MetaPost 2: Numerical engines
Implement better numerical handling in MetaPost, among other enhancements. An article about the initial MetaPost 2 project goals, by Hans Hagen and Taco Hoekwater, was published in TUGboat 30:3. MetaPost 1.802, included in TeX Live 2013, has support for several numeric representations, for example via the \texttt{-numbersystem} option.

Lineno and related updates
Amount: US$1000; acceptance date: 17 Sep 2011.
For updates to the complex \texttt{lineno} package, and related efforts, such as factoring out functionality into separate packages.

Xe\TeX math and other updates
Amount: US$4000; acceptance date: 24 Apr 2012 (completed 25 Jul 2013).
For updates to the Xe\TeX engine, especially relating to OpenType math typesetting, and including updates as needed to Lua\TeX to keep the engines in sync. Several important external libraries had been deprecated and needed to be replaced. Other areas of work include finding fonts and syncing xdvipdfmx with dvipdfmx, as well as handling general bug reports. A report on the completed work was given in TUGboat 34:2.

Dynamic library support in Lua\TeX
Support shared libraries in Lua\TeX using SWIG (http://www.swig.org). Some libraries are already supported, e.g., mysql and graphicsmagick.

Metaflop: \texttt{METAFONT} via the web
Enhance the Metaflop web application, which provides a graphical interface for adjusting Metafont parameters, with improvements to the underlying fonts, the preview mechanism, and the generation.

\TeX Live for Android
Add a native editor and package manager GUI to the \TeX Live for Android project. http://tug.org/tug2013/abstracts/ma.txt has more background.

Project Fandol: Free Chinese fonts and Russian-style math fonts
(Information below is from the applicants.) Most math books in China are produced by Founder Bookmaker. This system has used a set of Russian style math fonts for more than 30 years. These commercial fonts are designed with a unique encoding by Founder. And, these fonts cannot work in \TeX or other programs.

We have a set of metal types which contain two Russian style fonts (serif and sans serif). By analyzing these metal types, we find Founder’s fonts are derived from these fonts, and Founder only provided a serif version (we will provide these math fonts in both serif and sans serif). These metal types were imported from the U.S.S.R. in 1953.

We will trace the metal fonts to outlines (initially in EPS format). For more detailed adjusting, we will be using FontForge. Parts of our Chinese fonts are already processed in this workflow. For these Russian style fonts, we will also work in this way.

\begin{itemize}
\item \TeX Development Fund committee http://tug.org/tc/devfund
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