

## SYNOPSIS

**bib2gls** [*option*]+ *auxfile*

## DESCRIPTION

**bib2gls** is designed to work with the **glossaries-extra** LaTeX package. (The **record** package option is required.) The application performs two functions in one: (1) selects entries from .bib files according to information found in the *auxfile* (similar to **bibtex**); (2) hierarchically sorts entries and collates location lists (similar to **makeindex** and **xindy**). The .aux extension may be omitted from *auxfile*.

The *auxfile* (and corresponding .log file) should either be in the current directory or in the directory specified by **--dir**. Bib files can either be relative to the directory the *auxfile* is in or in a location that can be found by `kpsewhich`.

## OPTIONS

### **--break-space**

Interpret ~ (tilde) character and `\nobreakspace` as a normal space.

### **--cite-as-record**

Treat `\citation` as an ignored record.

### **--collapse-same-location-range**

Collapse an explicit range that has a duplicate start and end location into a normal record (default).

### **--custom-packages** *list*

Instruct the TeX parser library to attempt to parse the packages listed in *list*. This is intended for simple custom packages that don't contain complex code.

### **--date-in-header** (or **-D**)

The header comment at the start of the *.glstex* file will include the file modification date.

### **--debug** [*n*]

Switch on the debug mode at the given setting *n*, which should be a non-negative integer. If *n* is **0** then the debug mode is switched off. If omitted, *n* is set to 1, which corresponds to **--debug-mode io**. Any positive number will enable all of **bib2gls**'s debugging messages. The amount of TeX Parser Library debugging messages depends on bitwise operation of *n*.

### **--debug-mode** *setting*

May be used instead of **--debug** where the level number is difficult to remember. The *setting* may be a comma-separated list of any of the keywords:

**all** Highest level (likely to result in a large transcript file). Equivalent to switching on all settings.

#### **catcode**

TeX Parser category code changes.

**cs** TeX Parser command definitions.

#### **decl**

TeX Parser declarations.

#### **expansion**

TeX Parser expansions (may result in a large transcript file).

**expansion-list**

TeX Parser stack expansions (may result in a large transcript file).

**expansion-once**

TeX Parser one-level expansions.

**expansion-once-list**

TeX Parser one-level list expansions.

**io** TeX Parser I/O operations (open, close and fetch token).

**popped**

TeX Parser stack popping.

**process**

TeX Parser macro process (may result in a large transcript file).

**process-generic-cs**

TeX Parser generic command process.

**process-stack**

TeX Parser stack process (may result in a large transcript file).

**process-stack-list**

TeX Parser detailed stack process (may result in a large transcript file).

**read**

TeX Parser codepoint read from file (likely to result in a large transcript file).

**sty-data**

TeX Parser data (typically relates to internal objects that don't have an analogous TeX macro). This includes data gathered from the aux file.

For example: `bib2gls --debug-mode io,catcode,sty-data mydoc`

**--default-encoding** *name*

Set the default character encoding for input and output files. If omitted, the JVM default encoding is assumed.

**--dir** *directory* (or **-d** <directory>)

Files are relative to *directory*. (This doesn't change the current working directory.)

**--expand-fields**

Don't write `\glsnoexpandfields` to the *.gls.tex* file.

**--force-cross-resource-refs** or **-x**

Force cross-resource referencing mode on.

**--group** or **-g**

Add **group** field to entries.

**--help** or **-h**

Display help message and exit.

**--ignore-packages** *list* (or **-k** *list*)

Don't parse the log file for the packages listed in *list*. Note that **--packages** overrides this option, so if the same package is listed in both **--ignore-packages** and **--packages** then the interpreter will check if it's supported. This option has a cumulative action. Only known packages may be included in *list*.

**--interpret**

Use the TeX Parser Library to interpret known (La)TeX commands (default).

**--list-known-packages**

Lists all the packages that have are known to the TeX parser library and then exits (with exit code 0). Any of the listed packages may be used in **--packages** or **--ignore-packages**.

**--locale lang** (or **-l lang**)

Use language resource file for *lang* (which should be an IETF locale tag).

**--log-encoding name**

Set the character encoding for the *log* files (which may not be the same as the encoding for the document LaTeX files).

**--log-file file** (or **-t <file>**)

Set the transcript file.

**--merge-nameref-on rule**

Rule for merging locations created with the **record=nameref** package option (requires *glossaries-extra.sty* version 1.37+). The *rule* may be one of: **hcounter**, **href**, **title** or **location**.

**--merge-wrglossary-records**

Merge an entry's **wrglossary** records for the same page locations. (For use with the **indexcounter** package option.)

**--mfirstuc-math-protection**

Switch on the auto-insertion of an empty group for math-shift ( $\$$ ).

If *mfirstuc* v2.08+, *glossaries* v4.50+ and *glossaries-extra* v1.49+ are detected, the default will be **--no-mfirstuc-math-protection** as there should no longer be any need for this protection.

**--mfirstuc-protection fields|all** (or **-u fields|all**)

Insert an empty group if fields start with certain problematic commands to protect against case-changing commands like  $\Gls$ .

The default is to do this for all fields. To do this for only a subset of fields, set *fields* to a comma-separated list of fields (e.g. **name,short,long**). The keyword **all** indicates all fields.

If *mfirstuc* v2.08+, *glossaries* v4.50+ and *glossaries-extra* v1.49+ are detected, the default will be **--no-mfirstuc-protection** as there should no longer be any need for this protection.

**--nested-link-check list|none**

Check each field listed in *list* for potentially problematic nested link text. (Default list: name, text, plural, first, firstplural, short, shortplural, long, longplural, symbol).

If **none**, disable check.

**--no-break-space**

Interpret  $\sim$  (tilde) and  $\nobreakspace$  as a non-breaking space (default).

**--no-cite-as-record**

Don't check for instances of  $\citation$  in the *.aux* file (default).

- no-collapse-same-location-range**  
Don't collapse an explicit range that has a duplicate start and end location into a normal record.
- no-date-in-header**  
The header comment at the start of the *.gls* file will not include the file modification date (default).
- no-debug** (or **--nodebug**)  
Switch off debug mode. (Equivalent to **--debug 0**)
- no-expand-fields**  
Write `\glsnoexpandfields` to the *.gls* file (default).
- no-force-cross-resource-refs**  
Don't force cross-resource referencing mode on (default).
- no-group**  
Don't add **group** field to entries (default).
- no-interpret**  
Don't try interpreting (La)TeX commands. The TeX Parser Library will still be used to parse the *aux* and *bib* files.
- no-merge-wrglossary-records**  
Don't merge an entry's **wrglossary** records.
- no-mfirstuc-math-protection**  
Switch off the auto-insertion of an empty group for math-shift ( $§$ ).
- no-mfirstuc-protection**  
Switch off the auto-insertion of an empty group for all fields.
- no-nested-link-check**  
Don't check for potentially problematic nested link text. (Equivalent to **--nested-link-check none**)
- no-obey-aux-catcode**  
Ignore category code changing commands encountered in the *aux* file.
- no-provide-glossaries**  
Don't write `\provideignoredglossary*` to the *.gls* file to provide unknown glossaries except in documented situations (**master**, **secondary** and **trigger-type** resource options). This setting is the default.
- no-record-count**  
Don't add record count field to entries (default). This option automatically implements **--no-record-count-unit**.
- no-record-count-unit**  
Don't add unit record count field to entries (default).
- no-replace-quotes**  
Don't replace quote characters (default).
- no-retain-formats**  
Normal location merging rules apply (default).

**--no-support-unicode-script**

Text superscript (`\textsuperscript`) or subscripts (`\textsubscript`) won't be converted to Unicode superscript/subscript characters. For example, `\textsuperscript{2}` will be converted to `<sup>2</sup>` and the markup will be stripped leaving just the character 2.

**--no-trim-fields**

Don't trim leading and trailing spaces from fields (default). This option cancels **--trim-only-fields** and **--trim-fields**.

**--no-verbose** (or **--noverbose**)

Switch off verbose mode. (Some messages will still be written to STDOUT.)

**--no-warn-non-bib-fields**

Don't warn if internal non-bib fields are found in the *.bib* file. The use of these internal fields can cause unexpected results, so only use this option if you have taken appropriate precautions.

**--no-warn-unknown-entry-types**

Don't warn if any unknown entry types are found in the *.bib* file.

**--obey-aux-catcode**

Obey known category code changing commands encountered in the aux file.

**--packages list** (or **-p list**)

Instruct the TeX parser library to pretend the packages listed in *list* have been used by the document. Note that there's only a limited number of packages supported by the TeX parser library. This option has a cumulative action so **--packages wasysym,pifont** is the same as **--packages wasysym --packages pifont**.

You can find out the list of supported packages with **--list-known-packages**.

**--provide-glossaries**

Write `\provideignoredglossary*` to the *.glstex* file to provide unknown glossaries.

**--quiet** (or **-q**)

Only display error messages. All other messages are just written to the transcript file.

**--record-count** or **-c**

Add record count fields to entries.

**--record-count-rule rule** or **-r rule**

Sets the rule used by **--record-count** and **--record-count-unit**. This option automatically implements **--record-count**.

The *rule* may be: `all` or `a` (count all records), `non-ignored` or `n` (count all non-ignored records), `f/regex/` (only count records where the format matches the regular expression *regex*), `c/regex/` (only count records where the counter name matches the regular expression *regex*), or `f/regex1/c/regex2/op` (only count records where the format matches the regular expression *regex1* and/or the counter name matches the regular expression *regex2*). The *op* part is optional. If present it may be one of: `and` (format AND counter must match), `or` (format OR counter must match). If *op* is omitted, AND is assumed.

**--record-count-unit** or **-n**

Add unit record count fields to entries. This option automatically implements **--record-count**.

**--replace-quotes**

Replace single and double quote characters ( ' and " ) with `\bibglsaposchar` and `\bibglsdoublequotechar` in field values and group information written to the `.glstex` file.

**--retain-formats** *list*

Indicates which location formats should always be retained even if it causes a partial duplicate. Only exact duplicates will be merged.

**--shortcuts** *option*

Check for the shortcut commands when searching for dependencies. Permitted values of *option*: **acronyms** (or **acro**), **ac**, **abbreviations** (or **abbr**), **all** (or **true**), **none** (or **false**). This overrides the setting given in *auxfile*.

**--map-format** *key:value[,key:value]\** (or **-m** *key:value[,key:value]\**)

Set location format mappings.

**--silent**

Only display error messages. All other messages are just written to the transcript file. (Synonym of **--quiet**.)

**--support-unicode-script**

Text superscript (`\textsuperscript`) or subscripts (`\textsubscript`) will use Unicode superscript/subscript characters if available. For example, `\textsuperscript{2}` will be converted to U+00B2 (superscript two).

**--tex-encoding** *name*

Set the character encoding for the *glstex* files. This overrides the setting given in *auxfile*.

**--trim-except-fields** *list*

Trim leading and trailing spaces from all fields except those listed. This option is cumulative but is cancelled by **--trim-fields** and **--no-trim-fields**. This option may not be used with **--trim-only-fields**.

**--trim-fields**

Trim leading and trailing spaces from all fields. This option cancels **--trim-only-fields** and **--no-trim-fields**.

**--trim-only-fields** *list*

Trim leading and trailing spaces from only the listed fields. This option is cumulative but is cancelled by **--trim-fields** and **--no-trim-fields**. This option may not be used with **--trim-except-fields**.

**--verbose**

Switch on verbose mode.

**--version** or **-v**

Display version information and exit.

**--warn-non-bib-fields**

Warn if internal non-bib fields are found in the *.bib* file.

**--warn-unknown-entry-types**

Warn if any unknown entry types are found in the *.bib* file.

**REQUIRES**

Java 8 or later and a TeX distribution.

**LICENSE**

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**RECOMMENDED READING**

The bib2gls manual:

```
texdoc bib2gls
```

The glossaries-extra manual:

```
texdoc glossaries-extra
```

The glossaries manual:

```
texdoc glossaries
```

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