

```

%
\def\cm{\!cma\begingroup%
%
% The category codes are temporarily
% changed back to their original values.
%
\catcode'\(=12%
\catcode'\)=12%
\catcode'\*=12%
\catcode'\+=12%
\catcode'\-=12%
\catcode'\:=12%
\catcode'\;=12%
\catcode'\<=12%
\catcode'\>=12%
\catcode'\|=12%
\catcode'\/=12%
\catcode'\ "=12%
\catcode'\^M=5%
\catcode'\ =10%
\catcode'\!=12%
%
\def\bhinge{\!cmtbhinge}%
\def\ehinge{\!cmtehinge}%
%
\!cmb}%
%
% Now = is redefined. Had this been done
% earlier, then it would have affected
% the previous definitions, since many
% of them contain =.
%
\catcode'\==\active\!defequ%
%
\apebodyfont\!apebline%
%
}% end of definition of \apebegin
%
\gdef\apeend{\!apeeline\endgroup}%
%
\gdef\ap{\begingroup%
\def\apekeywordfont{\apkeywordfont}%
\def\apecommentfont{\apcommentfont}%
\def\apebodyfont{\apbodyfont}%
\def\apehspace{\aphspace}%
\def\apelmargin{Opt}%
\apebegin\!ap%
}%
%
% The reason for letting \!ap take over
% from \ap at this point is to make TeX
% scan the argument with the correct
% category codes.
%
}% This ends the environment in which the
% macros are defined.
%

```

# L<sup>A</sup>T<sub>E</sub>X

## Contents of Archive Server as of 16 January 1989

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Several changes to the L<sup>A</sup>T<sub>E</sub>X Archive have been made since the last TUGboat. It has been split into several different subarchives: L<sup>A</sup>T<sub>E</sub>X style files; T<sub>E</sub>X style files; A<sub>M</sub>S-T<sub>E</sub>X style files; B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> style files; B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> 0.98 style files; T<sub>E</sub>X programs. Also there are several new archives: A<sub>M</sub>S-T<sub>E</sub>X source; B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> source; CM fonts source; L<sup>A</sup>T<sub>E</sub>X source; T<sub>E</sub>X documentation; T<sub>E</sub>X inputs; T<sub>E</sub>X source; T<sub>E</sub>X tests; TUGboat files; T<sub>E</sub>Xhax digests; T<sub>E</sub>XMaG digests; UK<sub>T</sub>E<sub>X</sub> digests.

As always, submissions are encouraged. If you do submit a file please include at the top of the file: your name; your email address; your real address; the date. Also please make certain that there are no lines in the file longer than 80 characters as some mailers will truncate them. Mail should be sent to

mrd@sun.soe.clarkson.edu  
archive-management@sun.soe.clarkson.edu

### For Internet users: How to ftp

An example session is shown at the bottom of the following page. Users should realize that ftp syntax varies from host to host. Your syntax may be different. The syntax presented here is that of Unix ftp. Comments are in parentheses. The exact example is for retrieving files from the L<sup>A</sup>T<sub>E</sub>X Archive; the syntax is similar for the other archives, only the directories differ. The directory for each archive is given in its description.

### Non-Internet users: How to retrieve by mail

To retrieve files or help documentation, send mail to archive-server@sun.soe.clarkson.edu with the body of the mail message containing the command help or index or send. The send command must be followed by the name of the archive and then the files you want. Users who are not in the uucp maps database are strongly encourage to include a path command followed by a path from Clarkson to you in domain style format. If you don't include a path command, your mail may not get to you and will definitely be delayed as Michael will have to mail it by hand. You should realize that Clarkson does not have a uucp connection; therefore you must send it to an Internet or Bitnet



**Contents of the CM Fonts**

This contains the METAFONT files needed to build the CM fonts. It is a duplicate directory of `tex.cm` on Score. Files are located in `pub/cm-fonts` for ftp users. Mail users should request files from the `cm-fonts` archive.

**Contents of the L<sup>A</sup>T<sub>E</sub>X Source**

This contains the T<sub>E</sub>X files needed to build L<sup>A</sup>T<sub>E</sub>X. It is a duplicate directory of `tex.latex` on Score. Files are located in `pub/lamport` for ftp users. Mail users should request files from the `lamport` archive.

**Contents of the T<sub>E</sub>X Documentation**

This contains documentation on T<sub>E</sub>X. It is a duplicate directory of `tex.doc` on Score. Files are located in `pub/tex-doc` for ftp users. Mail users should request files from the `tex-doc` archive.

**Contents of the T<sub>E</sub>X Inputs**

This contains the T<sub>E</sub>X files needed to build plain T<sub>E</sub>X. It is a duplicate directory of `tex.inputs` on Score. Files are located in `pub/tex-inputs` for ftp users. Mail users should request files from the `tex-inputs` archive.

**Contents of the T<sub>E</sub>X Source**

This contains the WEB files needed to build T<sub>E</sub>X. It is a duplicate directory of `tex.web` on Score. Files are located in `pub/tex-source` for ftp users. Mail users should request files from the `tex-source` archive.

**Contents of the T<sub>E</sub>X Tests**

This contains the files needed to test T<sub>E</sub>X using the `triptest`. It is a duplicate directory of `tex.tests` on Score. Files are located in `pub/tex-tests` for ftp users. Mail users should request files from the `tex-tests` archive.

**Contents of the TUGboat Files**

This contains files related to TUGboat. It is a duplicate directory of `tex.tugboat` on Score. Files are located in `pub/tugboat` for ftp users. Mail users should request files from the `tugboat` archive.

**Contents of the T<sub>E</sub>Xhax Digests**

This contains all of the back issues of T<sub>E</sub>Xhax. Files are located in `pub/texhax` for ftp users. Mail users should request files from the `texhax` archive.

**Contents of the T<sub>E</sub>XMaG Digests**

This contains all of the back issues of T<sub>E</sub>XMaG. Files are located in `pub/tevmag` for ftp users. Mail users should request files from the `tevmag` archive.

**Contents of the UKT<sub>E</sub>X Digests**

This contains all of the back issues of UKT<sub>E</sub>X. Files are located in `pub/uktex` for ftp users. Mail users should request files from the `uktex` archive.

**Contents of the L<sup>A</sup>T<sub>E</sub>X Style Collection**

This contains files that are specific to L<sup>A</sup>T<sub>E</sub>X. Most of these are style files but some of them are programs. Some of the files support BIBT<sub>E</sub>X style files that are in the BIBT<sub>E</sub>X Collection or the BIBT<sub>E</sub>X 0.98 Collection. Files are located in `pub/latex-style` for ftp users. Mail users should request files from the `latex-style` archive.

`a4.sty` Set page size to A4  
`a4wide.sty` Set page size to A4 with narrow margins (needs `a4.sty`)  
`a5.sty` Sets A5 page size (use only with 10pt)  
`a5comb.sty` Sets A4 page style but for spirally-bound documents (bigger inner margins)(needs `a5.sty`)  
`aaai-doc.tex` Style file for *AAAI conference 1988*  
`aaai.sty` (BIBT<sub>E</sub>X style in `bibtex-style` and `bibtex-style-0.98`)  
`aip.sty` For American Institute of Physics journals  
`agugrl-sample.tex`  
`agugrl.sty` *AGU Geophysical Research Letters*  
`agujgr-sample.tex`  
`agujgr.sty` *AGU Journal of Geophysical Research*  
`album.shar` For printing cassette labels  
`allegno.sty` Makes all displayed equations numbered by default  
`alltt.sty` Like `verbatim`, but permits other commands inside  
`amssymbols.sty` Load the AMS fonts  
`apalike.sty` *American Psychological Association* (BIBT<sub>E</sub>X style in `bibtex-style`)  
`bihead.sty` Underlined heading  
`boxedminipage.sty` Puts a box round a minipage  
`bsf.sty` Provide access to bold sans serif fonts in L<sup>A</sup>T<sub>E</sub>X  
`captcont.sty` Needed by `lcustom.tex`. Creates a caption without updating any counters

- changebar.sty** Changebars for L<sup>A</sup>T<sub>E</sub>X  
**chapterbib.sty** Allow L<sup>A</sup>T<sub>E</sub>X and B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> to produce separate bibliographies for each chapter  
**cyrillic.sty** Load Cyrillic font  
**deprocldc.tex**  
**deproc.sty** *DEC Users Proceedings*  
**draft.sty** Draft option for documents for *debugging*  
**drafthead.sty** Prints **DRAFT** in heading  
**drop.sty** For making large dropped initials for starting paragraphs  
**doublepace.sty** Double spacing in text  
**eepic10.shar** A picture environment that uses tpic specials  
**env.sty** For printing on envelopes  
**epic1.shar** Shar archive of an extended picture environment  
**epic2.shar**  
**equations.sty** Macros to aid in constructing displayed equations in L<sup>A</sup>T<sub>E</sub>X  
**espo.sty** For Esperanto  
**figplace.tex** T<sub>E</sub>X macros to handle floating insertion  
**fixup.sty** Fix up plain's \bigl, etc. to track L<sup>A</sup>T<sub>E</sub>X size changes  
**flowchart.sty** For writing flow charts  
**fnpara.sty** Sets footnotes as paragraphs  
**format.sty** Print FP numbers in fixed format  
**frontiers.sty** For *Frontiers '88 Symposium* and other IEEE conferences  
**fullpage.sty** Gives one inch margins  
**german.sty** For German  
**greek1.shar** Shar file to help Greek users of L<sup>A</sup>T<sub>E</sub>X  
**greek2.shar**  
**headerfooter.sty** Adds the capability of underlining the heading, ala the L<sup>A</sup>T<sub>E</sub>X manual  
**icassp.sty** For the *ICASSP '89 Conference* and possibly other IEEE conferences  
**insertplot.readme**  
**insertplot.sty** Macros for inserting PostScript in files printed with Arbortext's DVIPS.  
**iso-doc.tex** For use by those writing ISO standards  
**iso.sty**  
**iso9.sty**
- ist21.sty** IST21 document style option for cover page  
**jbs.sty** For *The Journal of Business Strategies*  
**layout.readme**  
**layout.tex** Prints nice diagram showing page parameters of L<sup>A</sup>T<sub>E</sub>X  
**lcustom.tex** Useful macros and definitions for L<sup>A</sup>T<sub>E</sub>X  
**local-suppl.tex** Supplement to local guide that describes lcustom.tex, sfwmac.sty, tgrind.sty, trademarks.sty xxxcustom.tex, xxxslides.sty  
**lfonts\_ams.readme**  
**lfonts\_ams.tex** Use AMS symbols in L<sup>A</sup>T<sub>E</sub>X  
**manual.readme**  
**manual.sty** Like "book" but for manuals. You should read the documentation for  
**man10.sty** "book" to learn how to use this  
**man11.sty** style file  
**man12.sty**  
**memo.sty** Memo and "memo for the record"  
**mfr.sty** style option  
**merge.sty** Form letter option to L<sup>A</sup>T<sub>E</sub>X letter style  
**mitthesis-sample.tex**  
**mitthesis.sty** Massachusetts Institute of Technology thesis format  
**multibox.sty** Provides multiple boxes in pictures  
**natsci.sty** Natural sciences (B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> file in bibtex-style-0.98)  
**nl.sty** For Dutch  
**nofm.sty** For "n of m" style pagination  
**nopagenumbers.sty** Remove page numbers  
**pslatex.shar** Use printer resident PostScript fonts. Requires dvi2ps that understands PostScript fonts.  
**remark.sty** Like newtheorem but no \it  
**resume-sample.tex**  
**resume.sty** A format for doing resumes  
**romanneg.sty** Roman-numbered pages get negative page numbers (useful when selecting only part of a document to be printed)  
**rotate.sty** Rotation of T<sub>E</sub>X output with *Textures* (and maybe other PostScript drivers)  
**sc21-wg1.sty** ISO/TC97/SC21 document style  
**sc21.sty** option for cover page  
**schedule.sty** Style for generating schedule sheets  
**screen.sty** Helps create a document suitable for screen previewing

**semitic.sty** Used to set Semitic languages  
**sfwmac.sty** Useful macros for Unix documentation  
**showlabels.sty** Shows labels and references to them  
**slm.sty** Change \sl to \em  
**siam10.sty** Document style for SIAM  
**siam11.sty** (Society for Industrial and Applied  
**siam12.sty** Mathematics). (BIBTEX style in  
**siam.sty** bibtex-style)  
**siam.tex**  
**siam.bib**  
**spacecites.sty** Put spacing between citations  
**subeqn.sty** Allows related equations to be numbered with the same number but further qualified by a,b,c etc.  
**subeqnarray.sty** Allows related eqnarrays to be numbered with the same number but further qualified by a,b,c etc.  
**subfigure.sty** Allows related figures to be numbered with the same number but further qualified by a,b,c etc.  
**supertab.sty** Allows multipage tabulars  
**suthesis.sty** Stanford University thesis style  
**svma-doc.tex** Style for Springer-Verlag reports.  
**svma.sty** svma is for multiple authors; svsa  
**svsa.sty** is for single author  
**tables-doc.tex**  
**tables.sty** Ruled and unruled tables made easy  
**texnames.sty** Define a couple more L<sup>A</sup>T<sub>E</sub>X names  
**tgrind.sty** Tgrind macros for L<sup>A</sup>T<sub>E</sub>X instead of T<sub>E</sub>X  
**threepart.sty** Three part page headers  
**trademarks.sty** Definitions of common trademarks  
**twoup.sty** Change the page sizes so that two pages can fit onto one page with the help of dvidvi  
**ucthesis.readme**  
**ucthesis.sty** A document style for the  
**uct10.sty** University of California thesis with  
**uct11.sty** documentation and support files.  
**uct12.sty**  
**ukdate.sty** Changes the \today command to UK format  
**vdm-doc.tex** Vienna Development Method  
**vdm.sty**

**xxxcustom.tex** Supplementary macros for xxx-tex, for some xxx  
**xxxslides.sty** Supplementary macros for SL<sub>T</sub>E<sub>X</sub>, includes slides.sty

### Contents of the T<sub>E</sub>X Collection

This contains style files for plain T<sub>E</sub>X. Files are located in pub/tex-style for ftp users. Mail users should request files from the tex-style archive.

**celluar.tex** Macros to allow for both vertical  
**celluar.doc** and horizontal spans within a ruled  
**cell1.tex** table and take steps to prevent  
**cell2.tex** "nubs" and "gaps" when rules are  
**cell3.tex** used  
**cell4.tex**  
**dayofweek.tex** Macros to compute day of week and phases of the moon. Examples of how to use T<sub>E</sub>X arithmetic capabilities  
**deprocdoc.tex**  
**deproc.tex** *DEC Users Proceedings*  
**epigram.tex** Print text either centered or in a displayed paragraph  
**fnpara.tex** Sets footnotes as paragrahs  
**hyphen-nederlands.tex** A dutch hyphen.tex  
**texinfo.tex** T<sub>E</sub>X macros to handle Gnu texinfo files  
**select.tex** Selectively print pages in a T<sub>E</sub>X document

### Contents of the A<sub>M</sub>S-T<sub>E</sub>X Collection

This contains style files specific to A<sub>M</sub>S-T<sub>E</sub>X users. Files are located in pub/amstex-style for ftp users. Mail users should request files from the amstex-style archive.

**amstexsiam-sample.tex**  
**amstexsiam-doc.tex**  
**amstexsiam.sty** For SIAM (Society for Industrial and Applied Mathematics)  
**imappt-sample.tex**  
**imappt.sty** For reports and preprints on 8.5  
**imappt-doc.tex** by 11 inch paper

### Contents of the BIBTEX Collection

This contains files that are specific to version 0.99 of BIBTEX. Many of these files are to be used with files in the L<sup>A</sup>T<sub>E</sub>X Collection. Files are located in pub/bibtex-style for ftp users. Mail users should request files from the bibtex-style archive.

<code>acm.bst</code>	Association for Computing Machinery	<code>rscsencode.shar</code>	Programs to encode and decode files with rscs
<code>aaai-named.bst</code>	AAAI conference	<code>uencode.shar</code>	Programs to encode and decode files
<code>apalike.bst</code>	American Psychological Association (L <sup>A</sup> T <sub>E</sub> X style file in <code>latex-style</code> )	<code>texindex.shar</code>	Style file and processor for index entries for VMS
<code>cpp.el</code>	A C preprocessor written for GnuEmacs for use in generating B <sub>I</sub> B <sub>T</sub> E <sub>X</sub> style files from a master file	<code>wsltex.shar</code>	Wordstar to L <sup>A</sup> T <sub>E</sub> X filter, C and Pascal versions
<code>ieeetr.bst</code>	IEEE Transactions		
<code>makebst.sh</code>	A shell script to make bibtex style files from a master bst file		
<code>physics.btx</code>	Various physics journals; must be run through <code>cpp.el</code> or <code>makebst.sh</code>		
<code>siam.bst</code>	SIAM (L <sup>A</sup> T <sub>E</sub> X style in <code>latex-style</code> )		

### Contents of the B<sub>I</sub>B<sub>T</sub>E<sub>X</sub> 0.98 Collection

This contains files that are specific to version 0.98 of B<sub>I</sub>B<sub>T</sub>E<sub>X</sub>. Many of these files are to be used with files in the L<sup>A</sup>T<sub>E</sub>X Collection. Files are located in `pub/bibtex-style-0.98` for ftp users. Mail users should request files from the `bibtex-style-0.98` archive.

<code>aaai-named.bst</code>	AAAI conference 1988 (L <sup>A</sup> T <sub>E</sub> X style file in <code>latex-style</code> )
<code>btxbst.readme</code>	
<code>btxbst.doc</code>	A master file for B <sub>I</sub> B <sub>T</sub> E <sub>X</sub> styles with standard styles and some new ones
<code>natsci.bst</code>	Generic natural sciences (L <sup>A</sup> T <sub>E</sub> X style file in <code>latex-style</code> )
<code>newalpha.bst</code>	Modified alphabetic

### Contents of the T<sub>E</sub>X Programs

This contains programs that are of general interest to T<sub>E</sub>X users in general. Files are located in `pub/tex-programs` for ftp users. Mail users should request files from the `tex-programs` archive.

<code>docsty.shar</code>	Program to convert <code>.doc</code> to <code>.sty</code> by stripping comments
<code>dvidoc1.shar</code>	DVI to character device filter for Unix BSD systems
<code>dvidoc2.shar</code>	Unix BSD systems
<code>dvidvi.shar</code>	Program to select pages from dvi files or print multiple pages on a single page
<code>fig2epic1c.shar</code>	Converts fig code to epic or eepic files
<code>lgraph.shar</code>	Data to graph command filter in Pascal
<code>pcwritex.uue</code>	PC-Write to T <sub>E</sub> X interface that has been uencoded