PARI/GP development center

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PARI/GP is a widely used computer algebra system designed for fast computations in number theory (factorizations, algebraic number theory, elliptic curves...), but also contains a large number of other useful functions to compute with mathematical entities such as matrices, polynomials, power series, algebraic numbers etc., and a lot of transcendental functions. PARI is also available as a C library to allow for faster computations.

Originally developed by Henri Cohen and his co-workers (Université Bordeaux I, France), PARI is now under the GPL and maintained by Karim Belabas with the help of many volunteer contributors.

- **PARI** is a C library, allowing fast computations.
- **gp** is an easy-to-use interactive shell giving access to the PARI functions.
- **GP** is the name of gp's scripting language.
- **gp2c**, the GP-to-C compiler, combines the best of both worlds by compiling GP scripts to the C language and transparently loading the resulting functions into gp. (gp2c-compiled scripts will typically run 3 or 4 times faster.) gp2c currently only understands a subset of the GP language.

News:

The workshop Atelier PARI/GP 2012 took place (Jan 23rd-27th 2012) at Institut de Mathématiques de Bordeaux (IMB) !

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