MPlib v2.000

(T\TeX Live 2010)

February 27, Vienna
MPlib v2.000

Summer 2010

May 1, Bachotek
MPlib v2.000

(TeX Live 2010 Summer 2010 Autumn 2010 Summer 2011)

February 27, Vienna  September 4, The Hague
March 5, Dortmund    May 1, Bachotek
September, Brejlov   November 15, Paris
April 1, Bremen
Calculus engines

• selected from command-line
• four different options:
  − scaled 32-bit (compatibility mode)
  − IEEE floating point (a.k.a. double)
  − MPFR (arbitrary precision, binary)
  − decNumber (arbitrary precision, decimal)
  − ... (future extensions possible)
• user-configurable precision for the arbitrary precision engines
Tentative input
Why it is taking so long . . .

- a lot of work
  - the backend needed to be isolated, it now uses IEEE doubles for points and such
  - all numerical values have to be dynamically (de)allocated
  - no C expressions, as there is no operator overloading
- hardly any automation possible
- pressing other matters during 2010
An example of a fixed procedure
An example of work to be done
Planning

• Planning an alpha release with only scaled 32-bit and IEEE double will be available soon (around EuroBachoTEX).
• Then a beta release with all four engines (in the Summer).
• Then a gamma release with memory leaks fixed (Autumn/Winter).
• Finally, MetaPost 2.0 (for TEX Live 2012).
MPlib Funding