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Contents

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THE GNU MP LIBRARY

GNU MP is a library for arbitrary precision arithmetic, operating on signed integers, rational numbers, and floating point numbers. It has a rich set of functions, and the functions have a regular interface.

GNU MP is designed to be as fast as possible, both for small operands and huge operands. The speed is achieved by using fullwords as the basic arithmetic type, by using fast algorithms, with carefully optimized assembly code for the most common inner loops for lots of CPUs, and by a general emphasis on speed (instead of simplicity or elegance).

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OVERVIEW OF GNU MP

There are five classes of functions in GNU MP.

- Signed integer arithmetic functions (mpz). These functions are intended to be easy to use, with their regular interface. The associated type is `mpz_t`.
- Rational arithmetic functions (mpq). For now, just a small set of functions necessary for basic rational arithmetics. The associated type is `mpq_t`.
- Floating-point arithmetic functions (mpf). If the C type `double' doesn't give enough precision for your application, declare your variables as `mpf_t' instead, set the precision to any number desired, and call the functions in the mpf class for the arithmetic operations.
- Positive-integer, hard-to-use, very low overhead functions are in the mpn class. No memory management is performed. The caller must ensure enough space is available for the results. The set of functions is not regular, nor is the calling interface. These functions accept input arguments in the form of pairs consisting of a pointer to the least significant word, and an integral size telling how many limbs (= words) the pointer points to. Almost all calculations, in the entire package, are made by calling these low-level functions.
- Berkeley MP compatible functions. To use these functions, include the file "mp.h". You can test if you are using the GNU version by testing if the symbol __GNU_MP__ is defined.

For more information on how to use GNU MP, please refer to the documentation. It is composed from the file doc/gmp.texi, and can be displayed on the screen or printed. How to do that, as well how to build the library, is described in the INSTALL file in this directory.

REPORTING BUGS

If you find a bug in the library, please make sure to tell us about it!

You should first check the GNU MP web pages at http://gmplib.org/, under "Status of the current release". There will be patches for all known serious bugs there.

Report bugs to gmp-bugs@gmplib.org. What information is needed in a useful bug report is described in the manual. The same address can be used for suggesting modifications and enhancements.

Local variables:

mode: text

fill-column: 78

End:

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Version 3, 29 June 2007

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Version 3, 29 June 2007

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Version 2.1, February 1999

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Version 2, June 1991

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Version 2, June 1991

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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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zlib.h

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