Utroff Refer documentation

Enhancement of Heirloom troff refer tools which insert references

(Beta version : user interface may change)

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Refer readme

Presentation

Utroff refer is a modification of the heirloom refer tools which manages references for troff. The modification of this tools has two aims:

- Follow the iso-690 bibliography standart.
- Add better support of names in bibliography files (support multiple issuer, use real small
- Add some manual pages.

Build and install

To build and install, edit the file config.mk from the root directory, and run:

make install

In some circumstances, you might need utroff tools themselves to build the manual pages. In that case, build and install binaries before manual pages like this :

make installbin make installman

You can uninstall files and clean the working directory :

make uninstall make clean

For a more complete description of the build process, look at the README in the root directory.

License

Refer and the other binaries are distributed under the CDDL 1.0 license 1. Manual pages of refer and sortbib are distributed under the original BSD license 2. The manual pages of hunt, inv, mkey and referformat have been made from Some applications of inverted indexes on the UNIX system by M. E. Lesk, which was part of the Unix User Supplementary Document³ distributed under the original BSD license 4, as said on the Berkely Software Documentation 5 webpage.

Help and bugs

Don't hesitate to ask questions at help at utroff dot org. Please, send bugs and patches at help at utroff dot org.

¹ See p. 21.

² See p. 20.

^{3 &}lt; http://netbsd.org/docs/bsd/lite2/usd.html>

⁴ See p. 20.

⁵ <http://netbsd.org/docs/bsd/lite2/>

Refer manual

Name

refer - (utroff) insert iso-690 compliant references in document

Synopsis

@BINDIR@/refer [-abcdeinPS] [-fn] [-kx] [-lm,n] [-p bib] [-skeys] [-Bl.m] [file ...]

Description

Refer is an enhancement of the Heirloom refer preprocessor for nroff and troff that finds and formats references for footnotes or endnotes. It is also the base for a series of programs designed to index, search, sort, and print stand-alone bibliographies, or other data entered in the appropriate form.

This version adds to *Heirloom refer* the ability to sort following the *iso-690*(7) bibliography standart (-i option), a better capitalize option (-d), support editor names like authors names, and insertion of the universal "&" instead of the english "and" to join names.

Given an incomplete citation with sufficiently precise keywords, *refer* will search a bibliographic database for references containing these keywords anywhere in the title, author, journal, etc. The input file (or standard input) is copied to standard output, except for lines between .[and .] delimiters, which are assumed to contain keywords, and are replaced by information from the bibliographic database. The user may also search different databases, override particular fields, or add new fields. The reference data, from whatever source, are assigned to a set of *troff* strings. Macro packages such as *ms* print the finished reference text from these strings. By default references are flagged by footnote numbers.

The following options are available:

- -a n Reverse the first n author or editor names (Jones, J. A. instead of J. A. Jones). If n is omitted all author and editor names are reversed.
- **-b** Bare mode : do not put any flags in text (neither numbers nor labels).
- -c keys Capitalize (with CAPS SMALL CAPS) the whole field whose key-letters are in the first-name part of fields whose key-letters are in keys. The firstname part is the last word of the fields or the previous one if it ends with a comma (",").
- -d keys Insert strings around the lastname, firstname and junior part of fields whose key-letters are in keys, for later formatting. The firstname part is the last word of the field or the previous one if it ends with a comma (","). Strings are *(+F and *(-F around firstname, *(+L and *(-L around lastname, *(+J and *(-J around junior.)).
- Instead of leaving the references where encountered, accumulate them until a sequence of the form

```
| .[
| $LIST$
| .]
```

is encountered, and then write out all references collected so far. Collapse references to same source.

 $-\mathbf{f}$ n Set the footnote number to n instead of the default of 1 (one). With labels rather than

- numbers, this flag is a no-op.
- -i Sort following the iso-690 standart order of fields: If J is defined, the order of fields is "QATESVBJ"; Else, if B is defined, the order of fields is "QATESVB"; Else, the order of fields is "QAESVT". The *u-ref* macro need this option to work properly.
- $-\mathbf{k} x$ Instead of numbering references, use labels as specified in a reference data line beginning %x; by default x is \mathbf{L} .
- $-1\ m$, n Instead of numbering references, use labels made from the senior author's last name and the year of publication. Only the first m letters of the last name and the last n digits of the date are used. If either m or n is omitted the entire name or date respectively is used.
- -n Do not search the default file /\$REFLIB\$/papers/Ind. If there is a REFER environment variable, the specified file will be searched instead of the default file; in this case the −n flag has no effect.
- -**p** bib Take the next argument bib as a file of references to be searched. The default file is searched last.
- -s keys Sort references by fields whose key-letters are in the keys string; permute reference numbers in text accordingly. Implies -e. The key-letters in keys may be followed by a number to indicate how many such fields are used, with + taken as a very large number. The default is AD which sorts on the senior author and then date; to sort, for example, on all authors and then title, use -sA+T.
- **-B** l.m Bibliography mode. Take a file composed of records separated by blank lines, and turn them into *troff* input. Label l will be turned into the macro .m with l defaulting to $%\mathbf{X}$ and .m defaulting to $.\mathbf{AP}$ (annotation paragraph).
- -P Place punctuation marks ., :;?! after the reference signal, rather than before. (Periods and commas used to be done with strings.)
- **-S** Produce references in the Natural or Social Science format.

To use your own references, put them in the format described below. They can be searched more rapidly by running indxbib(1B) on them before using refer; failure to index results in a linear search. When refer is used with the eqn, neqn or tbl preprocessors refer should be first, to minimize the volume of data passed through pipes.

The *refer* preprocessor and associated programs expect input from a file of references composed of records separated by blank lines. A record is a set of lines (fields), each containing one kind of information. Fields start on a line beginning with a "%", followed by a key-letter, then a blank, and finally the contents of the field, and continue until the next line starting with "%". The output ordering and formatting of fields is controlled by the macros specified for *nroff/troff* (for footnotes and endnotes) or *roffbib* (for stand-alone bibliographies). For a list of the most common key-letters and their corresponding fields, see *addbib*(1B). An example of a *refer* entry is given below.

Example

%A M. E. Lesk
%T Some Applications of Inverted Indexes on the UNIX System
%B UNIX Programmer's Manual
%V 2b
%I Bell Laboratories
%C Murray Hill, NJ
%D 1978

Files

@REFDIR@/papers directory of default publication lists @REFDIR@ directory of companion programs

See also

referformat(7) 1, sortbib(1) 2, mkey(1) 3, inv(1) 4, hunt(1) 5, and Some application of Inverted Indexes in the UNIX System by M. E. Lesk.

Notes

Blank spaces at the end of lines in bibliography fields will cause the records to sort and reverse incorrectly. Sorting large numbers of references causes a core dump.

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Help and bugs

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Authors

Written by Mike Lesk, modified by Pierre-Jean Fichet.

¹ See p. 6.

² See p. 10.

³ See p. 14.

⁴ See p. 12.

⁵ See p. 16.

⁶ See p. 21.

⁷ See p. 20.

Refer input and output format

Refer file

A reference file is a set of bibliographic references usable with *refer*. It can be indexed using the softwares *inv* and *mkey* for fast searching.

The strings defined by *refer* are taken directly from the files of references, which are in the following format. The references should be separated by blank lines. Each reference is a sequence of lines beginning with % and followed by a key-letter. The remainder of that line, and successive lines until the next line beginning with %, contain the information specified by the key-letter. In general, *refer* does not interpret the information, but merely presents it to the macro package for final formatting. A user with a separate macro package, for example, can add new key-letters or use the existing ones for other purposes without bothering *refer*.

The meaning of the key-letters given below, in particular, is that assigned by the -ms macros. Not all information, obviously, is used with each citation. For example, if a document is both an internal memorandum and a journal article, the macros ignore the memorandum version and cite only the journal article. Some kinds of information are not used at all in printing the reference; if a user does not like finding references by specifying title or author keywords, and prefers to add specific keywords to the citation, a field is available which is searched but not printed (K).

The key letters currently recognized by refer and -ms, with the kind of information implied, are:

- **A** Author's name
- **B** Title of book containing item
- C City of publication
- **D** Date
- E Editor of book containing item
- G Government (NTIS) ordering number
- I Issuer (publisher)
- J Journal name
- K Keys (for searching)
- L Label
- M Memorandum label
- N Issue number
- **O** Other information
- P Page(s) of article
- R Technical report reference
- T Title
- V Volume number
- X 01
- **Y** 0:
- **Z** Information not used by refer

Refer output

The output of *refer* is a stream of string definitions, one for each of the fields of each reference, as shown below.

```
.ds [A authors' names ...
.ds [T title ...
.ds [J journal ...
...
...
.][ type-number
```

The refer program, in general, does not concern itself with the significance of the strings. The different fields are treated identically by refer , except that the \mathbf{X} , \mathbf{Y} and \mathbf{Z} fields are ignored (see the -i option of mkey) in indexing and searching. All refer does is select the appropriate citation, based on the keys. The macro package must arrange the strings so as to produce an appropriately formatted citation. In this process, it uses the convention that the 'T' field is the title, the 'J' field the journal, and so forth. The refer program does arrange the citation to simplify the macro package's job, however. The special macro .]- precedes the string definitions and the special macro .][follows. These are changed from the input .[and .] so that running the same file through refer again is harmless.

The .]— macro can be used by the macro package to initialize. The .][macro, which should be used to print the reference, is given an argument type-number to indicate the kind of reference, as follows:

- 1 Journal article
- 2 Book
- 3 Article within book
- 4 Technical report
- 5 Bell Labs technical memorandum
- 0 Other

The type is determined by the presence or absence of particular fields in the citation (a journal article must have a 'J' field, a book must have an 'I' field, and so forth). To a small extent, this violates the above rule that *refer* does not concern itself with the contents of the citation; however, the classification of the citation in *troff* macros would require a relatively expensive and obscure program. Any macro writer may, of course, preserve consistency by ignoring the argument to the .] [macro. The reference is flagged in the text with the sequence

([.number(.]

where number is the footnote number. The strings [. and .] should be used by the macro package to format the reference flag in the text. These strings can be replaced for a particular footnote. The footnote number (or other signal) is available to the reference macro .][as the string register [F. To simplify dealing with a text reference that occurs at the end of a sentence, refer treats a reference which follows a period in a special way. The period is removed, and the reference is preceded by a call for the string <. and followed by a call for the string >. For example, if a reference follows 'end.' it will appear as

•nd*(<.*([.number*(.]*(>.

where number is the footnote number. The macro package should turn either the string >. or <. into a period and delete the other one. This permits the output to have either the form 'end[31].' or 'end.31' as the macro package wishes. Note that in one case the period precedes the number and in the other it follows the number.

In some cases users wish to suspend the searching, and merely use the reference macro formatting. That is, the user doesn't want to provide a search key between .[and .] brackets, but merely the reference lines for the appropriate document. Alternatively, the user can wish to add a few fields to those in the reference as in the standard file, or override some fields. Altering or replacing fields, or supplying whole references, is easily done by inserting lines beginning with %; any such line is taken as direct input to the reference processor rather than keys to be searched. Thus

```
.[
key1 key2 key3 ...
%Q New format item
%R Override report name
.]
```

makes the indicates changes to the result of searching for the keys. All of the search keys must be given before the first % line. If no search keys are provided, an entire citation can be provided in-line in the text. For example, if the eqn paper citation were to be inserted in this way, rather than by searching for it in the data base, the input would read

```
.[
%A B. W. Kernighan
%A L. L. Cherry
%T A System for Typesetting Mathematics
%J Comm. ACM
%V 18
%N 3
%P 151-157
%D March 1975
.]
```

This would produce a citation of the same appearance as that resulting from the file search. As shown, fields are normally turned into troff strings. Sometimes users would rather have them defined as macros, so that other troff commands can be placed into the data. When this is necessary, simply double the control character % in the data. Thus the input

```
.[
%V 23
%%M
Bell Laboratories,
Murray Hill, N.J. 07974
```

is processed by refer into

```
.ds [V 23
.de [M
Bell Laboratories,
Murray Hill, N.J. 07974
```

The information after %M is defined as a macro to be invoked by \Mathbb{M} while the information after %V is turned into a string to be invoked by \Mathbb{M} . At present -ms expects all information as strings.

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See also

refer(1) 2 , sortbib(1) 3 , mkey(1) 4 , inv(1) 5 , hunt(1) 6 , and Some application of Inverted Indexes in the UNIX System by M. E. Lesk.

```
<sup>1</sup> See p. 20.

<sup>2</sup> See p. 3.

<sup>3</sup> See p. 10.

<sup>4</sup> See p. 14.

<sup>5</sup> See p. 12.

<sup>6</sup> See p. 16.
```

Help and bugs

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Authors

M. E. Lesk. Modified by Pierre-Jean Fichet.

Sortbib manual

Name

sortbib - Sort refer bibliographic database following iso-690 standart

Synopsis

sortbib [-i|-sKEYS] database ...

Description

Sortbib sorts files of records containing refer key-letters by user-specified keys. Records may be separated by blank lines, or by .[and .] delimiters, but the two styles may not be mixed together. This program reads through each database and pulls out key fields, which are sorted separately. The sorted key fields contain the file pointer, byte offset, and length of corresponding records. These records are delivered using disk seeks and reads, so sortbib may not be used in a pipeline to read standard input.

By default, *sortbib* alphabetize the first %A and %D fields, which contain the senior author and date.

The -i option is used to sort database following an algorythm which aims to respect the *iso-690* bibliography standart :

- If **J** is defined, the order of fields is : **QA+TE+SVBJ**.
- Else, if **B** is defined, the order of fields is : **QA+TE+SVB**.
- Else, the order of fields is : **QA+E+SVT**.

The -s option is used to specify new *KEYS*. For instance, -sATD will sort by author, title, and date, while -sA+D will sort by all authors, and date. Sort keys past the fourth are not meaningful. No more than 16 databases may be sorted together at one time. Records longer than 4096 characters will be truncated.

Sortbib sorts on last word on the %A and %E line, which are assumed to be the author's and editor's last name. A word in the final position, such as "jr." or "ed.", will be ignored if the name beforehand ends with a comma. Authors with two-word last names or unusual constructions can be sorted correctly by using the *nroff* convention "\0" in place of a blank. A %Q field is considered to be the same as %A, except sorting begins with the first, not the last, word. Sortbib sorts on the last word of the %D line, usually the year. If a sort-significant field is absent from a record, sortbib places that record before other records containing that field.

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Files

@BINDIR@/sortbib

See also

refer(1) 3, u-ref(7).

Help and bugs

Don't hesitate to ask questions at help at utroff dot org. Please, send bugs and patches at help at utroff dot org.

Authors

Written by Greg Shenaut & Bill Tuthill. Modified by Pierre-Jean Fichet.

³ See p. 3.

Inv manual

Name

Inv — Make an inverted index from output of mkey.

Synopsis

inv [-danpv] [-hn] [-i [u] name] outfile]

Description

The *inv* program computes the hash codes and writes the inverted files. It reads the output of *mkey* and writes the set of files described earlier in this section. It expects one argument, which is used as the base name for the three (or four) files to be written. Assuming an argument of *Index* (the default) the entry file is named *Index.ia*, the posting file *Index.ib*, the tag file *Index.ic*, and the key file (if present) *index.id*.

The inv programm recognize the following options:

- -a Append the new keys to a previous set of inverted files, making new files if there is no old set using the same base name.
- -d Write the optional key file. This is needed when you can not check for false drops by looking for the keys in the original inputs, i.e. when the key derivation procedure is complicated and the output keys are not words from the input files.
- **-h**n The hash table size is n (default 997); n should be prime. Making n bigger saves search time and spends disk space.
- -i [u] name

Take input from file name, instead of the standard input; if \mathbf{u} is present name is unlinked when the sort is started. Using this option permits the sort scratch space to overlap the disk space used for input keys.

- **-n** Make a completely new set of inverted files, ignoring previous files.
- **-p** Pipe into the sort program, rather than writing a temporary input file. This saves disk space and spends processor time.
- -v Verbose mode; print a summary of the number of keys which finished indexing.

About half the time used in inv is in the contained sort. Assuming the sort is roughly linear, however, a guess at the total timing for inv is 250 keys per second. The space used is usually of more importance: the entry file uses four bytes per possible hash (note the -h option), and the tag file around 15-20 bytes per item indexed. Roughly, the posting file contains one item for each key instance and one item for each possible hash code; the items are two bytes long if the tag file is less than 65336 bytes long, and the items are four bytes wide if the tag file is greater than 65536 bytes long. To minimize storage, the hash tables should be over-full; for most of the files indexed in this way, there is no other real choice, since the entry file must fit in memory.

Files

@BINDIR@/invExecutable.
Assuming an argument of Index (the default):
Index.ia Entry file.
Index.ib Posting file.

Index.ic Tag file. Index.id Key file.

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See also

refer(1)³, referformat(7)⁴, mkey(1)⁵, hunt(1)⁶, and Some application of Inverted Indexes in the UNIX System by M. E. LESK.

Help and bugs

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М. Е. Lesk. Modified by Pierre-Jean Fichet

¹ See p. 20.

² See p. 21.

³ See p. 3.

⁴ See p. 6.

⁵ See p. 14.

⁶ See p. 16.

Mkey manual

Name

Mkey - Build an index of keys from files

Synopsis

mkey [-sw] [-c name] [-f name] [-i chars] [-kn] [-ln] [-nm] file [file...]

Description

Mkey reads its input from the file names given as arguments, and, if there is no arguments, it reads from the standart input. It assumes that blank lines in the input delimit separate items for each of which a different line of keys should be generated. The lines of keys are written on the standard output. Keys are any alphanumeric string in the input not among the most frequent words in English and not entirely numeric (except that all-numeric strings are acceptable if they are between 1900 and 1999). In the output, keys are translated to lower case, and truncated to six characters in length; any associated punctuation is removed.

The following flags arguments are recognized by **mkey**.

- -c name Name of file of common words. Default is @LIBDIR@/eign.
- -f name Read a list of files from name and take each as an input argument.
- -i chars Ignore each line wich begin with '%' followed by any character in chars.
- -kn Use at most n keys per input item. Unless this option is used, the output of mkey is comparable in size to its input.
- -ln Ignore items shorter than n letter longs. Default is 3.
- -nm Ignore as a key any word in the first m words of the list of common English words. The default is 100.
- -s Remove the labels (*file :start,length*) from the output; just give the keys. Used when searching rather than indexing.
- -w Each whole file is a separate item; blank lines are irrelevant.

Files

@BINDIR@/mkeyExecutable.
@LIBDIR@/eignList of frequent english words.

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See also

refer(1)³, referformat(7)⁴, sortbib(1)⁵, inv(1)⁶, hunt(1)⁷, and *Some application of Inverted Indexes in the UNIX System* by M. E. Lesk.

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Authors

This manual page is made from the document *Some application of Inverted Indexes in the UNIX System* by M. E. LESK. Modified by Pierre-Jean Fichet

³ See p. 3.

⁴ See p. 6.

⁵ See p. 10.

⁶ See p. 12.

⁷ See p. 16.

Hunt manual

Name

hunt - Retrieve items from an mkey index.

SYNOPSIS

hunt [-agp] [-Cn] [-F[ynd]] [-i string] [-l n] [-o string] [-T[ynd]] [-t string] < file

Description

The *hunt* program retrieves items from an index. It combines, as mentioned above, the two parts of that process: search and delivery. The reason why it is efficient to combine delivery and search is partly to avoid starting unnecessary processes, and partly because the delivery operation must be a part of the search operation in any case. Because of the hashing, the search part takes place in two stages: first items are retrieved which have the right hash codes associated with them, and then the actual items are inspected to determine false drops, i.e. to determine if anything with the right hash codes doesn't really have the right keys. Since the original item is retrieved to check on false drops, it is efficient to present it immediately, rather than only giving the tag as output and later retrieving the item again. If there were a separate key file, this argument would not apply, but separate key files are not common.

Input to *hunt* is taken from the standard input, one query per line. Each query should be in *mkey* -s output format; all lower case, no punctuation. The *hunt* program takes one argument which specifies the base name of the index files to be searched. Only one set of index files can be searched at a time, although many text files may be indexed as a group, of course. If one of the text files has been changed since the index, that file is searched with fgrep; this may occasionally slow down the searching, and care should be taken to avoid having many out of date files.

The following option arguments are recognized by *hunt*:

- -a Give all output; ignore checking for false drops.
- -C*n* Coordination level n; retrieve items with not more than n terms of the input missing; default -C0, implying that each search term must be in the output items.
- -**F**[ynd] '-**F**y' gives the text of all the items found; '-**F**n'' suppresses them. '-**F**d' where d is an integer gives the text of the first d items. The default is -**F**y.
- **-g** Do not use *fgrep* to search files changed since the index was made; print an error comment instead.
- -i String Take String as input, instead of reading the standard input.
- -1 n The maximum length of internal lists of candidate items is n; default is 1000.
- -o string
- Put text output ('Fy') in *string*; of use only when invoked from another program.
- -p Print hash code frequencies; mostly for use in optimizing hash table sizes.
- -T[ynd] '-Ty' gives the tags of the items found; '-Tn' suppresses them. '-Td' where d is an integer gives the first d tags. The default is -Tn.
- -t string Put tag output ('-Ty') in string; of use only when invoked from another program.

The timing of *hunt* is complex. Normally the hash table is overfull, so that there will be many false drops on any single term; but a multi-term query will have few false drops on all terms. Thus if a query is underspecified (one search term) many potential items will be examined and

discarded as false drops, wasting time. If the query is overspecified (a dozen search terms) many keys will be examined only to verify that the single item under consideration has that key posted.

As would be expected, the optimal search is achieved when the query just specifies the answer; however, overspecification is quite cheap. In general, overspecification can be recommended; it protects the user against additions to the data base which turn previously uniquely-answered queries into ambiguous queries.

Files

@BINDIR@/huntExecutable.

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See also

refer(1)³, referformat(7)⁴, sortbib(1)⁵, hunt(1)⁶, mkey(1)⁷, inv(1)⁸, and *Some application of Inverted Indexes in the UNIX System* by M. E. Lesk.

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Authors

М. Е. Lesk, modified by Pierre-Jean Fichet.

¹ See p. 20.

² See p. 21.

³ See p. 3.

⁴ See p. 6.

⁵ See p. 10.

⁶ See p. 16.

⁷ See p. 14.

⁸ See p. 12.

Changes of refer

2014/03/12 14 :25 :26 VERSION-0.16

- version.c : troff files : fix link to license.

2013/10/30 20 :18 :17 VERSION-0.15

- troff files : fix link to license.

2013/10/30 16:27:50 VERSION-0.14

- makefile : FIX : scripts are in BIN variables. Files to strip are in STR variable.

2013/10/30 14 :58 :23 VERSION-0.13

- makefile : FIX : Use new build system.

2013/04/07 17:37:35 VERSION-0.12

- makefile : s/ROOT/DESTDIR/g (bug report by Seb).

2013/03/31 07 :51 :24 VERSION-0.11

- makefile, refer : various typo bug fix.
- refer : close properly firstname small capital.

2013/03/22 11 :27 :55 VERSION-0.10

- Add makefile.

2013/03/22 11 :26 :33 VERSION-0.9

- refer: strings to define small capitals don't need to be escaped with "\".

2013/03/22 11:25:19 VERSION-0.8

- refer : do not add "," after lastname if there's no firstname when reversing.

2013/03/22 11 :24 :16 VERSION-0.7

- refer: use string "&" to join names instead of "and" and "AND".

2013/03/22 11 :23 :06 VERSION-0.6

 refer: add support for editor names in the same way as author names (multiple editor names, small capitals...).

2013/03/22 11 :21 :46 VERSION-0.5

refer : don't truncate utf8 chars when copying strings in comments of file.

2013/03/22 11 :19 :03 VERSION-0.4

 refer: add -d option to use strings to define small capitals instead of hardcoded fake small capitals. Strings are: .

2013/03/22 11:17:34 VERSION-0.3

- refer, sortbib : add -i option to sort following iso-690 standart.

2013/03/22 11 :16 :26 VERSION-0.2

- ADD : portions copyright and new RCS Id.

2013/03/22 11 :15 :15 VERSION-0.1

- Initial revision, from Heirloom Refer.

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