The Treasure Chest

Packages posted to CTAN

Did you know that CTAN has two different packages for balancing columns? (At least two: `balance` in `.../other/preprint` and `flushend.sty` in `.../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 `...`; for example, `url.sty` (in `macros/latex/contrib/misc`) would be shown as being in `.../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 `.../misc`
LaTeX style file for printing two pages on a single landscape page.

alphanum in `biblio/bibtex/contrib`
Bibliography style that omits the year, and uses a number instead of a letter.

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

bibfind in `biblio/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 LaTeX 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 LaTeX symbols should be easier to find than ever before.

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

gellmu in `support`
LaTeX-like markup for writing XML documents.

hypernat Allows use of `hyperref` and `natbib`.

iahyphen in `language/hyphenation`
Hyphenation patterns for Interlingua.

jadetex Processes the output from Jade/OpenJade in TeX (`-t`) mode. Development has moved to `http://jadetex.sourceforge.net`.

latable in `support`
A near-WYSIWYG editor for LaTeX tables.

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

MiKTeX-WinEdt-TrueType-Anleitung in `info/german`
German information about MiKTeX, 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* (`www.neuron.org`).

pdfcrypt.sty in `.../oberdiek`
Allows the setting of PDF encryption options for pdfTeX and VTeX.

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`
$\mathcal{A}\mathcal{M}\mathcal{S}$-TeX 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. LaTeX 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 LaTeX file.

binhex in `macros/generic/kastrup`
Convert numbers into binary, octal and hex.

bitfield Draws bitfield diagrams.

biocon Aids typesetting of biological species names, and of taxa below the species level.

booklet Provides some aids for printing simple booklets or signatures for longer books.

bundledoc in `support`
This post-processor for the `snapshot` package bundles together all the classes, packages, and files for building a given LaTeX document.

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

crossreference Cross-referencing package to help provide traceability for technical documents, especially Software Requirements Specifications.

dashbox Draws dashed boxes.

datenumber Provides commands to convert a date into a number and vice versa.

ebezier An extension of the (old) package `bezier.sty` which is currently part of LaTeX 2_ε. It defines linear and cubic Bernstein polynomials together with some plotting macros for arcs.

examples in `info/metapost`
A few hundred example pictures drawn with META-POST, ranging from very simple (lines and circles) to rather intricate (uncommon geometric transformations, fractals, bitmaps, etc.).

filecontents The environments `filecontents` and `filecontents*` enable a LaTeX 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 `\documentclass` declaration. This package removes these limitations.

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

framed in `.../misc`
Creates framed or shaded regions that can break across pages.

greenpoint in `fonts`
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.

musixps in `fonts/musixtex/ps-type1`
This package provides PostScript (Type 1) fonts (PFB format), and `dvips` and `dvipdfm` map files for MusiXTeX.

ps2eps in `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).

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

ruhyphen in `language/hyphenation`
Updates to this package for Russian hyphenation.

slideshow This is a set of METAPOST macros which simplify creating a PDF presentation using METAPOST and Ghostscript.

uiucthesis University of Illinois at Urbana-Champaign thesis style.

warning This package provides a command that generates a list of warnings that are printed out at the very end of the logfile. This is useful for notes such as "Rerun for this or that reason" or "This is draft, change this before the final run".

xl2latex in `support`
Convert Excel (97 and above) tables to LaTeX.

September 2001

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.).

brushcr in `fonts`
This Type 1 font, named BrushScriptX-Italic, simulates hand-written characters.

circuit_macros in `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, LaTeX, or similar documents. Some tools and examples for other types of diagrams also included.

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

frankenbundle in `support`
Allows an author to maintain and distribute a bundle of one or more LaTeX packages, classes, BibTeX bibliography styles, documentation, etc.

frankenstein A collection of LaTeX/BibTeX macros.

ifvtex.sty in `.../oberdiek`
Looks for VTeX, defining the conditionals `\ifvtex`, `\ifvtex<mode>`, and `\ifvtexgex`.

JavaBib in `biblio/bibtex/utils`
A BibTeX reference manager written in Java.

register Typesets the programmable elements in digital hardware, i.e., registers.

TkTeXCAD in `graphics`
> A Tk-Python 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/bibtex/utils`
> 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 2ε. Renamed from `texclock`.

cm-super in `fonts/ps-type1`
> Update to the huge CM-Super font package.

eps2pdf in `support`
> Converts EPS files to PDF files.

euro Converts arbitrary national currency amounts using the Euro as a base unit.

frenchle in `language/french`
> Better support for `hyperref` and `pdfscreen`.

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.

mathtimepro in `.../psnfssx`
> For using Y&Y's new math font set MathTimeProfessional with LaTeX.

montexiv in `language/mongolian`
> MonTeX Implementation Level IV offers vertical texts in Mongolian and Manju, intermixed with Latin texts.

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.

pdftricks Support for `pstricks` in pdfTeX.

psgo in `graphics/pstricks/contrib/psgo`
> Draws Go diagrams with LaTeX.

repeatindex Repeats item of an index if a page or column break occurs within a list of subitems.

swline in `macros/generic/swrule.sty`
> Typesets swelled rules: lines that are thicker in the middle than at the ends.

technics For writing technical documents. Uses the `fancyhdr` package to build headers containing document name, prepared by, approved by, etc.

TeXnicCenter in `systems/win32`
> An integrated development environment (IDE) for developing LaTeX documents on Windows.

tipa in `fonts/tipa`
> Updates for Concrete, Palatino, CM Bright, and CM Type 1 TIPA (TeX International Phonetic Association) fonts.

tmmath in `.../psnfssx`
> LaTeX packages for using MicroPress's TM-Math fonts.

tt2001 in `fonts/ps-type1`
> This is a TeX `.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.

underscore Package update adds a `[nohyphen]` option and compatibility with `babel`'s active characters.

November 2001

adrconv Converts BibTeX databases of addresses to the address format used in `scrletter` and `akletter`. It includes a TeX file to print the addresses in different layouts.

anysize 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.

coordsys Provides commands for typesetting number lines (coordinate axes) and coordinate systems in the `picture` environment.

em in `.../psnfssx`
> The PSNFSS support files for the "European Modern" (EM) fonts.

findhyph A Perl program to find all words hyphenated by TeX in a document.

flshort in `info/lshort/french`
> French translation of "The Not Short Introduction to LaTeX 2ε".

frenchpro in `nonfree/languages/french`
> Update to French Pro.

ithyph in `languages/hyphenation`
> Update of the hyphenation patterns for Italian.

jkthesis Just another LaTeX document class for formatting your thesis.

lahyph in `languages/hyphenation`
> Update of the hyphenation patterns for Latin.

latexmk in `support`
> Given the source files for a document, `latexmk` issues the appropriate sequence of commands to generate a `.dvi`, `.ps`, `.pdf` or hardcopy.

minutes Package for writing minutes of meetings.

mxd in `language/mongolian`
> Package for typesetting Xewtee Dorwoljin, a Mongolian script conceived in the 17th century.

ocherokee in `languages/cherokee`
> For typesetting the Cherokee language, including a PostScript version of the official Cherokee font.

pdfcprot A package to activate pdfTeX's character protruding feature.

pdftex_for_oztex in `nonfree/systems/mac/pdftex`
> pdfTeX for OzTeX is a shareware package. This update brings the pdfTeX programs to the 20010806 source code.

pictex2 An extension to standard PiCTeX.

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 `pnmcrop`. This version handles files which have no `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 `.../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 pdfLaTeX.

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 LaTeX into a format understood by the UNIX `man(1)` command. HTML, Texinfo, or LaTeX 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 LaTeX editor. NEdit version 5.2 or later is required.

mattens Vector, matrix and tensor symbols.

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

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

printlen in `.../misc`
Print LaTeX lengths in a variety of units.

venn in `graphics/metapost/contrib/macros`
Macros for Venn diagrams with METAPOST.

January 2002

acroread_new in `support`
(V.1.0) A Perl script to run Acroread under a different name, allowing several instances to be run independently.

antt in `fonts/psfonts/polish`
Antykwa 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 `.../other`
Print CD covers, featuring easy batch printing with crop marks, automatic track numbering and more.

cd-cover in `.../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 `biblio/bibtex/contrib`
A translation of the four standard BibTeX style files (`abbrv`, `alpha`, `plain` and `unsrt`) into Danish. From the Norwegian translation by Dag Langmyhr extended with ISBN and ISSN fields.

epsfx.tex 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.

frhyph.tex 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 `style=C`.

procIAGssymp 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 `\title` and `\author` anywhere in the document. Includes `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 LaTeX documents.

sihyph22.tex in `language/slovene`
Corrected Slovenian hyphenation patterns, as found on `ftp://sizif.mf.uni-lj.si/pub/i18n/tex`. Made by Matjaz Vrecko in 1990, maintained mostly by Leon Zlajpah in the '90s and uploaded on behalf of of Primoz Peterlin.

srcltx 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. LaTeX'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.

vtex 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 `.../webeq`
Formerly the Web/Exerquiz Packages, now bundled together as the "AcroTeX 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 `biblio/bibtex/utils`
Manipulation of BibTeX 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 customizable 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 LaTeX and ConTeXt) 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.

extdash.dtx in `.../ncctools`
Flexible hyphenation of compound words; can conform to Russian typesetting conventions.

g-brief (V.3.0) A document class for LaTeX 2_ε for formless letters in German or English.

guitar (LA)TeX package for typesetting guitar chords over song texts. c.f. `gchords.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 LaTeX 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 LaTeX 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-LaTeX.

nccfoots.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-LaTeX, especially for arrays.

`nccsect.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 typeout, 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.

`nccthm.sty` in `.../ncctools`
>   Extension to the `\newtheorem` 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.

`osa.bst` in `biblio/bibtex/contrib`
>   BibTeX 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 $\mathcal{AMS}$-LaTeX, and makes `\smartref` robust.

`TeX4ht` in `support`
>   An enhanced version of a system for translating (LA)TeX sources into hypertext. Annual upgrade.

`tif2eps` in `support/pstools`
>   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 (LA)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 2_ε thesis class definition for York University (Toronto, Canada).

March 2002

`ama.bst` in `biblio/bibtex/contrib`
>   A modification of the IEEE BibTeX 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.

`CWEBbin` 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.

`dvpn` 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 emTeX/TDS distribution for OS/2, featuring the latest releases of LaTeX, $\mathcal{A}_{\mathcal{M}}\mathcal{S}$-LaTeX 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 LaTeX 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 `dviware`
A `dvi` viewer and printer coded in Java. Needs Java RTE 1.3.

lettrine (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 LaTeX. Fixes `texnansi.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 `\ddots`). Also modifies the `\ddots` and `\vdots` so that they change size with LaTeX's size changing commands and in sub- and superscripts.

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.

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 LaTeX classes.

newlfm For creating letters, faxes and memos; integrates the `letter` class with `fancyhdr` and `geometry` and includes support for an address database, languages, Avery 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 LaTeX environments `itemize` and `enumerate` can be extended to use a similar optional argument. V.2.3b 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 LaTeX.

sffms 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 inside LaTeX. V.1.13 gives suitable warnings for files listed in an `\RequireVersions` 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 LaTeX.

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 LaTeX.

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 `yhmath` package.

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captcont 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.

ccaption 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 LaTeX'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 vitæ (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 TEXnische 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 LaTeX 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 $\mathcal{AMS}$-TEX.

gloss Allows creation of glossaries via BibTEX.

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 LaTeX 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 LaTeX document. For LaTeX2HTML users, `rcsinfo.perl` adds the functionality to that tool. With V.1.9, the initial `\$` of `\$Id` may be omitted.

shorttoc Adds the macro `\anothertableofcontents` (or `\anothertoc`) 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`
METAFONT version of a skull-and-crossbones symbol, with LaTeX 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 `tocloft` and the `ccaption` packages when used with the `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 `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.

textopo 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 sidechains. 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`-savvy, 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 BibTeX 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 MikTeX or TeX Live.

wp2latex in `support`
Conversion from Wordperfect 6–8 into LaTeX. Update adds many new features: support for style `epsfig.sty`, fixed problem with filenames, working RTF parser, small attempt to do handle raster images, Windows GUI, ability to read WP3.x Macintosh files, etc.

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BSR2dvi in `dviware`
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."

catdvi in `dviware`
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 `dvi2tty` 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.

dtxtut in `info`
"How to Package Your LaTeX Package"—a tutorial for advanced LaTeX 2_ε users who want to learn how to create `.dtx` and `.ins` files for distributing their homebrewed classes and style files.

euro-ce 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 LaTeX style to access it. V.1.3 adds Type 1 fonts generated by `textrace` and modified by `pfaedit`.

fontinst-prerelease in `fonts/utilities`
Update for the font installation package which includes up-to-date `8y.etx` and `8r.etx` files, with the Euro symbol.

gradback A small addition to `pstricks` to generate gradient backgrounds.

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

logfilter in `nonfree/support`
A Java program that monitors the logfiles produced during a typesetting run and presents them in an interactive environment with the option when encountering an error in a file to open that file in an editor at the proper point in the file.

lshort in `info/lshort/slovak`
A translation of `lshort` (*The Not So Short Introduction to LaTeX 2_ε*) into Slovak.

manuscript Package for recreating the appearance of a typewritten (monospaced with double linespacing) `article` manuscript.

mathpazo in `fonts`
Package (fonts and LaTeX style file) for mathematical typesetting with the Palatino fonts. V.1.003 for

use with version 9 of PSNFSS; also fills out Math Blackboard Bold, re-designed `\Phi`, `\varsigma`, `\xi` and `\zeta`.

mn2eguide in `nonfree/macros/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`.

mwcls Standard LaTeX classes, tailored to Polish printing customs.

ntheorem (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 co-ordinate the processing and viewing of TeX, LaTeX, METAFONT and METAPOST-sources.

psnfss in `macros/latex/required`
Version 9 of the PSNFSS system, supporting the use of the base 35 PostScript fonts and the Charter, Utopia and Pazo fonts with LaTeX. The `TeXBase1` encoding now includes the Euro symbol, `\hbar` 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`.

SQLTeX in `support`
A well documented Perl preprocessor to enable the use of SQL statements in LaTeX. 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 teTeX. 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`.

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astro in `fonts`
(V.2.00) METAFONT 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) LaTeX 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, multifile 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 LaTeX 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/noweb/kostas`
A multilingual pretty-printer for `noweb`.

newfile 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 pdfTeX, and plain/LaTeX formats. Requirements: Perl5, Ghostscript, pdfTeX. V.3.0 adds: support for `ghostscript` anti-alias parameters, VTeX'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 (LaTeX is assumed for most examples). Update to sync with the enhanced version bundled with passiveTeX.

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