The Treasure Chest

Packages posted to CTAN

Did you know that CTAN has two different packages for balancing columns? (At least two: balance in \dots/other/preprint and flushend.sty in \dots/sttools.) That there are packages for drawing graphical clock faces and dice? (clock and dice3d in fonts/dice.) That there is a tool for determining if all files needed by a given package are installed? (Appropriately enough, named diagnose.) That there is a package for typesetting exams, along with their answer keys? (examdesign) Or that there is even a “toolbox” of macros “for various tasks often needed in \TeX{} programming”? (toolbox of course.) A veritable “Treasure Chest”, no?

This is a list of packages posted to CTAN from July 2001 through June 2002, with descriptive text pulled from the announcement or researched at need and edited for brevity. All errors are ours.

Each month’s list of packages are in alphabetic order; a package is only listed in the last month in which it was updated. Leading slashes are omitted from URLs, since the prefix will depend on the particular CTAN server you use. To save space, we have omitted the directory name macros/latex/contrib for packages residing there (a large proportion), and those in subdirectories of that branch are denoted by \dots; for example, url.sty (in macros/latex/contrib/misc) would be shown as being in \dots/misc. Furthermore, when we list an entire directory, we don’t repeat the directory name.

This edition of Treasure Chest was split between the authors: Mark wrote the entries for July – December 2001, and Will for January – June 2002. Will is bowing out as of this column — a big thank you from the editors. Mark will continue for future installments.

Hopefully this column and those which follow will help to make CTAN a more accessible resource to the \TeX{} community.

July 2001

2in1 in \dots/misc

\tex\text{} style file for printing two pages on a single landscape page.

alphnum in bibliography/bibtex/contrib

Bibliography style that omits the year, and uses a number instead of a letter.

ascelike Unofficial \astex\ class and bibliography style-files for ASCE documents (American Society of Civil Engineers).

bibfind in bibliography/bibtex/utils

Reads a .bib file and prints those references matching a search string. It works a bit like grep, only it prints the whole reference (paragraph) and not just the line that matches.

comprehensive in info/symbols

This is a major update to the Comprehensive \astex\ Symbol List. Not only does it contain hundreds of new symbols, but the symbol tables have been reordered into a more logical structure; the document begins with a “frequently requested symbols’ list, and there is a new, quick reference table for Latin 1. The result is that \astex\ symbols should be easier to find than ever before.

esvect Write vectors with an arrow different than the Computer Modern one.

gellmu in support

\astex\-like markup for writing XML documents.

gnuplot in support

\astex\-like support for Gnuplot.

hypernat Allows use of \hyperref and \natbib.

iahyphen in language/hyphenation

Hyphenation patterns for Interlingua.

jadetex Processes the output from Jade/OpenJade in \astex\ (-t) mode. Development has moved to \url{http://jadetex.sourceforge.net}.

latable in support

A near-WYSIWYG editor for \astex\ tables.

lineno Adds line numbers to selected paragraphs with references possible via the standard \astex\ \ref and \pageref cross reference mechanism.

MiK\TeX{}-WinEdt-TrueType-Anleitung in info/german

German information about MiK\TeX{}, WinEdt, and TrueType.

mpattern in graphics/metapost/macros

Patterns in METAPOST.

neuron in bibliography/bibtex/contrib

A bibliography style for use in submitting manuscripts to the journal Neuron (\url{www.neuron.org}).

pdfcrypt.sty in \dots/oberdiek

Allows the setting of PDF encryption options for pdf\astex{} and V\astex{}.

pkfix in support

Replace pk fonts with Type 1 in PostScript files.

SIunits Typeset physical units following the rules of the International System of Units (SI).

t-angles Draws tangles, trees, Hopf algebra operations, and other pictures.

August 2001

amstex in macros

\amstex\ version 2.2.

arraymaker in support

This Tcl/Tk program is designed to take some of the tedium out of constructing arrays, diagrams.
and tables. \TeX code is entered into an array of blank boxes and arrows can be added with a mouse click. The program then outputs an array that can be pasted into a \TeX file.

\texttt{binhex} in \texttt{macros/generic/kastrup}
Convert numbers into binary, octal and hex.

\texttt{bitfield} Draws bitfield diagrams.

\texttt{biocon} Aids typesetting of biological species names, and of taxa below the species level.

\texttt{booklet} Provides some aids for printing simple booklets or signatures for longer books.

\texttt{bundledoc} in \texttt{support}
This post-processor for the \texttt{snapshot} package bundles together all the classes, packages, and files for building a given \TeX document.

As an added bonus, this distribution includes a small script called \texttt{arlatex}, a \TeX-specific archiving program that combines a bunch of files into a single \texttt{.tex} file. When the \texttt{.tex} file is run through \texttt{latex}, all of the original files are recreated and the \TeX document is built.

\texttt{crossreference} Cross-referencing package to provide traceability for technical documents, especially Software Requirements Specifications.

\texttt{dashbox} Draws dashed boxes.

\texttt{datenumber} Provides commands to convert a date into a number and vice versa.

\texttt{ebezier} An extension of the (old) package \texttt{bezier.sty} which is currently part of \TeX\LTex. It defines linear and cubic Bernstein polynomials together with some plotting macros for arcs.

\texttt{examples} in \texttt{info/metapost}
A few hundred example pictures drawn with \texttt{METAPOST}, ranging from very simple (lines and circles) to rather intricate (uncommon geometric transformations, fractals, bitmaps, etc.).

\texttt{filecontents} The environments \texttt{filecontents} and \texttt{filecontents*} enable a \TeX source file to generate external files as it runs. However, these environments have two limitations: they refuse to overwrite existing files; and they can be used only before the \texttt{\documentclass} declaration. This package removes these limitations.

\texttt{float} Improves the interface for defining floating objects, such as figures and tables. Introduces the boxed float, the ruled float, and the plaintop float.

\texttt{framed} in \texttt{.../misc}
Creates framed or shaded regions that can break across pages.

\texttt{greenpoint} in \texttt{fonts}
\texttt{METAfont} implementation of the logo commonly known as “Der Gruene Punkt” (“The Green Point”). In Austria, it can be found on nearly every bottle. It should not be confused with the “Recycle” logo, implemented by Ian Green.

\texttt{musixps} in \texttt{fonts/musixtex/ps-type1}
This package provides PostScript (Type 1) fonts (PFB format), and \texttt{dvips} and \texttt{dvipdfm} map files for MusiX\TeX.

\texttt{ps2eps} in \texttt{support}
A tool to produce EPS/EPSF files from typical one-paged PostScript documents. Requirements: Perl, Ghostscript and an ANSI C compiler if your platform is not Linux, Solaris, Digital UNIX or Windows 2000/9x/NT (binaries included).

\texttt{revtex} Includes styles for the journals of the American Physical Society, American Institute of Physics, and Optical Society of America.

\texttt{ruhyphen} in \texttt{language/hyphenation}
Updates to this package for Russian hyphenation.

\texttt{slide} This is a set of \texttt{METAPOST} macros which simplify creating a PDF presentation using \texttt{METAPOST} and Ghostscript.

\texttt{uiuchest} University of Illinois at Urbana-Champaign thesis style.

\texttt{warning} This package provides a command that generates a list of warnings that are printed out at the very end of the log file. This is useful for notes such as “Rerun for this or that reason” or “This is draft, change this before the final run”.

\texttt{x12latex} in \texttt{support}
Convert Excel (97 and above) tables to \TeX.

September 2001

\texttt{boites} Defines environments that allow page breaks inside framed boxes. A few examples are included (shaded box, box with a wavy line on its side, etc.).

\texttt{brushcr} in \texttt{fonts}
This Type 1 font, named BrushScriptX-Italic, simulates hand-written characters.

\texttt{circuit_macros} in \texttt{graphics}
A set of macros for drawing high-quality electric circuit diagrams containing fundamental elements, amplifiers, transistors, and basic logic gates to include in \TeX, \LTex, or similar documents. Some tools and examples for other types of diagrams also included.

\texttt{combine} The \texttt{combine} class lets you bundle individual documents into a single document, such as when preparing a conference proceedings.

\texttt{frankenbundle} in \texttt{support}
Allows an author to maintain and distribute a bundle of one or more \TeX packages, classes, \BibTeX bibliography styles, documentation, etc.

\texttt{frankenstein} A collection of \LTex/\BibTeX macros.

\texttt{ifvtex.sty} in \texttt{.../oberdiek}
Looks for \LTex, defining the conditionals \texttt{\ifvtex}, \texttt{\ifvtexmode}, and \texttt{\ifvtexgex}.

\texttt{JavaBib} in \texttt{biblio/bibtex/utils}
A \BibTeX reference manager written in Java.

\texttt{register} Typesets the programmable elements in digital hardware, i.e., registers.
TkTeXCAD in graphics
A Tk-Shell script which provides a graphical user interface to the picture environment.

October 2001
belleek in fonts
The Belleek fonts described in Richard Kinch’s paper at TUG’98.
bibweb in biblio/bibter/util
A utility for automatically retrieving bibliographical information from the American Mathematical Society’s MathSciNet program.
clock Provides various graphical and textual clocks for \TeX\ and \LaTeX\ $2\epsilon$. Renamed from texclock.
\text{cm-super} in fonts/ps-type1
Update to the huge \text{CM}-Super font package.
\text{eps2pdf} in support
Converts EPS files to PDF files.
\text{euro} Converts arbitrary national currency amounts using the Euro as a base unit.
\text{frenchle} in language/french
Better support for hyperref and pdftexscreen.
hitec This document class for technical papers in the “hi-tec” industry aims to escape from the academic look of the well-known \LaTeX\ document classes.
\text{mathtimepro} in .../psnfssx
For using \text{Y&Y}'s new math font set MathTimeProfessional with \LaTeX\.
\text{montexiv} in language/mongolian
Mon\TeX\ Implementation Level IV offers vertical texts in Mongolian and Manju, intermixed with Latin texts.
\text{onlyamsmath} This package inhibits the usage of plain \TeX\ and standard \LaTeX\ math environments. Useful for class writers who want to force clients to use the environments provided by the amsmath package.
\text{pdftricks} Support for pdftex in pdftex.
\text{psgo} in graphics/pstricks/contrib/psgo
Draws Go diagrams with \LaTeX\.
\text{repeatindex} Repeats item of an index if a page or column break occurs within a list of subitems.
\text{sline} in macros/generic/swrule.sty
Typesets swelled rules: lines that are thicker in the middle than at the ends.
\text{technics} For writing technical documents. Uses the fancyhdr package to build headers containing document name, prepared by, approved by, etc.
\text{TeXnicCenter} in systems/win32
An integrated development environment (IDE) for developing \LaTeX\ documents on Windows.
\text{tipa} in fonts/tipa
Updates for Concrete, Palatino, CM Bright, and CM Type 1 TIPA (\TeX\ International Phonetic Association) fonts.
\text{tmmath} in .../psnfssx
\LaTeX\ packages for using MicroPress’s TM-Math fonts.

\text{tt2001} in fonts/ps-type1
This is a \LaTeX\ .pfb font collection that contains almost all the EC (European Computer Modern) and TC (Text Companion) fonts in all possible design sizes, all the AMS fonts in all possible design sizes, plus some more.
\text{underscore} Package update adds a \text{[nohyphen]} option and compatibility with babel’s active characters.

November 2001
\text{adrconv} Converts Bih\TeX\ databases of addresses to the address format used in scrletter and akletter. It includes a \LaTeX\ file to print the addresses in different layouts.
\text{aysize} A simple package that can be used to set up the margins of a document. This package is obsolete. Use the package typearea to define your margins typographically. Use the geometry or vmargin package for everything else.
\text{coordsys} Provides commands for typesetting number lines (coordinate axes) and coordinate systems in the picture environment.
\text{em} in .../psnfssx
The PSNFSS support files for the “European Modern” (EM) fonts.
\text{findnyph} A Perl program to find all words hyphenated by \LaTeX\ in a document.
\text{flshort} in info/lshort/french
French translation of “The Not Short Introduction to \LaTeX\ 2\epsilon”.
\text{frenchpro} in nonfree/languages/french
Update to French Pro.
\text{ithyph} in languages/hyphenation
Update of the hyphenation patterns for Italian.
\text{jkthesis} Just another \LaTeX\ document class for formatting your thesis.
\text{labyph} in languages/hyphenation
Update of the hyphenation patterns for Latin.
\text{latexmk} in support
Given the source files for a document, \text{latexmk} issues the appropriate sequence of commands to generate a .dvi, .ps, .pdf or hardcopy.
\text{minutes} Package for writing minutes of meetings.
\text{mdx} in language/mongolian
Package for typesetting Xewtee Dorwoljin, a Mongolian script conceived in the 17th century.
\text{ocherokee} in languages/cherke
For typesetting the Cherokee language, including a PostScript version of the official Cherokee font.
\text{pdftexprot} A package to activate pdftex\TeX\’s character protruding feature.
\text{pdftex_for_oztex} in nonfree/systems/mac/pdftex
pdftex\TeX\ for Oz\TeX\ is a shareware package. This update brings the pdftex\TeX\ programs to the 20010806 source code.
\text{pictex2} An extension to standard Pi\CTeX.
preview A standalone \LaTeX{} style to extract selected elements from a \LaTeX{} source into separate pages of a DVI file.

\psfixbb in support
A program which sets or fixes the bounding box of a PostScript file, using Ghostscript, \pnmfile{} and \texttt{pnmcrop}. This version handles files which have no \texttt{showpage} command, landscape files, and files produced on a Mac.

\spie SPIE Proceedings format.

timetable in macros/plain/contrib/timetable
A \TeX{} macro for generating timetables.

\usergrps{} in usergrps
HTML pages for \TeX{} usergroups.

\December{} 2001

\bold-extra in \texttt{.../misc}
Makes NFSS tables for the fonts/cm/mf-extra/\bold{} fonts (bold cmtt and cmcsc).

\bpchem docstrip-documented package for chemical typesetting.

\epstopdf in support
Converts EPS files to encapsulated PDF files for use with \pdftex{}.

\invoice For writing invoices. Supports English, German, Dutch and French.

\keystroke For typesetting the graphical representation of the keys on a computer keyboard.

\latex2man in support
Translates UNIX manual pages written with \TeX{} into a format understood by the UNIX \texttt{man}() command. HTML, Texinfo, or \TeX{} code can be produced too.

\LaTeX{}-Pack in support
Macros written in the NEdit scripting language to turn NEdit, the Nirvana text editor, into an advanced \TeX{} editor. NEdit version 5.2 or later is required.

\mattens Vector, matrix and tensor symbols.

\metre Provides classicsists with some of the tools needed to typeset scholarly publications dealing with Greek and Latin texts; special emphasis on Greek verse.

\parskip in \texttt{.../misc}
Simply changing \texttt{\parskip} and \texttt{\parindent} leaves a layout that is untidy; this package helps alleviate this untidiness.

\printlen in \texttt{.../misc}
Print \TeX{} lengths in a variety of units.

\venn in graphics/metapost/contrib/macros
Macros for Venn diagrams with \textsc{MetaPost}.

\January{} 2002

\acroread{} in support
(V.1.0) A Perl script to run Acrobat under a different name, allowing several instances to be run independently.

\antt in fonts/psfonts/polish
Antykwra Toruńska, a traditional Polish typeface.

\bahyph in language/basque
Hyphenation patterns for the Basque language. Compatible with the support for Basque in babel 3.7.

\cd in \texttt{.../other}
Print CD covers, featuring easy batch printing with crop marks, automatic track numbering and more.

\cd-cover in \texttt{.../other}
Class for typesetting various forms of CD covers. V.1.4 adds automatic printing in landscape mode. Some minor documentation changes.

\ctie in web/c_cpp
A CWEB-aware variant of TIE.

\dk-bib in bibliography/bibtex/contrib
A translation of the four standard \BibTeX{} style files (\texttt{abbrv}, \texttt{alpha}, \texttt{plain} and \texttt{unsrt}) into Danish. From the Norwegian translation by Dag Langmyhr extended with ISBN and ISSN fields.

\epsfx{} in macros/generic/\TeX{}-PS
A \TeX{} macro package for including EPS graphics.

\eurosans (V.3.0) Supports scaling of the Adobe Euro symbol fonts.

\frhypth{} in language/hyphenation
(V.2.11) Corrects the hyphenation of some words like cognitive, ignifuger, ignition, inexpugnable, etc.

\gatech-thesis Georgia Institute of Technology theses.

\LaTeX{}-WIDE in nonfree/systems/win32
A demonstration version (1.3) of an integrated editor and shell for \TeX{} is free for noncommercial use, but without registration customization is disabled.

\makor in language/hebrew
Fonts and macros to typeset Hebrew in a natural manner with a software switch to turn vowels off or on, and examples.

\nath Natural math notation, a style to separate presentation and content in mathematical typography. Delivers a particular context-dependent presentation on the basis of a rather coarse context-independent notation — aims for producing traditional math typography.

\polynom Implements macros for manipulating polynomials, for example it can typeset long polynomial divisions. V.0.14 adds a new \texttt{style=C}.

\procIAGssym Package for the preparation of a paper in the style of the proceeding of symposia sponsored by the International Association of Geodesy (IAG) published by Springer-Verlag.

\qfonts in fonts/psfonts/polish
A collection of fonts based on URW’s clones in the QX encoding layout.

\rectopma Allows the reuse of the main content of \texttt{\title} and \texttt{\author} anywhere in the document. Includes \texttt{TestTitle.tex} (combination manual/example of use).
scientificviewer in nonfree/systems/win32
Scientific Viewer 4.0 is a free program for reading and printing (read-only) documents created with Scientific Notebook, Scientific Word or Scientific WorkPlace by MacKichan Software, Inc. Scientific Viewer can also be used to view many native \TeX\ documents.

siyph22.tex in language/slovene
Corrected Slovenian hyphenation patterns, as found on ftp://sizif.mf.uni-lj.si/pub/i18n/ siyph22.tex. Made by Matjaz Vrecko in 1990, maintained mostly by Leon Zlajpah in the '90s and uploaded on behalf of of Primoz Peterlin.

src1tx Inserts source specials in .dvi files, enabling switching from a particular point in a previewer which supports them (e.g., Yap or xdvi-22.38) to the matching source in an editor which supports external direction to a specific point. Updated with a simpler implementation of input file tracking, using macro expansion instead of a stack. \TEX's \input\{...\} command is now overloaded as well.

stack This class implements a stack mechanism without using \TEX's stack, so that your stacks are not related to the \TeX-grouping mechanism (useful for package developers). stack.dtx also defines a class relinput which implements a chdir-like mechanism so that \input\{...\} can be done relative to the directory of any file.

tables in macros/generic/tables
An easy \TEX macro package for typesetting complex tables.

vtx in systems
Release 7.530 of MicroPress’s \TEX for OS/2 and Linux (x86). Supports PDF security options and xpdf source specials.

February 2002

AcroTeX in .../webeg
Formerly the Web/Exerquiz Packages, now bundled together as the “Acro\TeX Education Bundle.” A series of packages for the creation of dynamic and interactive education (or other) materials in PDF format. Includes a library of JavaScript functions.

AlProTex.sty in web/protex
Minor modifications to this literate programming system, for compatibility with TeX4ht.

bibtool in bibliography/bibtool/utils
Manipulation of Bib\TeX\ files including: sorting and merging, pretty-printing, syntax checks with error recovery, semantic checks, generation of uniform reference keys, controlled rewriting with regular expressions, collection of statistics, and more. Includes documentation. C source only (no binary).

cropbox.sty in .../ncctools
Crop marks with customizan parameters.

cropmark.sty in .../ncctools
-produces a crop box around the page text area.
dcounter.dtx in .../ncctools
Dynamic counters.
desclist.sty in .../ncctools
An improved description list environment.
dcpic in macros/generic/diagrams
Macros for drawing Commutative Diagrams in a \TEX (including \TEX and Con\TEX) document.
draftcopy Print the (translatable) word ‘DRAFT’ on selected pages.
dvispell-dvistats in support
A Linux or MSDOS/djgpp version of dvispell (no longer limited to 8.3 file names). A comprehensive set of dictionaries is included.
eqlist Allows description-like lists to have equal indentation. Requires eqparbox.
esint Provides several alternate integral symbols (like \oiint) using the Computer Modern font.
exitdash.dtx in .../ncctools
Flexible hyphenation of compound words; can conform to Russian typesetting conventions.
g-brief (V.3.0) A document class for \TEX for formless letters in German or English.
guitar (1.6) \TEX package for typesetting guitar chords over song texts. c.f. ghords.sty to typeset the chords graphically (not only by name). With references to other related packages. Requires toolbox.

labels.sty in .../labels
Provides a new package option newdimens which allows more flexible specification of the label layout.
latex4wp in info
A guide for word processor users designed to help convert knowledge and techniques of word processing into the \TEX environment.

manyfoot.sty in .../ncctools
Adds footnote levels to the standard footnote mechanism includes an option for run-in paragraph footnotes (useful for critical editions).
moresize in .../taupin
Provides three larger font sizes: ‘giant’, ‘Giant’ and ‘GIANT’.
nth.sty in .../generic
Ordinal numbering style: 1st 2nd 3rd 4th 5th ...
nccbbb.sty in .../ncctools
Implementation of poor Black Board Bold symbols. Not needed with contemporary \TEX systems.
nccboxes.sty in .../ncctools
Adjustable boxes useful for setting tables.
nccfancyhdr.sty in .../ncctools
New implementation of the functionality of the fancyhdr package for NCC-\TEX.
nccfoota.sty in .../ncctools
Commands for generating footnotes with manual marks. For example, the command to mark a footnote with an asterisk is \Footnote{*} {text}.
nccmath.sty in .../ncctools
Extension of the amsmath package to combine its typesetting of display equations with NCC-\TeX, especially for arrays.

ncsect.sty in .../ncctools
Extension of \LaTeX's section, caption, and toc-entries generation technique. Improvements include: simple declaring of sections of any level, user-controlled typout, customizing of section or caption tag, simple declaring of toc-entries, \numberline command never overlaps the following text, automatic calculation of right margin in table of contents, different captions for different float types and simplified handling of new types of floats.

tocenter.sty in .../ncctools
Provides control over the typesetting of the \maketitle command. Four properties of theorems are used: numbering mode, theorem type, indent style and break mode. Easy customization including spacing and commands inserted after headers.

osta.bst in biblio/bibex/contrib
Bib\TeX style file for Optical Society of America (OSA) journals.

rotfloat This package bridges the float and rotating packages, extending them with rotated versions of new floats.

rotpages Allows pages to be rotated by 180 degrees and rearranged, so that they can be read by turning the printed copy upside-down.

smallcap in .../taupin
Make small caps a font family rather than a shape, thus allowing bold and slanted small caps.

smartref Expand capabilities of \label and \ref by adding commands similar to \pageref and other references to user-chosen counters. V.1.9 fixes a bug where equation labels were not used with A\LaTeX, and makes \smartref robust.

TeX\&ht in support
An enhanced version of a system for translating (B)\TeX sources into hypertext. Annual upgrade.

tiff2ps in support/ps2tools
A PostScript program for converting TIFF to EPS.

titling Provides control over the typesetting of the \maketitle command, and makes the \title, \author and \date information permanently available. New examples added to the documentation.

tocenter.sty in .../ncctools
Provides commands \ToCenter and \FromMargins, which simplify the customization of page layout, either by specifying text element area dimensions, or by setting margins from the left, right, top, and bottom.

toolbox A package for (B)\TeX which provides some macros which are convenient for writing indices, glossaries, or other macros. V.4.2 keeps `#' in certain arguments unexpanded (as pointed out and solved by David Kastrup).

txt2latex in support
Perl script to facilitate batch conversion of largely unformatted ASCII text for use with \LaTeX. Its sole purpose is to escape special characters and to fix single and double quotation marks.

varsects.sty in taupin
Redefines \chapter, \section, \subsection etc. with optional parameters changing vertical space before and after the title, and the font size, series, shape or family.

watermark.sty in .../ncctools
Provides watermarks, with options for left and right pages, temporary, \thiswatermark for current page only.

webomints in fonts
Provides support files for the border and ornament font Web-O-Mints freely available from Galapagos Design. Created by George Ryan, Web-O-Mints contains a rich assortment of typographic decorations inspired by historical sources.

york-thesis A \LaTeX style file for York University (Toronto, Canada).

March 2002

ama.bst in biblio/bibex/contrib
A modification of the IEEE Bib\TeX style file to conform to the American Medical Association Style Guide guidelines for references. This is the style required by numerous biomedical journals (including JAMA, Cancer, NEJM).

bangtex in language
Font and class files for typesetting in Bangla (Bengali) and Assamese. Includes sample files, which and manual.

biblio in support
(V.1.2) A perl program for preprocessing your bibliographic references. After preprocessing the input tex file it creates an output file with references included according to user-specified formatting.

bmeps in support
A program to convert from PNG, TIFF, JPEG, NetPBM to EPS. V.1.0.2 fixes a bug related to malformed DSC comments.

GWEBbin in web/c_cpp
(V.3.64 [p20]) A set of change files (to be applied with TIE) that make the original sources usable with ANSI-C/C++ compilers on UNIX/Linux, MS Windows, and Amiga. Additional functionality, like macros, and macros for international documentation of CWEB programs, is introduced.

dvnp in language/devanagari/contrib/fonts
PostScript Type 1 renderings of Frans Velthuis' Devanagari METAFONT fonts for \TeX.

easy A collection of “easy” to use macros, including macros for writing tables, matrices, vectors, equations and custom bibliographies.
emTeXTDS in systems/os2/emtex-contrib
(Fixpak 8) The emTeXX/TDS distribution for OS/2, featuring the latest releases of \ltx.root, \metafiles and other packages, as well as several bug fixes.

eulervm in fonts
This is a set of virtual math fonts, based on Euler and CM. Included is a \ltxX package, which makes them easy to use, particularly in conjunction with Type 1 PostScript text fonts. V.2.8 now works with sans serif text fonts.

icomma in \...\was
An ‘intelligent’ comma, which yields proper spacing in decimal numbers as well as in mathematical expressions which does not depend on a specific encoding, and works with decimal numbers of arbitrary length. V.2.0 changes the behavior of the comma in math mode, so that the comma can be used both as a punctuation character and as a decimal separator.

iTeXMac in systems/mac
All in one Cocoa application for \TeX on Mac OS X.

javadvi in dvivare
A dvi viewer and printer coded in Java. Needs Java RTE 1.3.

letritrine (V.1.2) Package designed to typeset various sorts of dropped capitals. Corrects a bug due to incorrect handling of rubber lengths; the bug occurred with \seminar.cls for instance.

ly1-min.zip in \...\psnfssx\ly1
A minimum set of support files for using the LY1 encoding with \ltxX. Fixes \textnansi.enc, which had a wrong glyph name for the Euro symbol.

mathdots.sty in generic
Provides the command \iddots for diagonal dots (slanting the opposite of \ldots). Also modifies the \ddots and \vdots dots so that they change size with \ltxX’s size changing commands and in sub- and superscripts.

memoir Peter Wilson’s flexible \ltxX documentclass for typesetting of books such as novels, biographies, histories, etc., with options for trim marks, draft appearance, various sizes and much more. V.1.1 adds bug fixes, native support for subfigures, additional facilities for verse typesetting, experimental marginpar-like extensions, and a new edition of the user manual.

ncclatex The NCC class and NCCLATEX package. It works together with NCCTOOLS, release 2.03 or later. Has many customization features and service commands making it more powerful than standard \ltxX classes.

newlfm For creating letters, faxes and memos; integrates the \letter class with \fancyhdr and \geometry and includes support for an address database, languages. Aver labels and has full documentation.

paralist This style file provides some new list environments. Itemized and enumerated lists can be typeset within paragraphs, as paragraphs and in a compact version. Most environments have optional arguments to format the labels. Additionally, the \ltxX environments \itemize and \enumerate can be extended to use a similar optional argument. V.2.3.b fixes bugs in \setdefaultenum caused by changes made in V.2.3a (which provided improved documentation and bug fixes).

s2latex-win32.exe in support/s2latex/win32
An MS-Windows (Win32) executable for s2latex, a utility which converts Scribe documents to \ltxX.

sfms For formatting science fiction and fantasy manuscripts in the format standard for the genre — 12pt monospaced font with double spacing, etc. It is based on a previous style file called sfms. Full documentation is provided.

snapshot Provides a snapshot of the external dependencies of a document insofar as they can be determined from \ltxX. V.1.13 gives suitable warnings for files listed in an \RequireVersion statement or that do not appear in \@filelist, and adds a test option.

texaide in support
A special version of Design Science’s MathType Equation Editor that generates \TeX and \ltxX.

TeXmacs in systems/unix
(V.0.3.5.11) A text editor inspired by the popular \TeX typesetting system and the Emacs editor. Runs on PCs under Linux and on Sun computers: “It is reasonable to expect that it will run on most UNIX/X-Windows systems in the near future.”

texshade (V.1.6) For typesetting nucleotide and protein alignments in \ltxX.

TrueTypeToType42 in fonts/utilities
Creates a PostScript Type 42 font file from a TrueType font file.

verse Aids in typesetting simple verse (poems). Update adds optional numbering, repeating patterns, \ as a linebreaking command and fixes \label when used with the first line of a poem.

webfiles in web
Improved documentation and code for PDF links.

yhmath in fonts
Type 1 font for the ymath package.

April 2002

ccaption Retain a figure or table number across several float environments—usually over several pages. It also allows control over the contents of the List of Figures and the List of Tables pages.

caption Provides: continuation captions, unnumbered captions and legends, captions outside float environments, bilingual captions, etc. It also enables the definition of new float environments and their captions. V.3.1a changes the subfigure option to support version 2.1.2 of the subfigure package.
checkend.sty in ./bezos

Improves \TeX’s error messages for unclosed environments to make it easier to fix “\end occurred inside a group at level \n.”

curve A class for making curriculum vitae (in distinct versions). Provides commands to create rubrics, entries in these rubrics, etc. V.1.2 adds: more translations, a starred form for the \entry macro, with a simplified syntax, and most important, support for standard bibliography inclusion.

datetime Changes format of \today. Provides commands for current time (12 or 24 hour forms), printing ordinal number forms (e.g., 3rd), and as a string (e.g., \numberstring{3} would print three).

dtk (V.1.6) Document class and style for Die T\e Xnische Komoedie, the communications of Dante e.V., the German speaking \TeX users’ group.

feyn in fonts

Can produce relatively simple Feynman diagrams within equations or text in a \TeX document.

figsize Dynamic and automatic sizing of graphics and other elements relative to page.

fixme Provides insertion of “fixme” notes in draft documents, either in the margin of the document, as index entries, in the log file and/or as warnings on stdout or to summarize them in a list. Has support for AUC-\TeX. V.2.0 has many new features, including: a new layout option (inline), notes counters, a usage summary at the end of processing, more translations, and most important, three additional macros for including non-critical notes of different importance levels.

gauss Package for typesetting matrix operations, now compatible with A\MS-\TeX.

gloss Allows creation of glossaries via Bi\TeX.

jurabib Supports various forms of short and long citations; now does Oxford-style formatting and includes support for Spanish. Many other changes and improvements.

kerkis in fonts/greek

The first freely available Type 1 font to fully support Greek (polytonic included) through Babel. An extension of the Bookman Old Style design. Also supports the Latin alphabet very well, with support for OT1 and T1 encodings as well as many missing ligatures and true small caps.

lettre (V.2.345) Designed to write letters with \TeX in French, German, English. The letter aspect is entirely configurable, through a number of dimensions and macros, that can be put also in a so-called “institute package” called at initialization. Includes documentation and examples in all three languages.

mathabx in fonts

Large series of mathematical symbols. Initial release, “merely for evaluation”.

msc Draws Message Sequence Charts. Version 1.10 is a major update since the previous version, supporting the ITU standard MSC2000.

oztex in nonfree/systems/mac

V.5 of a shareware implementation of \TeX and associated programs for Apple Macintosh systems.

pdfpages Package to enable the inclusion of pages of external PDF documents. V.0.2d adds a fitpaper option; V.0.2g the option addtotoc which adds entries to the Table of Contents (e.g., for putting together conference proceedings).

plates Configurable float environment that is gathered to end of the document for special printing (e.g., plates, photos, color diagrams)

preview-latex A system for displaying inline images of selected parts of a file in Emacs source buffers. The style file is independently useful for extraction of selected text elements as images.

protocol Typeset meeting protocols (in German).

purifyeps in support

Makes .eps files work with both dvips and pdflatex by converting PostScript code into the “stylized format that METAPOST outputs.”

rcsinfo Use RCS (Revision Control System) information in a \TeX document. For \makeatletter\TeX\makeatother users, rcsinfo.perl adds the functionality to that tool. With V.1.9, the initial $\$ of $\$1d may be omitted.

shorttoc Adds the macro \another\table\of\contents (or \another\table\of\contents) to import and display the table of contents of another document. It can also import and display the list of figures (or similar things) from another document.

showlabels Puts the names of \labels (or other macro arguments) into the margins of a draft document. V.1.4 adds an [inline] option and is more compatible with wrapfig.

skull in fonts

METAPOST version of a skull-and-crossbones symbol, with \TeX bindings.

songbook (V.4.0) An all-purpose songbook style. Allows for three types of output from a single input file: words and chords books for musicians to play from, words-only songbooks for a congregation to sing from, and overhead transparency masters. Will also print a table of contents, an index sorted by title and first line, and an index sorted by key. It attempts to handle songs in multiple keys, as well as songs in multiple languages.

subfigure Package for providing support for the inclusion of small, ‘sub’, figures and tables. It simplifies the positioning, captioning and labeling of them within a single figure or table environment. In addition, this package allows such subcaptions to be written to the List of Figures or List of Tables if desired. V.2.1.3 fixes an incompatibility with several packages including the \texttt{tocloft} and the \texttt{ecaption} packages when used with the \texttt{hyperref} package and 2.1 includes bug fixes, second optional argument to allow control over the list-of-figures entry separately from the subcaption, a \texttt{tight} option for a
more compact arrangement, a \subref command to allow references to the subfigure, new \raggedright option for the subcaption, and font formatting options only affect the label portion of the subcaption.

textpos Places boxes (containing text, or graphics, or a table, etc.) at absolute positions on the page. V.1.2 adds [verbose] and [quiet] options.

texttopo Plots topology data of membrane proteins derived from PHD predictions, SwissProt database files, or manually entered data; and transmembrane domains as seen from above or beneath the cell membrane. Fully compatible with \TeXshade — this allows calculated shading based on sequence conservation and functional aspects of the residue side-chains. V.1.3 introduces two more helical wheel styles and the indication of the hydrophobic moment. Further, the dvips driver is not mandatory anymore as is \rotating.sty.

titlesec Essentially a replacement — partial or total — for the \LATEX macros related to sections; namely, titles, headers, and contents (upgrade to V.2.5). Now \calc-savy, shorthand in lengths now accepts non-integer numbers and the unit is not hardcoded, more meaningful error messages, bug fixes.

tocbibind A package to add document elements like a bibliography or an index to the Table of Contents. The “List of ...” headings can also be put into the ToC. V.1.5c fixes a problem with \tocchapter in non-chaptered documents and a problem with \tocetcmark.

urlbst in biblio/bibtex/contrib
Perl script to adds a ‘webpage’ entry type, and support for general ‘url’ and ‘lastchecked’ fields, to arbitrary Bib\TeX style files.

WinShell in systems/win32
(V.2.2) A graphical user interface for easily working with \TeX. It is not a \TeX system so requires a system such as Mik\TeX or \TeX Live.

wp2latex in support
Conversion from Wordperfect 6–8 into \LATEX. It is not a \LATEX system so requires a system such as Mik\TeX or \TeX Live.

catdvi in dvive
The program is a .dvi-to-plain text translator capable of generating ASCII, Latin-1 and UTF-8 (Unicode) output. It aims to become a superior replacement for the dvit2tty utility. The current version is quite usable for previewing (on character-cell displays) .dvi files that contain mostly linear text. V.0.13 adds new or improved \TeX font encodings, European currency symbol support, improved math layout, usability enhancements and fixes.

crop The package provides different forms of cropmarks for trimming paper stacks, for camera alignment, and for visualizing the page dimensions, as well as options for reflecting and inverting the whole document. V.1.7 adds new options, the ability to set paper dimensions explicitly, and to suppress marks when printing duplex and improved compatibility.

cite Sync with \TeX Live; improve babel support.

dxtut in info
“How to Package Your \LATEX Package”—a tutorial for advanced \LATEX users who want to learn how to create .dtx and .ins files for distributing their homebrewed classes and style files.

euroce in fonts
(V.3.0) METAFONT source of the official Euro currency symbol and CE logo including variants, in both solid and outline.

eurosym in fonts
METAFONT source for the official Euro currency symbol and CE logo including variants, in both solid and outline with a \TeX style to access it. V.1.3 adds Type 1 fonts generated by \texttrace and modified by \pfedit.

fontinst-prerelease in fonts/utilities
Update for the font installation package which includes up-to-date \etex files and \ertex files, with the Euro symbol.

ggradback A small addition to pstricks to generate gradient backgrounds.

ejasthetic Conforms to thesis requirements of the University of Bristol, UK. It also approximates the BS4821:1990 standard.

cases.sty in .../other/misc
(V.2.5) Fixes formatting of over-full displays.

cmbright in fonts
Updates the CM Bright typefaces to V1.1.0g; corrects the fonts metrics of the text companion fonts, and improved documentation of the macro package. License changed to LPPL making possible the creation of “scalable vectorized versions...including Adobe Type 1.”

May 2002

BSR2dvi in dvive
Alpha release. Utility for extraction of a standard .dvi file from Textures’ “all-in-one” file format.

cases.sty in .../other/misc
(V.2.5) Fixes formatting of over-full displays.

cmbright in fonts
Updates the CM Bright typefaces to V1.1.0g; corrects the fonts metrics of the text companion fonts, and improved documentation of the macro package. License changed to LPPL making possible the creation of “scalable vectorized versions...including Adobe Type 1.”
use with version 9 of PSNFSS; also fills out Math Blackboard Bold, re-designed \Phi, \varsigma, \xi and \varepsilon.

**mm2eguide in nonfree/macos/latex/contrib/mnras**

A guide for authors who are preparing papers for *Monthly Notices of the Royal Astronomical Society* (MNRAS), together with a sample article.

**multicap**

Formatting captions inside `multicols`

**mvcls**

Standard \LaTeX classes, tailored to Polish printing customs.

**nttheorem (V.1.203)**

Extensions for handling theorem-like environments.

**piechartMP in graphics/metapost/macros**

Enables even users with not much experience to draw their pie-charts with MetaPost. It supports basic 2D pie-charts as well pie-charts in 3D projection. The chief purpose for the piechartMP development was the support for presentations. The user can make segments invisible or hide a segment completely, in order to draw multiple different charts from one data-set.

**platex (V.1.2.3)**

A set of tools for typesetting in Polish. Some of its general purpose macros are used in other packages hence the present location (with a link from the old `languages/polish/platex`).

**proof in support**

A Bash (Bourne Again Shell) based complement to an ordinary word processing program, able to coordinate the processing and viewing of \LaTeX, \BibTeX, METAPOST and METAFONT-sources.

**psnfss in macros/latex/restricted**

Version 9 of the PSNFSS system, supporting the use of the base 35 PostScript fonts and the Charter, Utopia and Pazo fonts with \TeX. The `TeXBase` encoding now includes the Euro symbol, \vbar in `mathptmx.sty` improved, missing `scriptratio` redefinitions added. Documentation updated.

**psnfss-source in fonts/psfonts**

Sources of the latest PSNFSS version 9.

**soul**

Provides flexible, hyphenatable letterspacing, underlining, overstriking, and highlighting. Now allows natural input syntax for accents, dashes etc., font switching commands in the argument, bug fixes, provides some additional features: highlighting, \sloppyword, improved documentation and programming interface. V.2.3 allows natural input syntax for accents, dashes etc., font switching commands in the argument, bug fixes, provides some additional features: highlighting, \sloppyword, improved documentation and programming interface. Compatible with `ccfonts.sty`, `beton.sty`, and `cmbright.sty`.

**SQL\TeX**

A well documented Perl preprocessor to enable the use of SQL statements in \TeX. V.1.4 adds an option to replace values in the database results using configurable replace files.

**swimgraph**

Produces color graphs of a swimmer’s performances, from data recorded in a text file, specified by arguments for the desired date range. Records and qualifying times may be included.

**ttf2tex in support**

Bash script to create all files necessary to use TrueType fonts with \TeX\textit{X}. V.0.5 has preliminary support for OpenType fonts (TT based only), support for real small caps, oldstyle figures, support for -n and -N switches of ttf2tfm, an option to disable hyphenation, more robust and flexible and an updated and extended manual, and more.

**ziffer**

Formats numbers according to the conventions used in Germany and some other countries (even in math mode). Update adds a switch to disable conversion of -- for compatibility with newer versions of `amsmath`.

### June 2002

**astro in fonts**

(V.2.00) METAPOST source for astronomical and astrological symbols: planets, signs of the Zodiac, and others, all with variant shapes, in three styles, plus six symbols for the phases of the moon.

**bakoma in systems/win32**

Upgrade of BaKoMa \TeX system to V.4.60.

**CJK in language/chinese**

(V.4.5.1) \BibTeX\textit{X} support for Asian scripts: Chinese (both traditional and simplified), Japanese, Korean and Thai, in many encodings (including Unicode). Adds support for BG5+ and GBK character sets, Thai support for Babel, multifeile documents, and much more.

**ctable in biblio/bibtex/contrib**

Provides commands to easily typeset centered table and (multiple-)figure floats, with footnotes.

**decsci.bst in biblio/bibtex/contrib**

Style for the journal *Decision Sciences* for use with the `natbib` package (author-year format citations).

**EPIX in graphics**

Command-driven (non-GUI) preprocessor for creating flexible, mathematically accurate line figures containing mathematical typography. Should run on any UNIX-like operating system; a C++ compiler and GNU Bash are required.

**koma-script**

Reimplementation of the \BibTeX\textit{X} classes (article, report, book, letter), “implementing European rules of typography and paper formats as documented in Tschichold (Selected Papers on Book Design and Typography). New version includes a completely rewritten letter class (`scrlttr2`), enhanced control over captions, support for date and time in Dutch and Croatian, and new developer interface for styling text elements.

**layouts**

Enables display of various elements of a document’s layout including: the general page layout; disposition of floats; layouts of paragraphs, lists,
footnotes, table of contents, and sectional headings; font boxes. Facilities are provided for document designers to experiment with the layout parameters. V.2.6 adds expanded page layout options.

**memoir**

Peter Wilson’s flexible \LaTeX\ documentclass for typesetting of books such as novels, biographies, histories, etc., with options for trim marks, draft appearance, various sizes and much more. V.1.1 adds bug fixes, native support for subfigures, additional facilities for verse typesetting, experimental marginpar-like extensions, and a new edition of the user manual.

**mpp** in web/novew/kostas

A multilingual pretty-printer for noweb.

**neufile**

Provides convenient user level commands for reading and writing new files during a \LaTeX\ run.

**oletex** in systems/win32

Allows embedding of pictures and other OLE objects into \LaTeX.

**placeins.sty** in .../misc

(V.2.0) Now prevents floats from floating up past a `\FloatBarrier`, with an option to restore the original behavior.

**poemscol**

Numbers lines of verse, makes separate endnote sections for emendations, collations, and explanatory notes, with notes tied to the line numbers, marks cases where stanza breaks fall on page breaks. Provides most of the features necessary for a critical edition of a poet’s works, such as described by the MLA Committee on Scholarly Editions.

**skak** in fonts

Package for typesetting chess. V.1.0 has bug fixes and updated documentation: a short user guide, an example and a reference manual listing all available commands and the package options.

**subfiles**

Allows individual typesetting of files that are \input and of the main file without making any changes to them.

**thumbpdf** in support

The package provides support for thumbnails with pdf\TeX, and plain/\TeX formats. Requirements: Perl5, Ghostscript, pdf\TeX. V.3.0 adds: support for `ghostscript` anti-alias parameters, \TeX’s PostScript mode, option `--greek` for Greek style mode and signal handlers added for cleanup.

**tocloft**

Provides control over the typography of the Table of Contents, List of Figures, List of Tables and user defined “List of…” lists. Version 2.3 is compatible with the koma classes and adds control over the page style.

**uk-tex-faq** in help

Updated version also available via the Web at http://www.tex.ac.uk/faq. Includes a new answer from David Kastrup summarizing recent work on the \TeX document preparation environment.

**xmltex** in macros

xmltex is a system for typesetting XML files with \TeX. It may be used on its own or in conjunction with another \TeX format (\BIBLIO\TeX is assumed for most examples). Update to sync with the enhanced version bundled with passive\TeX.

* Mark LaPlante
  109 Turnbrook Drive
  Huntsville, AL 35824
  laplante@mac.com

* William F. Adams
  75 Utley Drive, Ste. 110
  Mechanicsburg, PA 17055
  willadams@aol.com