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 *.glstex* 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 ˜ (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 *.glstex* 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 *.glstex* 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 *.glstex* 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, ^{2} will be converted to ² 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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