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```
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```

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```

```
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1.4 dmalloc 5.5.2

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```
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 *
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 *
 * $Id: arg_check.c,v 1.40 2007/03/25 03:06:35 gray Exp $
 */
#!/usr/bin/perl5 -w
#
# dmalloc_summarize -- summarizes dmalloc log files
#
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#
# $Id: dmalloc_summarize.pl,v 1.1 1997/07/07 08:13:52 gray Exp $
#
```

1.5 Dropbear SSH server and client exmap

0.5.0

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=====

loginrec.c
loginrec.h
atomicio.h
atomicio.c

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*/

```

1.6 exmap 0.4.1

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```

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1.9 ipsec_tools 0.6.6

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he.c

ForeRunnerHE ATM Adapter driver for ATM on Linux
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This driver was written using the "Programmer's Reference Manual for
ForeRunnerHE(tm)", MANU0361-01 - Rev. A, 08/21/98.

AUTHORS:

chas williams <chas@cmf.nrl.navy.mil>

eric kinzie <ekinzie@cmf.nrl.navy.mil>

NOTES:

4096 supported 'connections'

group 0 is used for all traffic

interrupt queue 0 is used for all interrupts

aal0 support (based on work from ulrich.u.muller@nokia.com)

*/

/*

* Created: Wed Dec 13 21:52:19 2000 by garth@valinux.com

*

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*

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*/

/*

* csr1212.h -- IEEE 1212 Control and Status Register support for Linux

*

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* Steve Kinneberg <kinnebergsteve@acmsystems.com>

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*

* \$Id: cm.c 4311 2005-12-05 18:42:01Z sean.hefty \$

*/

/*

* HP i8042 SDC + MSM-58321 BBRTC driver.

*

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* References:

* System Device Controller Microprocessor Firmware Theory of Operation

* for Part Number 1820-4784 Revision B. Dwg No. A-1820-4784-2

* efirt.c by Stephane Eranian/Hewlett Packard

*

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*****
*
/*
* Product specific probe and attach routines for:
* 27/284X and aic7770 motherboard SCSI controllers

```

```

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*
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*
* $FreeBSD$
*/
/*+M*****
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*
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* driver written by Justin Gibbs. Please see his Copyright notice above

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 *

* Modifications made to the aic7xxx.c,v 4.1 driver from Dan Eischen include
 * but are not limited to:
 *

- * 1: Import of the latest FreeBSD sequencer code for this driver
- * 2: Modification of kernel code to accommodate different sequencer semantics
- * 3: Extensive changes throughout kernel portion of driver to improve
 * abort/reset processing and error handling
- * 4: Other work contributed by various people on the Internet
- * 5: Changes to printk information and verbosity selection code
- * 6: General reliability related changes, especially in IRQ management
- * 7: Modifications to the default probe/attach order for supported cards
- * 8: SMP friendliness has been improved

*

* Overall, this driver represents a significant departure from the official
 * aic7xxx driver released by Dan Eischen in two ways. First, in the code
 * itself. A diff between the two version of the driver is now a several
 * thousand line diff. Second, in approach to solving the same problem. The
 * problem is importing the FreeBSD aic7xxx driver code to linux can be a
 * difficult and time consuming process, that also can be error prone. Dan
 * Eischen's official driver uses the approach that the linux and FreeBSD
 * drivers should be as identical as possible. To that end, his next version
 * of this driver will be using a mid-layer code library that he is developing
 * to moderate communications between the linux mid-level SCSI code and the
 * low level FreeBSD driver. He intends to be able to essentially drop the
 * FreeBSD driver into the linux kernel with only a few minor tweaks to some
 * include files and the like and get things working, making for fast easy
 * imports of the FreeBSD code into linux.
 *

* I disagree with Dan's approach. Not that I don't think his way of doing
 * things would be nice, easy to maintain, and create a more uniform driver
 * between FreeBSD and Linux. I have no objection to those issues. My
 * disagreement is on the needed functionality. There simply are certain
 * things that are done differently in FreeBSD than linux that will cause
 * problems for this driver regardless of any middle ware Dan implements.
 * The biggest example of this at the moment is interrupt semantics. Linux
 * doesn't provide the same protection techniques as FreeBSD does, nor can
 * they be easily implemented in any middle ware code since they would truly
 * belong in the kernel proper and would effect all drivers. For the time
 * being, I see issues such as these as major stumbling blocks to the
 * reliability of code based upon such middle ware. Therefore, I choose to
 * use a different approach to importing the FreeBSD code that doesn't
 * involve any middle ware type code. My approach is to import the sequencer
 * code from FreeBSD wholesale. Then, to only make changes in the kernel
 * portion of the driver as they are needed for the new sequencer semantics.
 * In this way, the portion of the driver that speaks to the rest of the

```

* linux kernel is fairly static and can be changed/modified to solve
* any problems one might encounter without concern for the FreeBSD driver.
*
* Note: If time and experience should prove me wrong that the middle ware
* code Dan writes is reliable in its operation, then I'll retract my above
* statements. But, for those that don't know, I'm from Missouri (in the US)
* and our state motto is "The Show-Me State". Well, before I will put
* faith into it, you'll have to show me that it works :)
*
*_M*****
/*
* The next three defines are user configurable. These should be the only
* defines a user might need to get in here and change. There are other
* defines buried deeper in the code, but those really shouldn't need touched
* under normal conditions.
*/
/*
* file_storage.c -- File-backed USB Storage Gadget, for USB development
*
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* sisusb - usb kernel driver for SiS315(E) based USB2VGA dongles

*

* Main part

*

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1.14 mini_httpd - small HTTP server 1.19

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/* match.h - simple shell-style filename patcher

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1.15 mkimage 0.95

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* Documentation:

* [1] Intel Corporation, "3 Volt Intel Strata Flash Memory 28F128J3A, 28F640J3A,
* 28F320J3A (x8/x16)", April 2002, Order Number: 290667-011

* [2] Intel Corporation, "3 Volt Synchronous Intel Strata Flash Memory 28F640K3, 28F640K18,
* 28F128K3, 28F128K18, 28F256K3, 28F256K18 (x16)", June 2002, Order Number: 290737-005

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1.20 squashfs - a compressed fs for Linux 3.3

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```

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

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LZMA SDK 4.57

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LZMA SDK provides the documentation, samples, header files, libraries, and tools you need to develop applications that use LZMA compression.

LZMA is default and general compression method of 7z format in 7-Zip compression program (www.7-zip.org). LZMA provides high compression ratio and very fast decompression.

LZMA is an improved version of famous LZ77 compression algorithm. It was improved in way of maximum increasing of compression ratio, keeping high decompression speed and low memory requirements for decompressing.

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LZMA SDK Contents

LZMA SDK includes:

- C++ source code of LZMA compressing and decompressing
- ANSI-C compatible source code for LZMA decompressing
- C# source code for LZMA compressing and decompressing
- Java source code for LZMA compressing and decompressing
- Compiled file->file LZMA compressing/decompressing program for Windows system

ANSI-C LZMA decompression code was ported from original C++ sources to C. Also it was simplified and optimized for code size. But it is fully compatible with LZMA from 7-Zip.

UNIX/Linux version

To compile C++ version of file->file LZMA, go to directory C:/7zip/Compress/LZMA_Alone and type "make" or "make clean all" to recompile all.

In some UNIX/Linux versions you must compile LZMA with static libraries.

To compile with static libraries, change string in makefile

LIB = -lm

to string

LIB = -lm -static

Files

C - C source code
CPP - CPP source code
CS - C# source code
Java - Java source code
lzma.txt - LZMA SDK description (this file)
7zFormat.txt - 7z Format description
7zC.txt - 7z ANSI-C Decoder description (this file)
methods.txt - Compression method IDs for .7z
LGPL.txt - GNU Lesser General Public License
CPL.html - Common Public License
lzma.exe - Compiled file->file LZMA encoder/decoder for Windows
history.txt - history of the LZMA SDK

Source code structure

C - C files

Compress - files related to compression/decompression
Lz - files related to LZ (Lempel-Ziv) compression algorithm
Lzma - ANSI-C compatible LZMA decompressor

LzmaDecode.h - interface for LZMA decoding on ANSI-C
LzmaDecode.c - LZMA decoding on ANSI-C (new fastest version)
LzmaDecodeSize.c - LZMA decoding on ANSI-C (old size-optimized version)
LzmaTest.c - test application that decodes LZMA encoded file
LzmaTypes.h - basic types for LZMA Decoder
LzmaStateDecode.h - interface for LZMA decoding (State version)
LzmaStateDecode.c - LZMA decoding on ANSI-C (State version)
LzmaStateTest.c - test application (State version)

Branch - Filters for x86, IA-64, ARM, ARM-Thumb, PowerPC and SPARC code

Archive - files related to archiving
7z_C - 7z ANSI-C Decoder

CPP -- CPP files

Common - common files for C++ projects
Windows - common files for Windows related code
7zip - files related to 7-Zip Project

Common - common files for 7-Zip

Compress - files related to compression/decompression

LZ - files related to LZ (Lempel-Ziv) compression algorithm

Copy - Copy coder

RangeCoder - Range Coder (special code of compression/decompression)

LZMA - LZMA compression/decompression on C++

LZMA_Alone - file->file LZMA compression/decompression

Branch - Filters for x86, IA-64, ARM, ARM-Thumb, PowerPC and SPARC code

Archive - files related to archiving

Common - common files for archive handling

7z - 7z C++ Encoder/Decoder

Bundles - Modules that are bundles of other modules

Alone7z - 7zr.exe: Standalone version of 7z.exe that supports only 7z/LZMA/BCJ/BCJ2

Format7zR - 7zr.dll: Reduced version of 7za.dll: extracting/compressing to 7z/LZMA/BCJ/BCJ2

Format7zExtractR - 7zxr.dll: Reduced version of 7zxa.dll: extracting from 7z/LZMA/BCJ/BCJ2.

UI - User Interface files

Client7z - Test application for 7za.dll, 7zr.dll, 7zxr.dll

Common - Common UI files

Console - Code for console archiver

CS - C# files

7zip

Common - some common files for 7-Zip

Compress - files related to compression/decompression

LZ - files related to LZ (Lempel-Ziv) compression algorithm

LZMA - LZMA compression/decompression

LzmaAlone - file->file LZMA compression/decompression

RangeCoder - Range Coder (special code of compression/decompression)

Java - Java files

SevenZip

Compression - files related to compression/decompression

LZ - files related to LZ (Lempel-Ziv) compression algorithm

LZMA - LZMA compression/decompression

RangeCoder - Range Coder (special code of compression/decompression)

C/C++ source code of LZMA SDK is part of 7-Zip project.

You can find ANSI-C LZMA decompressing code at folder

C/7zip/Compress/Lzma

7-Zip doesn't use that ANSI-C LZMA code and that code was developed specially for this SDK. And files from C/7zip/Compress/Lzma do not need files from other directories of SDK for compiling.

7-Zip source code can be downloaded from 7-Zip's SourceForge page:

<http://sourceforge.net/projects/sevenzip/>

LZMA features

- Variable dictionary size (up to 1 GB)
- Estimated compressing speed: about 1 MB/s on 1 GHz CPU
- Estimated decompressing speed:
 - 8-12 MB/s on 1 GHz Intel Pentium 3 or AMD Athlon
 - 500-1000 KB/s on 100 MHz ARM, MIPS, PowerPC or other simple RISC
- Small memory requirements for decompressing (8-32 KB + DictionarySize)
- Small code size for decompressing: 2-8 KB (depending from speed optimizations)

LZMA decoder uses only integer operations and can be implemented in any modern 32-bit CPU (or on 16-bit CPU with some conditions).

Some critical operations that affect to speed of LZMA decompression:

- 1) 32*16 bit integer multiply
- 2) Misspredicted branches (penalty mostly depends from pipeline length)
- 3) 32-bit shift and arithmetic operations

Speed of LZMA decompressing mostly depends from CPU speed.

Memory speed has no big meaning. But if your CPU has small data cache, overall weight of memory speed will slightly increase.

How To Use

Using LZMA encoder/decoder executable

Usage: LZMA <e|d> inputFile outputFile [<switches>...]

e: encode file

d: decode file

b: Benchmark. There are two tests: compressing and decompressing

with LZMA method. Benchmark shows rating in MIPS (million instructions per second). Rating value is calculated from measured speed and it is normalized with AMD Athlon 64 X2 CPU results. Also Benchmark checks possible hardware errors (RAM errors in most cases). Benchmark uses these settings:

(-a1, -d21, -fb32, -mfbt4). You can change only -d. Also you can change number of iterations. Example for 30 iterations:

LZMA b 30

Default number of iterations is 10.

<Switches>

-a{N}: set compression mode 0 = fast, 1 = normal
default: 1 (normal)

d{N}: Sets Dictionary size - [0, 30], default: 23 (8MB)
The maximum value for dictionary size is 1 GB = 2^{30} bytes.
Dictionary size is calculated as $\text{DictionarySize} = 2^N$ bytes.
For decompressing file compressed by LZMA method with dictionary size $D = 2^N$ you need about D bytes of memory (RAM).

-fb{N}: set number of fast bytes - [5, 273], default: 128
Usually big number gives a little bit better compression ratio and slower compression process.

-lc{N}: set number of literal context bits - [0, 8], default: 3
Sometimes $lc=4$ gives gain for big files.

-lp{N}: set number of literal pos bits - [0, 4], default: 0
lp switch is intended for periodical data when period is equal 2^N . For example, for 32-bit (4 bytes) periodical data you can use $lp=2$. Often it's better to set $lc=0$, if you change lp switch.

-pb{N}: set number of pos bits - [0, 4], default: 2
pb switch is intended for periodical data when period is equal 2^N .

-mf{MF_ID}: set Match Finder. Default: bt4.
Algorithms from hc* group doesn't provide good compression ratio, but they often works pretty fast in combination with fast mode (-a0).

Memory requirements depend from dictionary size (parameter "d" in table below).

MF_ID	Memory	Description
-------	--------	-------------

bt2 d * 9.5 + 4MB Binary Tree with 2 bytes hashing.
bt3 d * 11.5 + 4MB Binary Tree with 3 bytes hashing.
bt4 d * 11.5 + 4MB Binary Tree with 4 bytes hashing.
hc4 d * 7.5 + 4MB Hash Chain with 4 bytes hashing.

-eos: write End Of Stream marker. By default LZMA doesn't write eos marker, since LZMA decoder knows uncompressed size stored in .lzma file header.

-si: Read data from stdin (it will write End Of Stream marker).

-so: Write data to stdout

Examples:

1) LZMA e file.bin file.lzma -d16 -lc0

compresses file.bin to file.lzma with 64 KB dictionary ($2^{16}=64K$) and 0 literal context bits. -lc0 allows to reduce memory requirements for decompression.

2) LZMA e file.bin file.lzma -lc0 -lp2

compresses file.bin to file.lzma with settings suitable for 32-bit periodical data (for example, ARM or MIPS code).

3) LZMA d file.lzma file.bin

decompresses file.lzma to file.bin.

Compression ratio hints

Recommendations

To increase compression ratio for LZMA compressing it's desirable to have aligned data (if it's possible) and also it's desirable to locate data in such order, where code is grouped in one place and data is grouped in other place (it's better than such mixing: code, data, code, data, ...).

Using Filters

You can increase compression ratio for some data types, using special filters before compressing. For example, it's possible to increase compression ratio on 5-10% for code for those CPU ISAs: x86, IA-64, ARM, ARM-Thumb, PowerPC, SPARC.

You can find C/C++ source code of such filters in folder "7zip/Compress/Branch"

You can check compression ratio gain of these filters with such 7-Zip commands (example for ARM code):

No filter:

```
7z a a1.7z a.bin -m0=lzma
```

With filter for little-endian ARM code:

```
7z a a2.7z a.bin -m0=bc_arm -m1=lzma
```

With filter for big-endian ARM code (using additional Swap4 filter):

```
7z a a3.7z a.bin -m0=swap4 -m1=bc_arm -m2=lzma
```

It works in such manner:

Compressing = Filter_encoding + LZMA_encoding

Decompressing = LZMA_decoding + Filter_decoding

Compressing and decompressing speed of such filters is very high, so it will not increase decompressing time too much.

Moreover, it reduces decompression time for LZMA_decoding, since compression ratio with filtering is higher.

These filters convert CALL (calling procedure) instructions from relative offsets to absolute addresses, so such data becomes more compressible. Source code of these CALL filters is pretty simple (about 20 lines of C++), so you can convert it from C++ version yourself.

For some ISAs (for example, for MIPS) it's impossible to get gain from such filter.

LZMA compressed file format

Offset Size Description

0	1	Special LZMA properties for compressed data
1	4	Dictionary size (little endian)
5	8	Uncompressed size (little endian). -1 means unknown size
13		Compressed data

ANSI-C LZMA Decoder

~~~~~

To compile ANSI-C LZMA Decoder you can use one of the following files sets:

- 1) LzmaDecode.h + LzmaDecode.c + LzmaTest.c (fastest version)
- 2) LzmaDecode.h + LzmaDecodeSize.c + LzmaTest.c (old size-optimized version)
- 3) LzmaStateDecode.h + LzmaStateDecode.c + LzmaStateTest.c (zlib-like interface)

#### Memory requirements for LZMA decoding

-----

LZMA decoder doesn't allocate memory itself, so you must allocate memory and send it to LZMA.

Stack usage of LZMA decoding function for local variables is not larger than 200 bytes.

#### How To decompress data

-----

LZMA Decoder (ANSI-C version) now supports 5 interfaces:

- 1) Single-call Decompressing
- 2) Single-call Decompressing with input stream callback
- 3) Multi-call Decompressing with output buffer
- 4) Multi-call Decompressing with input callback and output buffer
- 5) Multi-call State Decompressing (zlib-like interface)

Variant-5 is similar to Variant-4, but Variant-5 doesn't use callback functions.

#### Decompressing steps

-----

- 1) read LZMA properties (5 bytes):

```
unsigned char properties[LZMA_PROPERTIES_SIZE];
```

- 2) read uncompressed size (8 bytes, little-endian)

- 3) Decode properties:

```
CLzmaDecoderState state; /* it's 24-140 bytes structure, if int is 32-bit */
```

```
if (LzmaDecodeProperties(&state.Properties, properties, LZMA_PROPERTIES_SIZE) != LZMA_RESULT_OK)
    return PrintError(rs, "Incorrect stream properties");
```

- 4) Allocate memory block for internal Structures:

```
state.Probs = (CProb *)malloc(LzmaGetNumProbs(&state.Properties) * sizeof(CProb));
if (state.Probs == 0)
    return PrintError(rs, kCantAllocateMessage);
```

LZMA decoder uses array of CProb variables as internal structure.

By default, CProb is unsigned\_short. But you can define \_LZMA\_PROB32 to make it unsigned\_int. It can increase speed on some 32-bit CPUs, but memory usage will be doubled in that case.

## 5) Main Decompressing

You must use one of the following interfaces:

### 5.1 Single-call Decompressing

-----

When to use: RAM->RAM decompressing

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: no defines

Memory Requirements:

- Input buffer: compressed size
- Output buffer: uncompressed size
- LZMA Internal Structures (~16 KB for default settings)

Interface:

```
int res = LzmaDecode(&state,  
    inStream, compressedSize, &inProcessed,  
    outStream, outSize, &outProcessed);
```

### 5.2 Single-call Decompressing with input stream callback

-----

When to use: File->RAM or Flash->RAM decompressing.

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: \_LZMA\_IN\_CB

Memory Requirements:

- Buffer for input stream: any size (for example, 16 KB)
- Output buffer: uncompressed size
- LZMA Internal Structures (~16 KB for default settings)

Interface:

```
typedef struct _CBuffer  
{  
    ILzmaInCallback InCallback;  
    FILE *File;  
    unsigned char Buffer[kInBufferSize];  
} CBuffer;
```

```
int LzmaReadCompressed(void *object, const unsigned char **buffer, SizeT *size)  
{  
    CBuffer *bo = (CBuffer *)object;  
    *buffer = bo->Buffer;  
    *size = MyReadFile(bo->File, bo->Buffer, kInBufferSize);  
}
```

```

return LZMA_RESULT_OK;
}

```

```

CBuffer g_InBuffer;

```

```

g_InBuffer.File = inFile;
g_InBuffer.InCallback.Read = LzmaReadCompressed;
int res = LzmaDecode(&state,
    &g_InBuffer.InCallback,
    outputStream, outSize, &outProcessed);

```

### 5.3 Multi-call decompressing with output buffer

-----

When to use: RAM->File decompressing

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: `_LZMA_OUT_READ`

Memory Requirements:

- Input buffer: compressed size
- Buffer for output stream: any size (for example, 16 KB)
- LZMA Internal Structures (~16 KB for default settings)
- LZMA dictionary (dictionary size is encoded in stream properties)

Interface:

```

state.Dictionary = (unsigned char *)malloc(state.Properties.DictionarySize);

```

```

LzmaDecoderInit(&state);
do
{
    LzmaDecode(&state,
        inBuffer, inAvail, &inProcessed,
        g_OutBuffer, outAvail, &outProcessed);
    inAvail -= inProcessed;
    inBuffer += inProcessed;
}

```

while you need more bytes

see LzmaTest.c for more details.

### 5.4 Multi-call decompressing with input callback and output buffer

-----

When to use: File->File decompressing

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: `_LZMA_IN_CB, _LZMA_OUT_READ`

Memory Requirements:

- Buffer for input stream: any size (for example, 16 KB)

- Buffer for output stream: any size (for example, 16 KB)
- LZMA Internal Structures (~16 KB for default settings)
- LZMA dictionary (dictionary size is encoded in stream properties)

Interface:

```
state.Dictionary = (unsigned char *)malloc(state.Properties.DictionarySize);
```

```
LzmaDecoderInit(&state);
do
{
    LzmaDecode(&state,
        &bo.InCallback,
        g_OutBuffer, outAvail, &outProcessed);
}
while you need more bytes
```

see LzmaTest.c for more details:

### 5.5 Multi-call State Decompressing (zlib-like interface)

When to use: file->file decompressing

Compile files: LzmaStateDecode.h, LzmaStateDecode.c

Compile defines:

Memory Requirements:

- Buffer for input stream: any size (for example, 16 KB)
- Buffer for output stream: any size (for example, 16 KB)
- LZMA Internal Structures (~16 KB for default settings)
- LZMA dictionary (dictionary size is encoded in stream properties)

Interface:

```
state.Dictionary = (unsigned char *)malloc(state.Properties.DictionarySize);
```

```
LzmaDecoderInit(&state);
do
{
    res = LzmaDecode(&state,
        inBuffer, inAvail, &inProcessed,
        g_OutBuffer, outAvail, &outProcessed,
        finishDecoding);
    inAvail -= inProcessed;
    inBuffer += inProcessed;
}
while you need more bytes
```

see LzmaStateTest.c for more details:

6) Free all allocated blocks

Note

----

LzmaDecodeSize.c is size-optimized version of LzmaDecode.c.  
But compiled code of LzmaDecodeSize.c can be larger than  
compiled code of LzmaDecode.c. So it's better to use  
LzmaDecode.c in most cases.

EXIT codes

-----

LZMA decoder can return one of the following codes:

```
#define LZMA_RESULT_OK 0
#define LZMA_RESULT_DATA_ERROR 1
```

If you use callback function for input data and you return some  
error code, LZMA Decoder also returns that code.

LZMA Defines

-----

`_LZMA_IN_CB` - Use callback for input data

`_LZMA_OUT_READ` - Use read function for output data

`_LZMA_LOC_OPT` - Enable local speed optimizations inside code.

`_LZMA_LOC_OPT` is only for LzmaDecodeSize.c (size-optimized version).

`_LZMA_LOC_OPT` doesn't affect LzmaDecode.c (speed-optimized version)  
and LzmaStateDecode.c

`_LZMA_PROB32` - It can increase speed on some 32-bit CPUs,  
but memory usage will be doubled in that case

`_LZMA_UINT32_IS_ULONG` - Define it if int is 16-bit on your compiler  
and long is 32-bit.

`_LZMA_SYSTEM_SIZE_T` - Define it if you want to use system's `size_t`.  
You can use it to enable 64-bit sizes supporting

C++ LZMA Encoder/Decoder

~~~~~

C++ LZMA code use COM-like interfaces. So if you want to use it, you can study basics of COM/OLE.

By default, LZMA Encoder contains all Match Finders.
But for compressing it's enough to have just one of them.
So for reducing size of compressing code you can define:
#define COMPRESS_MF_BT
#define COMPRESS_MF_BT4
and it will use only bt4 match finder.

<http://www.7-zip.org>

<http://www.7-zip.org/support.html>

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Version 2.1, February 1999

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1.21 squashfs - a compressed fs for Linux LZMA part 3.3

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LZMA SDK 4.57

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LZMA SDK provides the documentation, samples, header files, libraries, and tools you need to develop applications that use LZMA compression.

LZMA is default and general compression method of 7z format in 7-Zip compression program (www.7-zip.org). LZMA provides high compression ratio and very fast decompression.

LZMA is an improved version of famous LZ77 compression algorithm. It was improved in way of maximum increasing of compression ratio, keeping high decompression speed and low memory requirements for decompressing.

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LZMA SDK Contents

LZMA SDK includes:

- C++ source code of LZMA compressing and decompressing
- ANSI-C compatible source code for LZMA decompressing
- C# source code for LZMA compressing and decompressing
- Java source code for LZMA compressing and decompressing
- Compiled file->file LZMA compressing/decompressing program for Windows system

ANSI-C LZMA decompression code was ported from original C++ sources to C.

Also it was simplified and optimized for code size.

But it is fully compatible with LZMA from 7-Zip.

UNIX/Linux version

To compile C++ version of file->file LZMA, go to directory

C/7zip/Compress/LZMA_Alone

and type "make" or "make clean all" to recompile all.

In some UNIX/Linux versions you must compile LZMA with static libraries.

To compile with static libraries, change string in makefile

LIB = -lm

to string

LIB = -lm -static

Files

C - C source code
CPP - CPP source code
CS - C# source code
Java - Java source code
lzma.txt - LZMA SDK description (this file)
7zFormat.txt - 7z Format description
7zC.txt - 7z ANSI-C Decoder description (this file)
methods.txt - Compression method IDs for .7z
LGPL.txt - GNU Lesser General Public License
CPL.html - Common Public License
lzma.exe - Compiled file->file LZMA encoder/decoder for Windows
history.txt - history of the LZMA SDK

Source code structure

C - C files

Compress - files related to compression/decompression
Lz - files related to LZ (Lempel-Ziv) compression algorithm
Lzma - ANSI-C compatible LZMA decompressor

LzmaDecode.h - interface for LZMA decoding on ANSI-C
LzmaDecode.c - LZMA decoding on ANSI-C (new fastest version)
LzmaDecodeSize.c - LZMA decoding on ANSI-C (old size-optimized version)
LzmaTest.c - test application that decodes LZMA encoded file
LzmaTypes.h - basic types for LZMA Decoder
LzmaStateDecode.h - interface for LZMA decoding (State version)
LzmaStateDecode.c - LZMA decoding on ANSI-C (State version)
LzmaStateTest.c - test application (State version)

Branch - Filters for x86, IA-64, ARM, ARM-Thumb, PowerPC and SPARC code

Archive - files related to archiving
7z_C - 7z ANSI-C Decoder

CPP -- CPP files

Common - common files for C++ projects
Windows - common files for Windows related code
7zip - files related to 7-Zip Project

Common - common files for 7-Zip

Compress - files related to compression/decompression

LZ - files related to LZ (Lempel-Ziv) compression algorithm

Copy - Copy coder

RangeCoder - Range Coder (special code of compression/decompression)

LZMA - LZMA compression/decompression on C++

LZMA_Alone - file->file LZMA compression/decompression

Branch - Filters for x86, IA-64, ARM, ARM-Thumb, PowerPC and SPARC code

Archive - files related to archiving

Common - common files for archive handling

7z - 7z C++ Encoder/Decoder

Bundles - Modules that are bundles of other modules

Alone7z - 7zr.exe: Standalone version of 7z.exe that supports only 7z/LZMA/BCJ/BCJ2

Format7zR - 7zr.dll: Reduced version of 7za.dll: extracting/compressing to 7z/LZMA/BCJ/BCJ2

Format7zExtractR - 7zxr.dll: Reduced version of 7zxa.dll: extracting from 7z/LZMA/BCJ/BCJ2.

UI - User Interface files

Client7z - Test application for 7za.dll, 7zr.dll, 7zxr.dll

Common - Common UI files

Console - Code for console archiver

CS - C# files

7zip

Common - some common files for 7-Zip

Compress - files related to compression/decompression

LZ - files related to LZ (Lempel-Ziv) compression algorithm

LZMA - LZMA compression/decompression

LzmaAlone - file->file LZMA compression/decompression

RangeCoder - Range Coder (special code of compression/decompression)

Java - Java files

SevenZip

Compression - files related to compression/decompression

LZ - files related to LZ (Lempel-Ziv) compression algorithm

LZMA - LZMA compression/decompression

RangeCoder - Range Coder (special code of compression/decompression)

C/C++ source code of LZMA SDK is part of 7-Zip project.

You can find ANSI-C LZMA decompressing code at folder

C/7zip/Compress/Lzma

7-Zip doesn't use that ANSI-C LZMA code and that code was developed specially for this SDK. And files from C/7zip/Compress/Lzma do not need files from other directories of SDK for compiling.

7-Zip source code can be downloaded from 7-Zip's SourceForge page:

<http://sourceforge.net/projects/sevenzzip/>

LZMA features

- Variable dictionary size (up to 1 GB)
- Estimated compressing speed: about 1 MB/s on 1 GHz CPU
- Estimated decompressing speed:
 - 8-12 MB/s on 1 GHz Intel Pentium 3 or AMD Athlon
 - 500-1000 KB/s on 100 MHz ARM, MIPS, PowerPC or other simple RISC
- Small memory requirements for decompressing (8-32 KB + DictionarySize)
- Small code size for decompressing: 2-8 KB (depending from speed optimizations)

LZMA decoder uses only integer operations and can be implemented in any modern 32-bit CPU (or on 16-bit CPU with some conditions).

Some critical operations that affect to speed of LZMA decompression:

- 1) 32*16 bit integer multiply
- 2) Misspredicted branches (penalty mostly depends from pipeline length)
- 3) 32-bit shift and arithmetic operations

Speed of LZMA decompressing mostly depends from CPU speed. Memory speed has no big meaning. But if your CPU has small data cache, overall weight of memory speed will slightly increase.

How To Use

Using LZMA encoder/decoder executable

Usage: LZMA <e|d> inputFile outputFile [<switches>...]

e: encode file

d: decode file

b: Benchmark. There are two tests: compressing and decompressing with LZMA method. Benchmark shows rating in MIPS (million

instructions per second). Rating value is calculated from measured speed and it is normalized with AMD Athlon 64 X2 CPU results. Also Benchmark checks possible hardware errors (RAM errors in most cases). Benchmark uses these settings:

(-a1, -d21, -fb32, -mfbt4). You can change only -d. Also you can change number of iterations. Example for 30 iterations:

```
LZMA b 30
```

Default number of iterations is 10.

<Switches>

-a{N}: set compression mode 0 = fast, 1 = normal
default: 1 (normal)

d{N}: Sets Dictionary size - [0, 30], default: 23 (8MB)
The maximum value for dictionary size is 1 GB = 2^{30} bytes.
Dictionary size is calculated as $\text{DictionarySize} = 2^N$ bytes.
For decompressing file compressed by LZMA method with dictionary size $D = 2^N$ you need about D bytes of memory (RAM).

-fb{N}: set number of fast bytes - [5, 273], default: 128
Usually big number gives a little bit better compression ratio and slower compression process.

-lc{N}: set number of literal context bits - [0, 8], default: 3
Sometimes $lc=4$ gives gain for big files.

-lp{N}: set number of literal pos bits - [0, 4], default: 0
lp switch is intended for periodical data when period is equal 2^N . For example, for 32-bit (4 bytes) periodical data you can use $lp=2$. Often it's better to set $lc0$, if you change lp switch.

-pb{N}: set number of pos bits - [0, 4], default: 2
pb switch is intended for periodical data when period is equal 2^N .

-mf{MF_ID}: set Match Finder. Default: bt4.
Algorithms from hc* group doesn't provide good compression ratio, but they often works pretty fast in combination with fast mode (-a0).

Memory requirements depend from dictionary size (parameter "d" in table below).

MF_ID	Memory	Description
-------	--------	-------------

bt2 d * 9.5 + 4MB Binary Tree with 2 bytes hashing.
bt3 d * 11.5 + 4MB Binary Tree with 3 bytes hashing.
bt4 d * 11.5 + 4MB Binary Tree with 4 bytes hashing.
hc4 d * 7.5 + 4MB Hash Chain with 4 bytes hashing.

-eos: write End Of Stream marker. By default LZMA doesn't write eos marker, since LZMA decoder knows uncompressed size stored in .lzma file header.

-si: Read data from stdin (it will write End Of Stream marker).

-so: Write data to stdout

Examples:

1) LZMA e file.bin file.lzma -d16 -lc0

compresses file.bin to file.lzma with 64 KB dictionary ($2^{16}=64K$) and 0 literal context bits. -lc0 allows to reduce memory requirements for decompression.

2) LZMA e file.bin file.lzma -lc0 -lp2

compresses file.bin to file.lzma with settings suitable for 32-bit periodical data (for example, ARM or MIPS code).

3) LZMA d file.lzma file.bin

decompresses file.lzma to file.bin.

Compression ratio hints

Recommendations

To increase compression ratio for LZMA compressing it's desirable to have aligned data (if it's possible) and also it's desirable to locate data in such order, where code is grouped in one place and data is grouped in other place (it's better than such mixing: code, data, code, data, ...).

Using Filters

You can increase compression ratio for some data types, using

special filters before compressing. For example, it's possible to increase compression ratio on 5-10% for code for those CPU ISAs: x86, IA-64, ARM, ARM-Thumb, PowerPC, SPARC.

You can find C/C++ source code of such filters in folder "7zip/Compress/Branch"

You can check compression ratio gain of these filters with such 7-Zip commands (example for ARM code):

No filter:

```
7z a a1.7z a.bin -m0=lzma
```

With filter for little-endian ARM code:

```
7z a a2.7z a.bin -m0=bc_arm -m1=lzma
```

With filter for big-endian ARM code (using additional Swap4 filter):

```
7z a a3.7z a.bin -m0=swap4 -m1=bc_arm -m2=lzma
```

It works in such manner:

Compressing = Filter_encoding + LZMA_encoding

Decompressing = LZMA_decoding + Filter_decoding

Compressing and decompressing speed of such filters is very high, so it will not increase decompressing time too much.

Moreover, it reduces decompression time for LZMA_decoding, since compression ratio with filtering is higher.

These filters convert CALL (calling procedure) instructions from relative offsets to absolute addresses, so such data becomes more compressible. Source code of these CALL filters is pretty simple (about 20 lines of C++), so you can convert it from C++ version yourself.

For some ISAs (for example, for MIPS) it's impossible to get gain from such filter.

LZMA compressed file format

Offset Size Description

0	1	Special LZMA properties for compressed data
1	4	Dictionary size (little endian)
5	8	Uncompressed size (little endian). -1 means unknown size
13		Compressed data

ANSI-C LZMA Decoder

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To compile ANSI-C LZMA Decoder you can use one of the following files sets:

1) LzmaDecode.h + LzmaDecode.c + LzmaTest.c (fastest version)

- 2) LzmaDecode.h + LzmaDecodeSize.c + LzmaTest.c (old size-optimized version)
- 3) LzmaStateDecode.h + LzmaStateDecode.c + LzmaStateTest.c (zlib-like interface)

#### Memory requirements for LZMA decoding

-----

LZMA decoder doesn't allocate memory itself, so you must allocate memory and send it to LZMA.

Stack usage of LZMA decoding function for local variables is not larger than 200 bytes.

#### How To decompress data

-----

LZMA Decoder (ANSI-C version) now supports 5 interfaces:

- 1) Single-call Decompressing
- 2) Single-call Decompressing with input stream callback
- 3) Multi-call Decompressing with output buffer
- 4) Multi-call Decompressing with input callback and output buffer
- 5) Multi-call State Decompressing (zlib-like interface)

Variant-5 is similar to Variant-4, but Variant-5 doesn't use callback functions.

#### Decompressing steps

-----

1) read LZMA properties (5 bytes):  
 unsigned char properties[LZMA\_PROPERTIES\_SIZE];

2) read uncompressed size (8 bytes, little-endian)

3) Decode properties:

```
CLzmaDecoderState state; /* it's 24-140 bytes structure, if int is 32-bit */
```

```
if (LzmaDecodeProperties(&state.Properties, properties, LZMA_PROPERTIES_SIZE) != LZMA_RESULT_OK)
  return PrintError(rs, "Incorrect stream properties");
```

4) Allocate memory block for internal Structures:

```
state.Probs = (CProb *)malloc(LzmaGetNumProbs(&state.Properties) * sizeof(CProb));
if (state.Probs == 0)
  return PrintError(rs, kCantAllocateMessage);
```

LZMA decoder uses array of CProb variables as internal structure.

By default, CProb is unsigned\_short. But you can define \_LZMA\_PROB32 to make

it unsigned\_int. It can increase speed on some 32-bit CPUs, but memory usage will be doubled in that case.

## 5) Main Decompressing

You must use one of the following interfaces:

### 5.1 Single-call Decompressing

-----

When to use: RAM->RAM decompressing

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: no defines

Memory Requirements:

- Input buffer: compressed size
- Output buffer: uncompressed size
- LZMA Internal Structures (~16 KB for default settings)

Interface:

```
int res = LzmaDecode(&state,  
    inStream, compressedSize, &inProcessed,  
    outStream, outSize, &outProcessed);
```

### 5.2 Single-call Decompressing with input stream callback

-----

When to use: File->RAM or Flash->RAM decompressing.

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: \_LZMA\_IN\_CB

Memory Requirements:

- Buffer for input stream: any size (for example, 16 KB)
- Output buffer: uncompressed size
- LZMA Internal Structures (~16 KB for default settings)

Interface:

```
typedef struct _CBuffer  
{  
    ILzmaInCallback InCallback;  
    FILE *File;  
    unsigned char Buffer[kInBufferSize];  
} CBuffer;
```

```
int LzmaReadCompressed(void *object, const unsigned char **buffer, SizeT *size)  
{  
    CBuffer *bo = (CBuffer *)object;  
    *buffer = bo->Buffer;  
    *size = MyReadFile(bo->File, bo->Buffer, kInBufferSize);  
    return LZMA_RESULT_OK;
```

```
}
```

```
CBuffer g_InBuffer;
```

```
g_InBuffer.File = inFile;  
g_InBuffer.InCallback.Read = LzmaReadCompressed;  
int res = LzmaDecode(&state,  
    &g_InBuffer.InCallback,  
    outStream, outSize, &outProcessed);
```

### 5.3 Multi-call decompressing with output buffer

-----  
When to use: RAM->File decompressing

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: \_LZMA\_OUT\_READ

Memory Requirements:

- Input buffer: compressed size
- Buffer for output stream: any size (for example, 16 KB)
- LZMA Internal Structures (~16 KB for default settings)
- LZMA dictionary (dictionary size is encoded in stream properties)

Interface:

```
state.Dictionary = (unsigned char *)malloc(state.Properties.DictionarySize);
```

```
LzmaDecoderInit(&state);  
do  
{  
    LzmaDecode(&state,  
        inBuffer, inAvail, &inProcessed,  
        g_OutBuffer, outAvail, &outProcessed);  
    inAvail -= inProcessed;  
    inBuffer += inProcessed;  
}  
while you need more bytes
```

see LzmaTest.c for more details.

### 5.4 Multi-call decompressing with input callback and output buffer

-----  
When to use: File->File decompressing

Compile files: LzmaDecode.h, LzmaDecode.c

Compile defines: \_LZMA\_IN\_CB, \_LZMA\_OUT\_READ

Memory Requirements:

- Buffer for input stream: any size (for example, 16 KB)
- Buffer for output stream: any size (for example, 16 KB)

- LZMA Internal Structures (~16 KB for default settings)
- LZMA dictionary (dictionary size is encoded in stream properties)

Interface:

```
state.Dictionary = (unsigned char *)malloc(state.Properties.DictionarySize);
```

```
LzmaDecoderInit(&state);
do
{
    LzmaDecode(&state,
        &bo.InCallback,
        g_OutBuffer, outAvail, &outProcessed);
}
while you need more bytes
```

see LzmaTest.c for more details:

### 5.5 Multi-call State Decompressing (zlib-like interface)

-----  
When to use: file->file decompressing

Compile files: LzmaStateDecode.h, LzmaStateDecode.c

Compile defines:

Memory Requirements:

- Buffer for input stream: any size (for example, 16 KB)
- Buffer for output stream: any size (for example, 16 KB)
- LZMA Internal Structures (~16 KB for default settings)
- LZMA dictionary (dictionary size is encoded in stream properties)

Interface:

```
state.Dictionary = (unsigned char *)malloc(state.Properties.DictionarySize);
```

```
LzmaDecoderInit(&state);
do
{
    res = LzmaDecode(&state,
        inBuffer, inAvail, &inProcessed,
        g_OutBuffer, outAvail, &outProcessed,
        finishDecoding);
    inAvail -= inProcessed;
    inBuffer += inProcessed;
}
while you need more bytes
```

see LzmaStateTest.c for more details:

## 6) Free all allocated blocks

Note

----

LzmaDecodeSize.c is size-optimized version of LzmaDecode.c.  
But compiled code of LzmaDecodeSize.c can be larger than  
compiled code of LzmaDecode.c. So it's better to use  
LzmaDecode.c in most cases.

EXIT codes

-----

LZMA decoder can return one of the following codes:

```
#define LZMA_RESULT_OK 0
#define LZMA_RESULT_DATA_ERROR 1
```

If you use callback function for input data and you return some  
error code, LZMA Decoder also returns that code.

LZMA Defines

-----

`_LZMA_IN_CB` - Use callback for input data

`_LZMA_OUT_READ` - Use read function for output data

`_LZMA_LOC_OPT` - Enable local speed optimizations inside code.

`_LZMA_LOC_OPT` is only for LzmaDecodeSize.c (size-optimized version).

`_LZMA_LOC_OPT` doesn't affect LzmaDecode.c (speed-optimized version)  
and LzmaStateDecode.c

`_LZMA_PROB32` - It can increase speed on some 32-bit CPUs,  
but memory usage will be doubled in that case

`_LZMA_UINT32_IS_ULONG` - Define it if int is 16-bit on your compiler  
and long is 32-bit.

`_LZMA_SYSTEM_SIZE_T` - Define it if you want to use system's size\_t.  
You can use it to enable 64-bit sizes supporting

## C++ LZMA Encoder/Decoder

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C++ LZMA code use COM-like interfaces. So if you want to use it, you can study basics of COM/OLE.

By default, LZMA Encoder contains all Match Finders.
But for compressing it's enough to have just one of them.
So for reducing size of compressing code you can define:

```
#define COMPRESS_MF_BT  
#define COMPRESS_MF_BT4
```

and it will use only bt4 match finder.

<http://www.7-zip.org>

<http://www.7-zip.org/support.html>

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1.22 syslogd 1.4.1-usagi

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```

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//
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// setsockopt(SO_BINDTODEVICE)
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Version 2, June 1991

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```
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*/

/*-----

// Copyright 2007, Texas Instruments Incorporated

//

// This program has been modified from its original operation by Texas Instruments

// to do the following:

//

// 1. To support interface biding:

// -f_interface and f_socket members to struct filed

// -create_inet_socket updated to take interface parameter and call

// setsockopt(SO_BINDTODEVICE)

// -fprintlog will sendto f_socket if valid

// -cflines parses ^ char

//

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1.24 uClibc - A C Library for Embedded Linux

0.9.29

1.24.1 Available under license :

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Version 2.1, February 1999

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* libc/string/sh64/strlen.S
*
* Simplistic strlen() implementation for SHmedia.
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* =====
*/
/*****
*
* File ceilfloor.c, *
* Function ceil(x) and floor(x), *
* Implementation of ceil and floor for the PowerPC. *
* *
* Copyright 1991 Apple Computer, Inc. All rights reserved. *
* *
* Written by Ali Sazegari, started on November 1991, *
* *
* based on math.h, library code for Macintoshes with a 68881/68882 *
* by Jim Thomas. *
* *
* W A R N I N G: This routine expects a 64 bit double model. *
* *
* December 03 1992: first rs6000 port. *
* July 14 1993: comment changes and addition of #pragma fenv_access. *

```

```

* May 06 1997: port of the ibm/taligent ceil and floor routines. *
* April 11 2001: first port to os x using gcc. *
* June 13 2001: replaced __setflm with in-line assembly *
*
*****/
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*
* 2005/09/16: Dan Howell (modified for cross-development)
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1.27 UML StateWizard 07.05.26

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1.28 utelnetd 0.1.2

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1.29 wide-dhcpv6 1.0

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// Made changes to the code at various places to add plugin hooks
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#include <stdio.h>
```

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