Using T_EX

To do what it was never really intended to do

With custom-bib as an example

Patrick W. Daly

Abusing TEX

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 - email (sender unknown) to Helmut Kopka.
- So this is where the abuse begins.

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- Existing examples of such 'programs' are:
 - fontinst by Alan Jeffrey and Rowland McDonnell, used to generate the necessary font metric and installation files for PostScript fonts;
 - docstrip by Frank Mittelbach, Johannes Braams, Denys Duchier, Marcin Woliński, Mark Wooding for extracting code from documented sources.

Pros and cons

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- ✓ The major advantage of programming with T_EX is *portability*; no other program is needed.
- **X** The major disadvantage is *slowness*; also difficulty in programming.
- ➤ For programs applying directly to T_EX and Lagarantees and package installations, portability outweighs speed.

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 - # it is an application of docstrip (this is merlin)
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 options (this is makebst)
- The latter is the more interesting and complicated part.

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- Every publisher, journal has its own requirements, with fiddly little differences, each requiring a separate .bst file.
- Nelson Beebe has provided some 50 style files for various journals and applications, but this does not exhaust all the possibilities.
- What is the regular user to do when demands something that is not available? Creating or hacking the existing .bst files is a daunting experience.

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- For example the emphasize function in the standard plain.bst contains the simple code:
- while in merlin.mbs, the equivalent code is:

```
FUNCTION {emphasize}
%<*!em-x>
{ duplicate$ empty$
  { pop$ "" }
%<em-ul> { "\uline{" swap$ * "}" * }
%<*!em-ul>
%<*!nfss>
%<!em-it> { "{\em " swap$ * "\/}" * }
%<em-it> { "{\it " swap$ * "\/}" * }
%</!nfss>
%<*nfss>
%<!em-it> { "\emph{" swap$ * "}" * }
%<em-it> { "\textit{" swap$ * "}" * }
%</nfss>
%</!em-ul>
   if$
}
%</!em-x>
%<em-x>{ skip$ }
```

Solution: Master Bibliography Style File

- I invented the .mbs files to be .bst files with alternative coding, selectable with docstrip options.
- For example the emphasize function in the standard plain.bst contains the simple code:
- while in merlin.mbs, the equivalent code is:
- By selecting none of the options em-it, em-x, em-ul, nfss, one obtains the original code by default.

Alternative coding for .bst files is not a new idea.

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- Charles Karney has a physics.bst with 30 options to generate .bsts for various journals
- Both of these are meant to be processed with the C preprocessor program (not TEX!) to produce the selected output.
- I have converted both to .mbs for docstrip processing, simply as an exercise.

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```
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From merlin.mbs:
FUNCTION {bbl.editor}
%<!ed>{ "editor" }
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```
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- The docstrip job makes two passes through merlin, inserting the language file in between.

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- Support for other languages: all explicit words are stored in functions, which can be redefined as needed.
- The language redefinitions are contained in files like finnish.mbs
- The docstrip job makes two passes through merlin, inserting the language file in between.
- A choice of predefined abbreviations for journal names may also be inserted between the 2 passes.

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- Hence it was necessary to find some other way to let the user interface easily to this mammoth set of choices.
- **Makebst** to the rescue! And TEX is abused once more.

Running makebst.tex with T_EX or Lagrange T_EX produces an interactive session to allow the user to generate a docstrip batch job by answering a seemly endless list of questions.

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• First comes a welcoming message, an offer to print help, and the chance to enter the name of the .mbs file.

Thomakohet toy (ToV) program

```
This is Make Bibliography Style *
It makes up a docstrip batch job to produce
a customized .bst file for running with BibTeX
Do you want a description of the usage? (NO)
Enter the name of the MASTER file
(default=merlin.mbs)
\mfile=
```

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- First comes a welcoming message, an offer to print help, and the chance to enter the name of the .mbs file.
- Next, one enters the name of the output .bst file, and can enter a line of explanatory text.

The makebst.tex (T_FX) program

```
Name of the final OUTPUT .bst file?
Ru
   (default extension=bst)
ses
an
   \ofile=mystyle
   Give a comment line to include in the style
   file.
   Something like for which journals it is
   applicable.
   \ans=For journals of MY house
```

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- The user then selects a language file. If this is merlin itself, the language will be English.

Running makebst.tex with TEX or LATEX produces an interactive sessi
EXTERNAL FILES:
answ
Name of language definition file
(default=merlin.mbs)
t
Cfile=german
Name of language file:
Cfile=german.mbs.

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- The user then selects a language file. If this is merlin itself, the language will be English.
- Then one has the chance to add files with prestored journal abbreviations.

```
Include file(s) for extra journal names?
                                          (NO)
\n
File to include (default=physjour, geojour,
photjour.mbs)
\jfile=
Name of included files: \jfile=physjour,
geojour, photjour,.mbs.
```

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Now the real questioning begins.

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• It is to be numerical or author-year citations?

```
STYLE OF CITATIONS:
(*) Numerical as in standard LaTeX
(a) Author-year with some non-standard interface
(b) Alpha style, Jon90 or JWB90 for single or
multiple authors
(o) Alpha style, Jon90 even for multiple authors
(f) Alpha style, Jones 90 (full name of first author)
(c) Cite key (special for listing contents of bib
file)
Select:
\ans=a
  You have selected: Author-year
```

interrogation continues...

Now the real questioning begins.

- It is to be numerical or author-year citations?
- If author-year, which support system?

```
AUTHOR--YEAR SUPPORT SYSTEM (if author-year
citations)
(*) Natbib for use with natbib v5.3 or later
(o) Older Natbib without full authors citations
(1) Apalike for use with apalike.sty
(h) Harvard system with harvard.sty
(a) Astronomy system with astron.sty
(c) Chicago system with chicago.sty
(n) Named system with named.sty
(d) Author-date system with authordate1-4.sty
Select:
\ans=
  You have selected: Natbib
```

- It is to be numerical or author-year citations?
- If author-year, which support system?
- And onwards and onwards. Like order of authors,

```
ORDERING OF REFERENCES (if author-year citations)
(*) Alphabetical by all authors
(1) By label (Jones before Jones and James before
Jones et al)
(k) By label and cite key instead of label and title,
as above
(d) Year ordered and then by authors (for publication
lists)
(r) Reverse year ordered and then by authors (most
recent first)
(c) Citation order (unsorted, only meaningful for
numericals)
Select:
\ans=k
   You have selected: By label and cite key
```

- It is to be numerical or author-year citations?
- If author-year, which support system?
- And onwards and onwards. Like order of authors,
- and style of giving their names.

```
AUTHOR NAMES:
(*) Full, surname last (John Frederick Smith)
(f) Full, surname first (Smith, John Frederick)
(i) Initials + surname (J. F. Smith)
(r) Surname + initials (Smith, J. F.)
(s) Surname + dotless initials (Smith J F)
(x) Surname + pure initials (Smith JF)
(y) Surname + spaceless initials (Smith J.F.)
(a) Only first name reversed, initials (AGU style:
Smith, J. F., H. K. Jones)
(b) First name reversed, with full names (Smith, John
Fred, Harry Kab Jones)
Select:
\ans=r
  You have selected: Surname + initials
```

- It is to be numerical or author-year citations?
- If author-year, which support system?
- And onwards and onwards. Like order of authors,
- and style of giving their names.
- Finally after about 70 such questions, the end is reached.

Now the real questioning begins.

```
Finished!!

Batch job written to file 'mystyle.dbj'

Shall I now run this batch job? (NO)

yn=n

and style of giving them names.
```

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- It starts by defining the pre- and post-ambles and setting up the files to be read and output. This is stored in \MBopts.

```
\input docstrip
     \preamble
       For journals of MY house
     \endpreamble
Shal
     \postamble
    End of customized bst file
                                                 ıd
     \endpostamble
     \def\MBopts{\from{merlin.mbs}{%
       head, \MBopta}
    \from{german.mbs}{\MBopta}
    \from{physjour.mbs}{\MBopta}
    \from{geojour.mbs}{\MBopta}
    \from{photjour.mbs}{\MBopta}
    \from{merlin.mbs}{tail,\MBopta}}
```

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- The batch file is also a protocol of the makebst session, and can be edited at will.
- It starts by defining the pre- and post-ambles and setting up the files to be read and output. This is stored in \MBopts.
- The macro \MBopta contains all the selected options. It is listed with all possible options present, the unused ones commented out.

```
\def\MBopta{%
    exlang%: External language file
    %STYLE OF CITATIONS:
    % %: (def) Numerical
    ,ay%: Author-year
    % ,alph%: Alpha style, Jon90 or JWB90
Shal
    % ,alph,alf-1%: Alpha style, Jon90
                                               ld
    % ,alph,alf-f%: Alpha style, Jones90
    % ,cite%: Cite key
    %AUTHOR--YEAR SUPPORT SYSTEM
    ,nat%: Natbib
    % %: (def) Older Natbib
    % ,alk%: Apalike
    % ,har%: Harvard
    % ,ast%: Astronomy
    % ,cay%: Chicago
    % , nmd%: Named
    % , cn%: Author-date
```

```
%EMPHASIS: (affects all so-called italics)
%: (def) Use emphasis
% ,em-it%: Use true italics
% ,em-x%: No italics
% ,em-ul%: Underlining
%NEW FONT SELECTION SCHEME:
%: (def) No NFSS
% ,nfss%: NFSS
}
```

commented out.

Shall we take a look inside the batch file?

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- Finally, the generation command is given.

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```
\generate{\file{mystyle.bst}{\MBopts}}
\endbatchfile
```

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- The macro \MBopta contains all the selected options. It is listed with all possible options present, the unused ones commented out.
- Finally, the generation command is given.

Merlin means

The merlin.mbs file does more than just act as input to docstrip.

It contains all the information for the interactive session, the questions, the choices, translations of the responses into actual options.

```
\beginoptiongroup{STYLE OF CITATIONS:}{}
\optdef{*}{}{Numerical}{as in standard LaTeX}
\optdef{a}{ay}{Author-year}{with some non-standard
interface }
\optdef{b}{alph}{Alpha style, Jon90 or JWB90}{for
single or multiple authors}
\optdef{o}{alph,alf-1}{Alpha style, Jon90}{even for
multiple authors}
\optdef{f}{alph,alf-f}{Alpha style, Jones90}{(full
name of first author)}
\optdef{c}{cite}{Cite key}{(special for listing
contents of bib file)}
\getans
\endoptiongroup
\if\ans a\numericalfalse\else\numericaltrue\fi
\if\ans b\mytempfalse \else\mytemptrue \fi
```

```
\beginoptiongroup{AUTHOR--YEAR SUPPORT SYSTEM
(if author-year citations)}
{\ifnumerical\else*\fi}
\optdef{*}{nat}{Natbib}{for use with natbib v5.3 or
later}
\optdef{o}{}{Older Natbib}{without full authors
citations}
\optdef{1}{alk}{Apalike}{for use with apalike.sty}
\optdef{h}{har}{Harvard}{system with harvard.sty}
\optdef{a}{ast}{Astronomy}{system with astron.sty}
\optdef{c}{cay}{Chicago}{system with chicago.sty}
\optdef{n}{nmd}{Named}{system with named.sty}
\optdef{d}{cn}{Author-date}{system with
authordate1-4.sty}
\getans
```

- It contains all the information for the interactive session, the questions, the choices, translations of the responses into actual options.
 - % I.e., makebst.tex serves as an interface to the information in merlin.mbs,

- It contains all the information for the interactive session, the questions, the choices, translations of the responses into actual options.
 - % I.e., makebst.tex serves as an interface to the information in merlin.mbs,
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- It contains all the information for the interactive session, the questions, the choices, translations of the responses into actual options.
 - % I.e., makebst.tex serves as an interface to the information in merlin.mbs,
 - is not bound to any particular .mbs file,
 - meed not be changed when merlin.mbs is updated.

- * MAGIC *...
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 - When read by the documentation driver, it must deliver the documentation.
 - When read by makebst, only the menu information must be visible.
 - When processed by docstrip, only the alternative coding may be handled.

- Merlin must react differently depending on how it is read:

 - When read by the documentation driver, it must deliver the documentation.
 - When read by makebst, only the menu information must be visible.
 - When processed by docstrip, only the alternative coding may be handled.
- How is this accomplished?

I'm not revealing all my tricks today!

Support from American Physical Society

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- Version 4 of merlin.mbs has been supported by the APS
- with code added by David Carlisle and Arthur Ogawa.
- The additions are employed by the APS in its RevT_EX collection, for their electronic journals.

Language support for custom-bib

The following (mostly contributed) language files exist:

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catalan.mbs dansk.mbs dutch.mbs
english.mbs esperant.mbs finnish.mbs
french.mbs german.mbs italian.mbs
norsk.mbs polski.mbs portuges.mbs
slovene.mbs spanish.mbs

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```
catalan.mbs dansk.mbs dutch.mbs
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norsk.mbs polski.mbs portuges.mbs
slovene.mbs spanish.mbs
```

Others are welcomed. (Note: english.mbs serves only as a template for others.)

Prestored journal abbreviations

These are stored in the files:

geojour.mbs photjour.mbs physjour.mbs
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They define abbreviations for journal names, in both full and short forms, selectable with one of the docstrip options.

Droctored journal abbreviations

```
%<*jabr>
. . . . .
MACRO {jgr} {"J. Geophys. Res."}
. . . . .
%</jabr>
%<*!jabr>
. . . .
MACRO {jgr} {"Journal of Geophysical Research"}
. . . . .
%</!jabr>
```

Prestored journal abbreviations

These are stored in the files:

geojour.mbs photjour.mbs physjour.mbs
suppjour.mbs

They define abbreviations for journal names, in both full and short forms, selectable with one of the docstrip options.

To get a list of the journals and their abbreviations...

... process (with T_EX) the supplied file shorthnd.ins.

- \dots process (with T_EX) the supplied file shorthid.ins.
 - This generates shorthnd.tex from the current .mbs files, using docstrip once more,

- \dots process (with T_EX) the supplied file shorthind.ins.
 - This generates shorthnd.tex from the current .mbs files, using docstrip once more,
 - which when processed with LaTEX, gives a listing of the abbreviations with full translations.

pre	Physical Review E
ps	Physica Scripta
procrsl	Proceedings of the Royal Society of
	London
rmp	Reviews of Modern Physics
rsi	Review of Scientific Instruments
science	Science
sciam	Scientific American
sam	Studies in Applied Mathematics
sjpp	Soviet Journal of Plasma Physics
spd	Soviet Physics–Doklady
sptp	Soviet Physics—Technical Physics
spu	Soviet Physics–Uspeki
st	Sky and Telescope

File: geojour.mbs, version: 2002/07/10 2.0h (PWD)

Advances in Space Research aisr Annales Geophysicæ ag Annali di Geofisica anigeo Annals of Glaciology angl Annalen der Meteorologie andmet Annales de Geophysique andgeo Annales de Physique andphy Archiv für Meteorologie, Geophysik afmgb

s files,

- \dots process (with T_EX) the supplied file shorthind.ins.
 - This generates shorthnd.tex from the current .mbs files, using docstrip once more,
 - which when processed with LaTEX, gives a listing of the abbreviations with full translations.
 - That's the final bit of * magic.

Yes, T_EX has been abused by all this.

Yes, T_EX has been abused by all this. But it has been for a good cause.

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