_t word;
typedef uint32_t dword;
typedef uint64_t qword;

typedef struct SMBiosTableEntry {
    byte anchorString[4];
    byte checksum;
    byte length;
    byte majorVersion;
    byte minorVersion;
    word maximumStructureSize;
    byte entryPointRevision;
    byte formattedArea[5];
}
byteDMIAnchorString[5];
byteintermediateChecksum;
wordstructureTableLength;
dwordstructureTableAddress;
wordnumberStructures;
byteBCDRevision;
} SMBiosTableEntry;

typedef struct StructureHeader {
  bytetype;
  bytelenlength;
  wordhandle;
} StructureHeader;

typedef struct BiosInformation {
  bytetype;
  bytelenlength;
  wordhandle;
  bytevendor;
  bytebiosVersion;
  wordbiosStartingAddressSegment;
  bytebiosReleaseDate;
  bytebiosROMSize;
  qwordbiosCharacteristics;
  bytebiosCharacteristicsExtension;
} BiosInformation;

typedef struct SystemInformation {
  bytetype;
  bytelenlength;
  wordhandle;
  bytemanufacturer;
  byteproductName;
  byteversion;
  byteserialNumber;
  byteuuid[16];
  bytewakeuptype;
} SystemInformation;

typedef struct SystemEnclosure {
  bytetype;
  bytelenlength;
  wordhandle;
  bytemanufacturer;
  byteenclosureType;
  byteversion;
  byteserialNumber;
  byteassetTag;
bytebootupState;
bytepowerSupplyState;
bytethermalState;
bytesecurityStatus;
dwordoem;
} SystemEnclosure;

typedef struct ProcessorInformation {
  byte type;
  byte length;
  dword handle;
  byte socketDesignation;
  byte processorType;
  byte processorFamily;
  byte processorManufacturer;
  qword processorID;
  byte processorVersion;
  byte voltage;
  word externalClock;
  word maxSpeed;
  word currentSpeed;
  byte status;
  byte processorUpgrade;
  word l1CacheHandle;
  word l2CacheHandle;
  word l3CacheHandle;
  byte serialNumber;
  byte assetTag;
} ProcessorInformation;

typedef struct CacheInformation {
  byte type;
  byte length;
  dword handle;
  byte socketDesignation;
  dword cacheConfiguration;
  dword maxCacheSize;
  dword installedSize;
  dword supportedSRAMSize;
  dword currentSRAMSize;
  byte cacheSpeed;
  byte errorCorrectionType;
  byte systemCacheType;
  byte associativity;
} __attribute__((packed)) CacheInformation;

typedef struct PortConnectorInformation {
  byte type;

typedef struct PortConnectorInformation {
    byte length;
    word handle;
    byte internalReference;
    byte internalType;
    byte externalReference;
    byte externalType;
    byte portType;
} PortConnectorInformation;

typedef struct SystemSlots {
    byte type;
    byte length;
    word handle;
    byte slotDesignation;
    byte slotType;
    byte slotDataBusWidth;
    byte currentUsage;
    byte slotLength;
    word slotID;
    byte slotCharacteristics1;
    byte slotCharacteristics2;
} SystemSlots;

typedef struct OEMStrings {
    byte type;
    byte length;
    word handle;
    byte count;
} OEMStrings;

typedef struct SystemConfigurationOptions {
    byte type;
    byte length;
    word handle;
    byte count;
} SystemConfigurationOptions;

typedef struct BIOSLanguageInformation {
    byte type;
    byte length;
    word handle;
    byte installableLanguages;
    byte flags;
    byte reserved[15];
    byte currentLanguage;
} BIOSLanguageInformation;

typedef struct PhysicalMemoryArray {

typedef struct MemoryDevice {
    bytetype;
    bytelenlength;
    wordwordhandle;
    bytelocation;
    byteuse;
    bytememoryErrorCorrections;
    dwordmaximumCapacity;
    wordmemoryErrorHandle;
    wordnumberMemoryDevices;
} PhysicalMemoryArray;

typedef struct MemoryDevice {
    bytetype;
    bytelenlength;
    wordwordhandle;
    wordmemoryArrayHandle;
    wordmemoryErrorHandle;
    wordtotalWidth;
    worddataWidth;
    wordsize;
    byteformFactor;
    bytedeviceSet;
    bytedeviceLocator;
    bytebankLocator;
    bytememoryType;
    wordtypeDetail;
    wordspeed;
    bytemanufacturer;
    byteserialNumber;
    byteassetTag;
    bytpartNumber;
} __attribute__((packed)) MemoryDevice;

typedef struct IPMIDevice {
    bytetype;
    bytelenlength;
    wordwordhandle;
    byteinterfaceType;
    bytespecRevision;
    bytei2cSlaveAddress;
    byteNVStorageDeviceAddress;
    qwordbaseAddress;
    bytebaseAddressModifier;
    byteinterruptNumber;
} IPMIDevice;

typedef struct GetIPMIinfo {
    intkcs_mode;
}
typedef struct IndexedIO {
    byte type;
    byte length;
    word handle;
    word index;
    word data;
    int reserved;
    byte startToken;
} IndexedIO;

typedef struct Token {
    word id;
    byte location;
    byte maskAnd;
    byte maskOr;
} __attribute__((packed)) Token;

#define TOKEN_NOOP 0x0000
#define TOKEN_REMOTE_BIOS_ENABLE 0x005c
#define TOKEN_REMOTE_BIOS_DISABLE 0x005d

typedef struct RemoteBIOSUpdate {
    byte type;
    byte length;
    word handle;
    word size;
    word completionCode;
    byte year;
    byte month;
    byte day;
    byte hour;
    byte minute;
} RemoteBIOSUpdate;

typedef struct RemoteBIOSStatus {
    char minVersion[4];
    char version[4];
    char vendor[1024];
    char manufacturer[1024];
    word systemid;
    byte enable;
    byte disable;
}
words size;
word completion code;
byte year;
byte month;
byte day;
byte hour;
byte minute;
} RemoteBIOSStatus;

extern void Unknownproc(byte *p, char **table);
extern void t0proc(byte *p, char **table);
extern void t0procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t1proc(byte *p, char **table);
extern void t1procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t3proc(byte *p, char **table);
extern void t4proc(byte *p, char **table);
extern void t7proc(byte *p, char **table);
extern void t8proc(byte *p, char **table);
extern void t9proc(byte *p, char **table);
extern void t10proc(byte *p, char **table);
extern void t11proc(byte *p, char **table);
extern void t11procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t12proc(byte *p, char **table);
extern void t13proc(byte *p, char **table);
extern void t16proc(byte *p, char **table);
extern void t17proc(byte *p, char **table);
extern void t18proc(byte *p, char **table);
extern void t19proc(byte *p, char **table);
extern void t20proc(byte *p, char **table);
extern void t38proc(byte *p, char **table);
extern void t38procInfo(byte *p, char **table, GetIPMIinfo *info);
extern void t126proc(byte *p, char **table);
extern void t127proc(byte *p, char **table);
extern void t212proc(byte *p, char **table); /* D4 */
extern void t212procStatus(byte *p, char **table, RemoteBIOSStatus *status);
extern void t222proc(byte *p, char **table); /* DE */
extern void t222procStatus(byte *p, char **table, RemoteBIOSStatus *status);

extern char *MapConnectorType(byte type);
extern char *MapPortType(byte type);
extern void VerboseDump(byte *p, char **table);
extern char *get_strings(char *p, char **table);
extern char *copy_string_trimmed(const char *s);
extern void init_table(void);
extern void dump_table(byte *p, int numentries);
extern void init_table_status(void);
extern void dump_table_status(byte *p, int numentries, 
    RemoteBIOSStatus *status);
extern void init_table_update_bios(void);
extern void init_table_get_ipmi(void);
extern void set_verbose(int value);

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From network_io/unix/inet_ntop.c, network_io/unix/inet_pton.c:

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From dso/aix/dso.c:

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From strings/apr_strnatcmp.c, include/apr_strings.h:

strnatcmp.c -- Perform 'natural order' comparisons of strings in C.
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From strings/apr_snprintf.c:

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* configure.ac, Makefile.am: The original versions were derived from the
ones in the XML Catalog Manager project, version 2.2.

Author: Julio Merino <jmmv@users.sourceforge.net>

* atf-c/ui.c: The format_paragraph and format_text functions were
derived from the ones in the Monotone project, revision
3a0982da308228d796df35f98d787c5cff2bb5b6.

Author: Julio Merino <jmmv@NetBSD.org>

* atf-c++/detail/io.hpp, atf-c++/detail/io.cpp, atf-c++/detail/io_test.cpp:
These files were derived from the file_handle, systembuf, pipe and pistream
classes and tests found in the Boost.Process library.

Author: Julio Merino <jmmv84@gmail.com>

* admin/check-style.sh, admin/check-style-common.awk,
admin/check-style-cpp.awk, admin/check-style-shell.awk: These files,
except the first one, were first implemented in the Buildtool project.
They were later adapted to be part of Boost.Process and, during that
process, the shell script was created.

Author: Julio Merino <jmmv84@gmail.com>

===========================================================================
vim: filetype=text:textwidth=75:expandtab:shiftwidth=2:softtabstop=2
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Julian Seward, jseward@bzip.org
bzip2/libbzip2 version 1.0.6 of 6 September 2010

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1.27 IPMItool 1.8.9

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1.28 jansson 2.5
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1.29 java-getopt 1.0.9
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1.30 json-c 0.9

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1.31 jzlib 1.0.7

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* Jean-loup Gailly(jloup@gzip.org) and Mark Adler(madler@alumni.caltech.edu)
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package com.jcraft.jzlib;

final class Adler32{

    // largest prime smaller than 65536
    static final private int BASE=65521;
    // NMAX is the largest n such that 255n(n+1)/2 + (n+1)(BASE-1) <= 2^32-1
    static final private int NMAX=5552;

    long adler32(long adler, byte[] buf, int index, int len){
        if(buf == null){ return 1L; }
        long s1=adler&0xffff;
        long s2=(adler>>16)&0xffff;
        int k;
        while(len > 0) {
            k=len<NMAX?len:NMAX;
            len-=k;
            while(k>=16){
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
                s1+=buf[index++]&0xff; s2+=s1;
            }
        }
    }
}
1.32 libarchive 3.1.2

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1.33 libev 4.03

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1.43 PAR::Packer 1.008

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1.44 Perl 5.8.9
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1.45 PostgreSQL 7.4.2

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1.46 protobuf 2.2.0

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1.47 python 2.6.4

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.
In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

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.. _history-and-license:

*******************
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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl/) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us/) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation; see http://www.zope.com/). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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Mersenne Twister

The :mod:`random` module includes code based on a download from http://www.math.keio.ac.jp/ matumoto/MT2002/emt19937ar.html. The following are the verbatim comments from the original code::

A C-program for MT19937, with initialization improved 2002/1/26. Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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Any feedback is very welcome.
http://www.math.keio.ac.jp/matumoto/emt.html
email: matumoto@math.keio.ac.jp

Sockets
------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`, and
:func:`getnameinfo`, which are coded in separate source files from the WIDE

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The source for the :mod:`fpectl` module includes the following notice::

---
MD5 message digest algorithm

The source code for the `mod:md5` module contains the following notice:

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L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at
http://www.ietf.org/rfc/rfc1321.txt
The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.
1999-11-04 lpd Edited comments slightly for automatic TOC extraction.
1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.
1999-05-03 lpd Original version.

Asynchronous socket services
---------------------------

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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:
- Use binascii module to do the actual line-by-line conversion
  between ascii and binary. This results in a 1000-fold speedup. The C
  version is still 5 times faster, though.
- Arguments more compliant with python standard

XML Remote Procedure Calls
---------------------------

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test_epoll

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Select kqueue

--------------

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schema/trex.py

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test/domapi/ (and test/test_pyxmldom.py)

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1.55 SOAPpy 0.12.0

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