

Parallel typesetting for critical editions: the `reledpar` package*

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Abstract

The `reledmac` package has been used for some time for typesetting critical editions. The `reledpar` package is an extension to `reledmac` which enables texts and their critical apparatus to be typeset in parallel, either in two columns or on pairs of facing pages.

`reledpar` provides many tools and options. Normally, they are all documented in this file. Also provided is a help folder, “examples”. The folder contains additional examples (although not for all cases). Examples starting by “3-” are for basic uses, those starting by “4-” are for advanced uses.

To report bugs, please go to `ledmac`’s GitHub page and click “New Issue”: <https://github.com/maieul/ledmac/issues/>. You must open an account with github.com to access my page (maieul/ledmac). GitHub accounts are free for open-source users. You can report bug in English or in French (better).

You can subscribe to the `reledmac` email list in:
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1 Introduction

1.1 Aim of this package

Some critical editions contain texts in more than one form, such as a set of verses in one language and their translations in another. In such cases there is a desire to be able to typeset the two texts, together with any critical apparatus, in parallel. The `reledpar` package is an extension to `reledmac` that enables two texts and their apparatus to be set in parallel, either in two columns or on pairs of facing pages.

The package has to try and coerce \TeX into paths it was not designed for. Use of the package, therefore, may produce some surprising results. In this case, please reports them to the author via github's issues: <https://github.com/maieul/ledmac/issues/>.

This manual contains a general description of how to use `reledpar` starting in section 3; the complete source code for the package, with extensive documentation (in sections I through XXIII); and an Index to the source code. As `reledpar` is an adjunct to `reledmac` we assume that you have read the `reledmac` manual. Also `reledpar` requires `reledmac` to be used, in the version distributed with version.

You do not need to read the source code for this package in order to use it but doing so may help to answer any questions you might have. The documentation's sections are numbered in roman numeral.

On a first reading, We suggest that you should skip anything after the general documentation in first sections until I, unless you are particularly interested in the innards of `reledpar`.

1.2 Historical overview

Many of the code of this package is based on the `eledpar` package, which was based on the `ledpar`, created as an extension of the `ledmac` package.

Names of the package related to parallel typesetting have moved in parallel of names of the package related to critical edition.

Please read `reledmac`'s handbook in order to understand this evolution.

2 Options

The package can be loaded with a number of global options which are listed here. Those options are fully described in the paragraphs devoted to their feature.

2.1 Synchronization's options

Please read the paragraph on synchronization's option on 6.2.2 p. 12 to understand better those options.

shiftedpstarts prevents white space between paragraphs on facing pages, the white space necessary to sync pages is collected at the bottom of the page instead.

advancedshiftedpstarts does the same as **shiftedpstarts**, but the pstart shift are not counted to determine when cutting the page. That could help to avoid page with blank lines at the bottom.

nomaxlines allows facing pages to have different numbers of lines.

nosyncpstarts disables syncing on facing pages. In that case the pages are filled as two streams normal.

2.2 Other options

parledgroup allows the use of `ledgroup` environment with `reledpar`.¹

widthliketwocolumns set the width of the text printed in a single column to be the same as the width of the text printed in two parallel columns with `reledpar`. This is useful when alternating between normal and parallel typesetting.²

continuousnumberingwithcolumns allow you to alternate between normal typesetting and parallel column typesetting without resetting the line number (see 4.2.6 p. 10).

sidenotesmarginpage makes the sidenotes be placed on the margin of the page and not on the margin of the columns.

sameparallelpagenumber sets page numbers on facing pages to the same value.

prevpgnotnumbered enables that the page before facing pages (the one automatically inserted to start parallel pages on a left page) is not counted. This applies only if the page is empty.

movecolumnsonrightpage make the left column on the right page become the right column, and the left column become the right column. It allows to have a text running on the inner column, and an other one on the outer column.

3 General

A file may mix *numbered* and *unnumbered* text. Numbered text is printed with marginal line numbers and can include footnotes and endnotes that are referenced to those line numbers: this is how you will want to print the text that you are editing. Unnumbered text is not printed with line numbers, and you can't use `reledmac`'s note commands with it: this is appropriate for introductions and other material added by the editor around the edited text.

The `reledpar` package lets you typeset two *numbered* texts in parallel³. This can be done either as setting the 'Leftside' and 'Rightside' texts in two columns or on facing pages. In the paired pages case footnotes are placed at the bottom of the page on which they are called out — that is, footnotes belonging to the left are set at the foot of a left (even numbered) page, and those for right texts are at the bottom of the relevant right (odd numbered) page. However, in the columnar case, all footnotes are set at the bottom left of the page on which they are called out — they are not set below the relevant column.

`reledmac` essentially puts each chunk of numbered text (the text within a `\pstart ... \pend`) into a box and then following the `\pend` extracts the text line by line from the box to number and print it. More precisely, the text is first put into the box as though it was being typeset as normal onto a page and any notes are stored without being typeset. Then each typeset line is extracted from the box and any notes for that

¹This option can either be used on `reledmac` or `reledpar`.

²This option can either be used on `reledmac` or `reledpar`.

³You can use, anyway, `\numberlinefalse` to disable printing of line numbers.

line are recalled. The line, with any notes, is then output for printing, possibly with a line number attached. Effectively, all the text is typeset and then afterwards all the notes are typeset.

`reledpar` similarly puts the left and right chunks into boxes but can't immediately output the text after a `\pend` — it has to wait until after both the left and right texts have been collected before it can start processing. This means that several boxes are required and possibly \TeX has to store a lot of text in its memory; both the number of potential boxes and memory are limited. If \TeX 's memory is overfilled the recourse is to reduce the amount of text stored before printing.

`\maxchunks`

It is possible to have multiple chunks in the left and right texts before printing them. The macro `\maxchunks{<num>}` specifies the maximum number of chunks within the left or right texts. This is initially set as:

```
\maxchunks{5120}
```

meaning that there can be up to 5120 chunks in the left text and up to 5120 chunks in the right text, requiring a total of 10240 boxes. If you need more chunks then you can increase `\maxchunks`. The `\maxchunks` must be called in the preamble.

If you `\maxchunks` is too little you can get a `reledpar` error message along the lines: “Too many `\pstart` without printing. Some text will be lost.” then you will have to either increase `\maxchunks` or use the parallel printing commands (`\Columns` or `\Pages`) more frequently.

When typesetting verse using `\stanza`, each line is treated as a chunk, so be warned that if you are setting parallel verses you might have to increase `\maxchunks` much more than it appears at first sight.

In general, `reledmac` is a \TeX resource hog, and `reledpar` only makes things worse in this respect.

4 Parallel columns

4.1 Basic use

`pairs` Numbered text that is to be set in columns must be within a `pairs` environment. Within the environment the text for the lefthand and righthand columns is placed within the `Leftside` and `Rightside` environments, respectively; these are described in more detail below in section 7.

`\Columns`

The command `\Columns` typesets the texts in the previous pair of `Leftside` and `Rightside` environments. The general scheme for parallel columns looks like this:

```
\begin{pairs}
\begin{Leftside} reledmac numbered text commands \end{Leftside}
\begin{Rightside} reledmac numbered text commands \end{Rightside}
\end{pairs}
\Columns
\begin{pairs}
\begin{Leftside} reledmac numbered text commands \end{Leftside}
...
\end{pairs}
\Columns
```


`\AtBeginPairs` Keep in mind that the `\Columns` **must be** outside of the `pairs` environment. You can use the macro `\AtBeginPairs` to insert a code at the beginning of each `pairs` environments. That could be useful to add the `\sloppy` macro to prevent overfull hboxes in two columns.

```
\AtBeginPairs{\sloppy}
```

There is no required pagebreak before or after the columns.

4.2 Setting

4.2.1 Column's width

`\Lcolwidth` The lengths `\Lcolwidth` and `\Rcolwidth` are the widths of the left and right columns, respectively. By default, these are:
`\setlength{\Lcolwidth}{0.45\textwidth}`
`\setlength{\Rcolwidth}{0.45\textwidth}`
 They may be adjusted if one text tends to be 'bulkier' than the other.

4.2.2 Column's separator

`\columnrulewidth` The macro `\columnseparator` is called between each left/right pair of lines. By default it inserts a vertical rule of width `\columnrulewidth`. As this is initially defined to be 0pt the rule is invisible. For a visible rule between the columns you could try:
`\setlength{\columnrulewidth}{0.4pt}`
 You can also modify `\columnseparator` if you want more control.

4.2.3 Column's positions

`\columnspan` By default, columns are positioned to the right of the page. However, you can use `\columnspanposition{L}` to align them to the left, or `\columnspanposition{C}` to center them.

When you use `\stanza`, the visible rule may shift when a verse has a hanging indent. To prevent shifting, use `\setstanzaindent` outside the `Leftside` or `Rightside` environment.

`\beforecolumnseparator` By default, the spaces around column separator are the same as the space:

- On the left of columns, if columns are aligned right.
- On the right of columns, if columns are aligned left.
- On both the left and right columns, if columns are centered.

You can redefine `\beforecolumnseparator` and `\aftercolumnseparator` length to define spaces before or after the column separator, instead of letting `reledpar` calculate them automatically.


```
\setlength{\beforecolumnseparator}{length}
\setlength{\aftercolumnseparator}{length}
```

If you want to revert to the previous behavior, just set with a negative value.

4.2.4 Mixing two columns and one column texts

`\widthliketwocolumns`

If you want to mix two-column with single-column text, you can align horizontally single-column text to two-column text with `\widthliketwocolumnstrue`. To reset this feature, use `\widthliketwocolumnsfalse`. You can also use `\widthliketwocolumns` as a global option when loading `reledmac` or `reledpar`.

`\Xnoteswidthliketwocolumns`
`\notesXwidthliketwocolumns`

In most cases, you should use `\widthliketwocolumns` in combination with `\Xnoteswidthliketwocolumns` and `\notesXwidthliketwocolumns` to align the critical/familiar footnotes with the two columns. See `reledmac`'s handbook for more details.

4.2.5 Schemas of column typesetting

Domenico Cufalo wrote a schema of the parallel column typesetting parameters, with explanations. You can read the file `doc-more/page-typesetting-columns.pdf`.

4.2.6 Continuous numbering between single and double column texts

If you want to have continuous line numbers between multiple columns and single columns, use the `continuousnumberingwithcolumns` option when loading `reledmac` or `reledpar`. You will need to use `\pausenumbering... \resumenumbering` in addition to `\beginnumbering... \endnumbering` (see 5.2.7 p. 21).

The best way to understand the behaviour of `\pausenumbering` and `\resumenumbering` is to think of the left-column text as a continuation of single-column text (or, vice versa, to think of single-column text as left-column text), and of the right-column as independent text, which needs to be synchronised with the left one manually. The numbering commands in a right column are interconnected with each other, and not with the respective left-column commands.

This means that you must switch between single-column and left-column text using `\beginnumbering... \pausenumbering... \resumenumbering... \pausenumbering... \resumenumbering`.

On the other side, the first right column must always begin with `\beginnumbering`, no matter if the corresponding left-column started with `\resumenumbering` or not; this is because numbering in the right column has not been started yet. Then, for consecutive chunks of right-column text you should use `\pausenumbering... \resumenumbering`.

You must use `\endnumbering` in a right column in the following cases:

- there is also a `\endnumbering` in the left column, because the line numbering ends with a two columns mode (e.g. at the end of a document);
- there will be a `\endnumbering` in a text after the columns, in a single column mode, because the line numbering finishes with single column mode text.

Without this, you will get wrong numbering when a right column reappears next time.

The file `examples/4-reledpar_column_mix_with_not_column-continuous-numbering.tex` covers all these cases.

4.3 Note about `\AtEveryPstart*` and `\AtEveryPend*`

The content of `\AtEveryPstart` / `\AtEveryPend` (without star) is added before every `\pstart` / after every `\pend`, distinguishing between the left and the right side.

The content of `\AtEveryPstart*` / `\AtEveryPend*` (with star) is added before every `\pstart` / after every `\pend`, but there is no distinction between the left and right sides: the content is inserted “for the two columns as a whole”.

However, as this content is also added when we typeset pages in parallel, `reledmac` must add it once for left `\pstart` and once for right `\pstart`. So if you use it to add vertical spacing, it will be problematic in parallel columns, as you will have the vertical spacing two times (vertical spacing will be twice as large as expected). A solution is to add a test inside to distinguish between parallel typesetting in columns or on pages.

```
\AtEveryPstart*{%
\ifl@dprintingcolumns
  \vspace{0.125\baselineskip}
\else
  \vspace{0.25\baselineskip}
\fi
}
```

5 Keeping translation in the outside/inside column

By default, `reledpar` works with left and right columns. However, it is possible to work with inner and outer column. In this case, use the `movecolumnspostiononrightpage` at loading time of the package.

The `Leftside` environment will correspond to the inner column, and the `Rightside` environment will correspond to the outer column.

6 Facing pages

6.1 Basic usage

pages Numbered text that is to be set on facing pages must be within a `pages` environment. Within the environment the text for the lefthand and righthand pages is placed within the `Leftside` and `Rightside` environments, respectively.

\Pages The command `\Pages` typesets the texts in the previous pair of `Leftside` and `Rightside` environments. The general scheme for parallel pages looks like this:

```
\begin{pages}
\begin{Leftside} reledmac numbered text commands \end{Leftside}
\begin{Rightside} reledmac numbered text commands \end{Rightside}
```



```

\begin{Leftside} reledmac numbered text commands \end{Leftside}
...
\end{pages}
\Pages

```

The `Leftside` text is set on lefthand (even numbered) pages and the `Rightside` text is set on righthand (odd numbered) pages. Each `\Pages` command starts a new even numbered page. After parallel typesetting is finished, a new page is started. Note that the `\Pages` **must be** outside of the `pages` environment.

6.2 Setting

6.2.1 Text width

`\Lcolwidth` Within the `pages` environment the lengths `\Lcolwidth` and `\Rcolwidth` are the widths of the left and right pages, respectively. By default, these are set to the normal `textwidth` for the document, but can be changed within the environment if necessary.

`\Rcolwidth`

6.2.2 Way of synchronizing⁴

Synchronization of left and right texts in parallel processing requires some ‘numbered’ auxiliary files to be written (namely `.1`, `.1R`, `.2`, `.2R`, and so forth), the content of which may change as long as synchronization is not complete. This usually requires \TeX to be run several times. Therefore, it is advised to use in conjunction utilities such as `latexmk` to ensure that synchronization is complete.

Numbered paragraphs which are contained between the `\pstart` and `\pend` macros are thereafter called ‘chunks’.

In short, the default setting is designed in such a way that corresponding chunks of text are always kept in synchronization, even at the cost of page padding, as it may result in leaving blank lines between chunks of text. Conversely, using in conjunction `advancedshiftedpstarts` and `nomaxlines` settings ensures that pages are filled with text to full advantage—at the cost of the chunks not being kept in synchronization—and every chunk starts on the facing page of its corresponding chunk.

To understand better how each of the synchronization settings of `reledpar` works, one must first understand how the default setting of `reledpar` synchronizes the left and right chunks.

The aim of the default setting is twofold:

- To ensure that left pages contain what is to be on left side and that right pages contain what is to be on right side.
- To ensure that every chunk starts on the page that is facing its corresponding chunk.

As regards the latter, `reledpar` checks that both of the following rules are respected:

⁴There is a French version of this article on <http://geekographie.maieul.net/185>.

- The numbers of lines of every pair of chunks must be identical. To keep this rule, `reledpar` may insert some blank lines at the bottom of the chunk that is shorter so that it may eventually have the same number of lines as the one that is longer.
- The main content of two facing pages, apart from critical and familiar footnotes, must have the same numbers of lines, including those that may be blank. Consequently, if one left page contains more notes than the corresponding right page, the bottom of the right page must be left blank.

Each of these rules can be modified by a number of optional synchronization settings in `reledpar`:

1. Regarding the number of lines a pair of chunks may have:
 - (a) 'shiftedpstarts' setting merely moves any added blank lines from the bottom of the chunks to the bottom of the page. It does not allow to have more lines on a given page as it just removes the blank lines between the chunks and does nothing more. To understand better how this work, you may compare the total amounts of lines of text on a given page whether you have activated this setting or not: you will see that both amounts are the same.
 - (b) 'advancedshiftedpstarts' prevents any blank lines from being inserted at the bottom of the chunks, also taking them away from the total amount of lines the page may have. This allows to get more lines on the pages. However, please note that:
 - Blank lines are taken into account as `reledpar` moves from one to the following chunk of text, so that every pair of chunks may always start on the same facing pages.
 - Consequently, blank lines continue to be taken into account in the calculation of the amount of lines a given pair of pages may have. This is why when a longer chunk runs from one page to another the shorter corresponding one also runs across pages, even if this may result in some blank vertical space being left on the first page.
2. As regards the number of lines per page, including blank ones, the `nomaxlines` setting disregards the rule that forces two facing pages to have the same numbers of lines. So it allows to have more text on the pages. Then, by a complex mechanism it is ensured that two corresponding chunks may always start on the same facing pages, provided that `shiftedpstarts` or `advancedshiftedpstarts` settings shall not be activated.

Lastly, one may disregard all of the synchronization rules and content himself with parallel texts typesetting. To achieve this, please use the `nosyncpstarts` setting.

Please note that every change of synchronization setting resets the content of the 'numbered' auxiliary files to make sure that `reledpar` does not try to make the synchronization with wrong calculations.

6.2.3 Page number

By default, `\Pages` use the standard \TeX page number scheme. This means that pages are numbered continuously following printed-book conventions: from left-hand to right-hand side, left-hand pages having even numbers, right-hand pages having odd numbers.

However, you can use the package option `sameparallelpagnumber` to have the same page number for both left and right side. In this case, this setting will apply only for pages typeset by `\Pages`, not for “normal” pages.

Please also read advising in 12 p. 24.

6.2.4 Page breaking

`\setgoalfraction` When doing parallel pages `reledpar` has to guess where \TeX is going to put pagebreaks and hopefully get there first in order to put the pair of texts on their proper pages. When it thinks that the fraction `\@goalfraction` of a page has been filled, it finishes that page and starts on the other side’s text. The standard value is 0.9.

If you think you can get more on a page, increase this. On the other hand, if some left text overflows onto an odd numbered page or some right text onto an even page, try reducing it. You can change it using `\setgoalfraction{<newvalue>}`.

6.2.5 Right page before `\Pages`

When `\Pages` are called, it starts at a new left page, in order to have parallel pages. Consequently, if it is called on a left page, it clears the current page and then lets a right void page.

`reledpar` provides two options to customize this (eventual) right page.

`prevpgstyle=<style>` in order to set the style of this page. A common value of `<style>` is empty. Use `prevpgstyle=empty` will suppress header and footer in this page. Please also read advising in 12 p. 24.

`prevpgnotnumbered` will make this page won’t be counted in the page counter.

6.2.6 Notes about `\mainmatter`

If you use `\frontmatter`, do not use `\mainmatter` directly before `\Pages` because it could create spurious empty pages.

Use instead `\pages` with the optional argument `[mainmatter]`. In this case, the content of `\Pages` will start on a left side, without any spurious empty page, and the left pages will be odd (and not event like in normal way), the first one being 1.

6.3 Critical and familiar footnotes

Of course, in “Facing pages”, the `reledmac`’s both critical and familiar footnotes can be used. However, some specific points must be taken into consideration.

6.3.1 Notes height setting

Since `eledpar` v1.13.0, long notes in facing pages can flow from left to right pages, and *vice-versa*.

However, the `reledmac` default setting for the maximum allotted size to notes is greater than `\textheight`. That makes impossible for long notes to flow across pages.⁵ We have not changed this default setting, because we do not want to break compatibility with older version of `reledmac` and we want to be as close as possible to default \LaTeX 's feature.

So, you MUST change the default setting via `\Xmaxhnotes` (for critical notes) and `\maxhnotesX` (for familiar notes). Both commands are explained in `reledmac` handbook (7.12.6 p. 55). As an advisable setting:

```
\AtBeginDocument{%
  \Xmaxhnotes{0.6\textheight}
  \maxhnotesX{0.6\textheight}
}
```

6.3.2 About the numbering of familiar footnotes

If you use the same series of familiar footnotes on both sides, the numbers won't be correct in the first run. There will be a continuous numbering for left notes, and a continuous numbering for right notes. However, after the second run, the numbering will be continuous, alternating between the left and right side. For example if you have two left pages and two right pages, with one note by page, you will obtain the following numbering at the first run: 1 (left page), 3 (right page), 2 (left page), 4 (right page). But at the next run, you will obtain: 1 (left page), 2 (right page), 3 (left page), 4 (right page).

If you use parallel columns, during the second of run of typesetting the footnote numbering will not run down the columns. Instead, it will read both column lines completely across the page, and number footnotes from left to right.

6.3.3 Using perpage package

It follows from what has been said in the preceding paragraph that if you use the `\MakePerPage` command of the `perpage` package for footnotes called in parallel typesetting, you must append to the counter the suffix `@typeset`.

So do not set:

```
\MakePerPage{footnote}
\MakePerPage{footnoteA}
\MakePerPage{footnoteB}
```

But set:

```
\MakePerPage{footnote@typeset}
```

⁵The same applies to \LaTeX normal notes. Read <http://tex.stackexchange.com/a/228283/7712> for technical informations.


```
\MakePerPage{footnoteA@typeset}
\MakePerPage{footnoteB@typeset}
```

6.3.4 Notes for one side only

`\Xonlyside` You may want to typeset notes on one side only (either left or right). Use `\Xonlyside[⟨s⟩]{⟨p⟩}` to set critical notes, and `\onlysideX[⟨s⟩]{⟨p⟩}` to set familiar notes. `⟨p⟩` must be set to L for notes to be confined only on the left side and to R for notes to be confined only on the right side.

Notice that these options just tell you \TeX to not continue long notes on the other side. It is not designed to allow you to call footnotes on one side but print them on the other side.

6.3.5 Familiar notes called on the right side, but to be printed on the left side

`\footnoteXnomk` As often happens, the left side has less room for text. We may want to call familiar notes in the right side while using at the same time the available space in the left side to print them.

`\footnoteXmk`

To achieve this, we call `\footnoteXnomk{⟨notecontent⟩}` in the left side. X is to be replaced by the series letter. We do this call in the left side after the word which matches up to the one in the right side after which we want to insert the actual footnote mark.

In the right side, we call `\footnoteXmk` at the place we want to have the footnote mark. X is to be replaced by the series letter. For example:

```
\begin{Leftside}
\beginnumbering
\pstart
A little cat\footnoteAnomk{A note.}. And so one ...
\pend
\endnumbering
\end{Leftside}
\begin{Rightside}
\beginnumbering
\pstart
Un petit chat\footnoteAmk. And so one ...
\pend
\endnumbering
\end{Rightside}
```

6.4 Critical notes called on leftside but printed on right side

Sometimes, you need to print the critical notes on the right side, despite the fact that they refer to the lemmas on the left side. In this case, you must use `\edtextlater` and `\edtextnow`. The `\edtextlater{⟨lemma⟩}{⟨footnote command⟩}` command must be called on the same side as the lemma. It is similar to the standard `\edtext` command, but does not add the footnote immediately on the page, keeping it for later. `\edtextnow`

`\edtextlater`

`\edtextnow`

must be called on the side on which you want to print the lemma, approximately at the point corresponding to the equivalent `\edtextlater` command. It will add the notes stored by the equivalent `\edtextlater` command.

The relationship between the `\edtextlater` and `\edtextnow` commands is determined by the order of calling: the first `\edtextnow` corresponds to the first `\edtextlater`, the second `\edtextnow` corresponds to the second `\edtextlater` etc.

`\edtextnow` is a parameterless macro, so it gobbles the following space. If you want to keep it, add `{ }` or backslash followed by a space.

6.5 Using line flag

`\Xlineflag` Use `\Xlineflag[⟨s⟩]` to add right line flag (7.7 p. 20) to right critical footnotes and
`\Xendlineflag` `\Xendlineflag[⟨s⟩]` to add it to right critical endnotes.

7 Left and right texts

7.1 Environments

Parallel texts are divided into Leftside and Rightside. The form of the contents of these two are independent of whether they will be set in columns or pages.

`Leftside` The left text is put within the Leftside environment and the right text likewise in
`Rightside` the Rightside environment. The number of Leftside and Rightside environments must be the same.

7.2 Numbering text lines and paragraphs

`\beginnumbering` Each section of numbered text must be preceded by `\beginnumbering` and followed by
`\endnumbering` `\endnumbering`, like:

```
\beginnumbering
⟨text⟩
\endnumbering
```

These have to be separately specified within Leftside and Rightside environments.

The `\beginnumbering` macro resets the line number to zero, reads an auxiliary file called `⟨jobname⟩.nn` (where `⟨jobname⟩` is the name of the main input file for this job, and `nn` is 1 for the first numbered section, 2 for the second section, and so on), and then creates a new version of this auxiliary file to collect information during this run. Separate auxiliary files are maintained for right hand texts and these are named `⟨jobname⟩.nnR`, using the ‘R’ to distinguish them from the left hand and serial (non-parallel) texts.

`\memorydump` The command `\memorydump` effectively performs an `\endnumbering` immediately followed by a `\beginnumbering` while not restarting the numbering sequence. This has the effect of clearing TeX’s memory of previous texts and any associated notes, allowing longer apparent streams of parallel texts. The command should be applied to both left and right texts, and after making sure that all previous notes have been output. For example, along the lines of:

```
\begin{pages}
```



```

\begin{Leftside}
  \beginnumbering
  ...
\end{Leftside}
\begin{Rightside}
  \beginnumbering
  ...
\end{Rightside}
\end{pages}
\Pages
\begin{pages}
\begin{Leftside}
  \memorydump
  ...
\end{Leftside}
\begin{Rightside}
  \memorydump
  ...
\end{pages}

```

It is possible to insert a number at every `\pstart` command. You must use the `\numberpstarttrue` command to have it. You can stop the numbering with `\numberpstartfalse`.

You can modify the number by changing the values of the `pstartL` and `pstartR` counters (for left and right side, respectively). For example:

```
\setcounter{pstartL}{0}% To reset the counter of pstart for the left side.
```

`\thepstartL` You can redefine the commands `\thepstartL` and `\thepstartR` to change style. The numbering restarts on each `\beginnumbering`.

`\thepstartR` The command `\skipnumbering` when inserted in a line of parallel text causes the numbering of that particular line to be skipped. This can be useful if you are putting some kind of marker (even if it is only a blank line) between stanzas. Remember, parallel texts must be numbered and this provides a way to slip in an “unnumbered” line. When inserted into a numbered line the macro `\hidenumbering` causes the number for that particular line to be hidden; namely, no line number will print. Note that if you use it in `\stanza`, you must call it at the beginning of the verse.

`\hidenumbering`

7.3 First line number and line number increment

`\firstlinenum` Following `\firstlinenum{<num>}` the first line number will be `<num>`, and following `\linenumincrement{<num>}` only every `<num>`th line will have a printed number.

`\linenumincrement` The lineation commands which finish by a R apply for right text. The lineation commands which are starred apply for both left and right texts. The lineation command which does not finish by a R and who are not starred apply for the left side. **However, these commands apply to right side when they are called inside a left environment. However, such features should not be used any more. The recommended**

`\firstsublinenum`
`\sublinenumincrement`


```

\firstlinenum*
\linenumincrement*
\firstsublinenum*
\sublinenumincrement*
\firstlinenumR
\linenumincrementR
\firstsublinenumR
\sublinenumincrementR
\lineationR
\lineation*

```

practice is to add all setting commands to the preamble. The starred versions change both left and right numbering schemes.

The suffixed version change the right side, without regard to the position they are called.

7.4 Lineation system

`\lineationR` macro is the equivalent of `reledmac \lineation` macro for the right side.

`\lineation*` macro is the equivalent of `reledmac \lineation` macro for both sides.

`reledmac` allows you to define a `\linenumberlist` to explicitly define (5.3.2 p. 22) in which line the line number will be printed. In parallel typesetting, this command affects only left side. For right side, you have to define `\linenumberlistR`.

7.5 Line number style

```

\linenumberstyleR
\sublinenumberstyleR
\linenumberstyle*
\sublinenumberstyle*

```

`\linenumberstyleR` is the equivalent of `reledmac \linenumberstyle` for right text.

`\sublinenumberstyleR` is the equivalent of `reledmac \sublinenumberstyle` right text. The starred version are for both side.

7.6 Line number margin

```

\linenummarginR
\linenummargin*

```

`\linenummarginR{<margin>}` sets the line margin for right side. `\linenummargin*{<margin>}` sets for both side. `<margin>` can be, as for `reledmac`'s `\linenummargin` one of these values: left, right, inner, outer.

```

\linenummarginColumns
\linenummarginColumnsR
\linenummarginColumns*

```

Suppose you typeset texts both in parallel pages (or in normal typesetting) and in parallel columns. In this case, your setting of line margin in parallel pages (or in normal typesetting) could be different from your setting of line margin in parallel columns. For example, you could want to have line numbers on the right when your are in parallel pages (or in normal typesetting), but when you are in parallel columns, to have them on the left for the left column and on the right for the right column.

In this case, you can use `\linenummarginColumns`, which overrides the default setting for the left column, `\linenummarginColumnsR` which overrides the default setting for the right column, and `\linenummarginColumns*`, which overrides the default for both left and right columns.

```

\linenumOnlyPagesForColumns
\linenumOnlyPagesForColumnsR

```

Another usual case is when you have text in parallel columns and want to get line numbers only on the outer margin. In this case, you need to get line numbers on the left side of the left column on left pages and on the right side of the right column on the right pages.

Reciprocally, if you want line numbers only in the inner margin, you need to get line numbers on the right side of the right column on left pages and on the left side of the left column on the right pages.

In both cases, you need, for one column, to have line numbers only on one page of a double page.

You can use `\linenumOnlyPagesForColumns` and `\linenumOnlyPagesForColumnsR` to get this result:

```
\linenummargin{left}
\linenummarginR{right}
% To get only on the outer margin
\linenumOnlyPagesForColumns{left}
\linenumOnlyPagesForColumnsR{right}
% To get only on the inner margin
\linenumOnlyPagesForColumns{right}
\linenumOnlyPagesForColumnsR{left}
% To get on the inner or the outer margin
\linenumOnlyPagesForColumns{}
\linenumOnlyPagesForColumnsR{}
```

Note that these settings only apply when we are typesetting columns (as, if we are not typesetting columns, the “inner” and “outer” setting of `\linenummargin` and `\linenummarginR` are enough).

```
\linenumberLevenifblanktrue
\linenumberRevenifblanktrue
```

By default, when a blank line is printed on one side, no line number is printed for the sake of synchronizing with the other side, . However, line numbers can be printed for blank lines as well. Use `\linenumberLevenifblanktrue` to enable this on the left side and `\linenumberRevenifblanktrue` for the right side.

7.7 Line flag

```
\setRlineflag
```

A “R” is appended to the line numbers of the right texts. This may be useful for parallel columns but for parallel pages it might be more appropriate to redefine it using `\setRlineflag{<flag>}`. Use `\setRlineflag{}` to empty it.

7.8 Chunks

```
\pstart
\pend
```

In a serial (non-parallel) mode, each numbered paragraph, or chunk, is contained between the `\pstart` and `\pend` macros, and the paragraph is output when the `\pend` macro occurs. The situation is somewhat different with parallel typesetting as the left text (contained within `\pstart` and `\pend` groups within the `Leftside` environment) has to be set in parallel with the right text (contained within its own `\pstart` and `\pend` groups within the corresponding `Rightside` environment) the `\pend` macros cannot immediately initiate any typesetting — this has to be controlled by the `\Columns` or `\Pages` macros. Several chunks may be specified within a `Leftside` or `Rightside` environment. A multi-chunk text then looks like:

```
\begin{...side}
% \beginnumbering
\pstart first chunk \pend
\pstart second chunk \pend
...
\pstart last chunk \pend
% \endnumbering
```



```
\end{...side}
```

Numbering, via `\beginnumbering` and `\endnumbering`, may extend across several `Leftside` or `Rightside` environments. Remember, though, that the left/right sides are effectively independent of each other.

`\autopar` The `\autopar` macro can be used, instead of manually inserting `\pstart... \pend`s. Please read `reledmac`'s handbook (5.2.2 p. 19).

7.9 `\AtEveryPstart` and `\AtEveryPstartCall`

In general, remember that the moment where a `\pstart` is called is different from the moment when the `\pstart... \pend` content is printed, which is when `\Pages` or `\Columns` is processed.

Consequently:

- The argument of `\AtEveryPstart` (see 5.2.4 p. 20) is called before every chunk is printed, except if you used an optional argument for the `\pstart`.
- The argument of `\AtEveryPstartCall` is called before every `\pstart`.

7.10 Language setting

If you are using the `babel` package or the `polyglossia` package, with different languages (via, say, `\selectlanguage`) for the left and right texts it is particularly important to select the appropriate language within the `Leftside` and `Rightside` environments. The initial language selected for the right text is the `babel` package's default. Also, it is the *last* language setting in a side that controls the language used in any notes for that side when they get printed. If you are using multilingual notes then it is probably safest to explicitly specify the language(s) for each note rather than relying on the language selection for the side. The right side language is also applied to the right side line numbers.

7.11 Executing code at each line

```
\dolineLhook \dolineRhook
```

`\dolineLhook` and `\dolineRhook` are the equivalent to the `reledmac` `\dolinehook`, respectively for left and right side.

```
\doinsidelineLhook \doinsidelineRhook
```

`\doinsidelineLhook` and `\doinsidelineRhook` are the equivalent to the `reledmac` `\doinsidelinehook`, for the left and the right sides respectively.

About these two hooks, read `reledmac`'s handbook (5.6 p. 28).

7.12 Executing code at each page

```
\Rightpagehook \Leftpagehook
```

When typesetting parallel pages, the `\Leftpagehook` and `\Rightpagehook` macros are executed each time `reledpar` switches to Left / Right page.

These macro are initially void. You can redefine them using `\renewcommand`.

8 Verse

If you are typesetting verses with `reledmac` you can use the `\stanza` construct, and you can also use this in right or left parallel texts. In this case each verse line is a chunk which has two implications. (1) you can unexpectedly exceed the `\maxchunks` limit or the overall limit on the number of boxes, and (2) left and right verse lines are matched, which may not be desirable if one side requires more print lines for verse lines than the other does.

`astanza` `reledpar` provides an `astanza` environment which you can use instead of `\stanza`. A `astanza` environment is a chunk. Consequently left and right *verse* are matched, and not, as with standard `\stanza`, left and right *verse lines*.

Within the `astanza` environment each verse line is treated as an individual paragraph, so there must be no blank lines in the environment otherwise there will be some extraneous vertical spacing. To use `astanza`, simply replace `\stanza` by `\begin{astanza}` and add `\end{astanza}` after the ending `\&`.

The difference between `astanza` and `\stanza` is, that the latter syncs verse by verse, while the environment syncs stanza by stanza.

If you get an error message along the lines of ‘Missing number, treated as zero `\sza@0@`’ it is because you have forgotten to use `\setstanzaindent`s to set the stanza indents.

As `astanza` is a specific type of `\pstart... \pend` structure, you can:

- Add optional argument (in brackets) after `\begin{astanza}`, as the optional argument of `\pstart`.
- Use optional argument after the last `\&` as optional argument of `\pend`.

`\sethangingsymbol` Like in `reledmac`, you could use the `\sethangingsymbol` command to insert a character in each hanging line. If you use it, you must run \TeX two time. Example for the French typography

```
\sethangingsymbol{[,]}
```

You can also use it to force hanging verse to be flush right:

```
\sethangingsymbol{\protect\hfill}
```

When you use `\lednopb` make sure to use it on both sides in the corresponding verses to keep the pages in sync.

`\thestanzaL` `\thestanzaR` When using `\stanzanumtrue` (9.10 p. 61) in parallel typesetting, stanza counter is replaced by `stanzaL` counter in left side and by `stanzaR` counter in right side. Consequently, you can redefine `\thestanzaL` and `\thestanzaR` to change their aspect.

9 Side notes

As in `reledmac`, you must use one of the following commands to add side notes: `\ledsidenote`, `\ledleftnote`, `\ledrightnote`, `\ledouternote`, `\ledinnernote`.

The `\sidenotemargin` defines the margin of the sidenote for either left or right side, depending on the current environment.

The `\sidenotemarginR` defines the margin of the sidenote for the right side.

You can use `\sidenotemargin*` to define it for both sides.

When typesetting parallel columns, the margin where a sidenote is placed is one of the margins of the column the sidenote is called. However, you can load `reledpar` with the `sidenotesmarginpage` to use the margin of the page, and not of the column.

10 Parallel ledgroups

10.1 General

You can also make parallel ledgroups (see the documentation of `reledmac` about ledgroups, 10 p. 62). To do it you have:

- To load `reledpar` package with the `parledgroup` option, or to add `\parledgrouptrue`.
- To push each ledgroup between `\pstart... \pend` command.

See the following example:

```
\begin{pages}
\begin{Leftside}
  \beginnumbering
  \pstart
    \begin{ledgroup}
      ledgroup content
    \end{ledgroup}
  \pend
  \pstart
    \begin{ledgroup}
      ledgroup content
    \end{ledgroup}
  \pend
  \endnumbering
\end{Leftside}
\begin{Rightside}
  \beginnumbering
  \pstart
    \begin{ledgroup}
      ledgroup content
    \end{ledgroup}
  \pend
  \pstart
    \begin{ledgroup}
      ledgroup content
    \end{ledgroup}
  \pend
  \endnumbering
\end{Rightside}
```



```

\end{Rightside}
\end{pages}
\Pages

```

10.2 Parallel ledgroups and setspace package

If you use the `setspace` package and want your notes in parallel ledgroups to be single-spaced (not half-spaced or double-spaced), just add to your preamble:

```
\setparledgroupnotespacing{\singlespacing}
```

In effect, to have correct spacing, do not change the font size of your notes.

11 Sectioning commands

The standard sectioning commands of `reledmac` are available, and provide parallel sectioning, for both two-column and two-page layout.

`\eledsectnotoc` By default, the section commands of the right side are not added to the table of contents. But you can change it, using `\eledsectnotoc{⟨arg⟩}`, where `⟨arg⟩` could be L (for left side) or R (for right side).

`\eledsectmark` By default, the headers are tokens from the left side. You can change them, using `\eledsectmark{⟨arg⟩}`, where `⟨arg⟩` could be L (for left side) or R (for right side).

12 Notes about page number

If you use `sameparallepagenumber` option (6.2.3 p. 14 or `prevpgnotnumbered` option (6.2.5 p. 14), please read the following paragraph if you want to manipulate page numbers manually.

In order to implement these two options, `reledpar` uses its own page counter, called `par@page`. Consequently, if you use at least one of these options:

1. If you modify `\thepage` command, use the value of `par@page` counter inside and not the value of `page` counter.
2. If you want to modify a page number, modify the value of `page` counter AND the value `par@page` counter.

Notes that `reledpar` automatically do it when you use `\frontmatter` and `\mainmatter` commands.

I Implementation overview

\TeX is designed to process a single stream of text, which may include footnotes, tables, and so on. It just keeps converting its input into a stream typeset pages. It was not designed for typesetting two texts in parallel, where it has to alternate from one to the other. Further, \TeX essentially processes its input one paragraph at a time — it is very difficult to get at the ‘internals’ of a paragraph such as the individual lines in case you want to number them or put some mark at the start or end of the lines.

`reledmac` solves the problem of line numbering by putting the paragraph in typeset form into a box, and then extracting the lines one by one from the box for \TeX to put them onto the page with the appropriate page breaks. Most of the `reledmac` code is concerned with handling this box and its contents.

`reledpar`’s solution to the problem of parallel texts is to put the two texts into separate boxes, and then appropriately extract the pairs of lines from the boxes. This involves duplicating much of the original box code for an extra right text box. The other, smaller, part of the code is concerned with coordinating the line extractions from the boxes.

II Preliminaries

II.1 Package’s meta-data

Announce the name and version of the package, which is targeted for \LaTeX 2e . The package also requires the `reledmac` package, however we do not load it automatically, because we prefer users to know it.

```

1 %<*code>
2 \NeedsTeXFormat{LaTeX2e}
3 \ProvidesPackage{reledpar}[2020/09/16 v2.24.2 reledmac extension for
  parallel texts]%
4
5 %
```

II.2 Package’s requirement

Few commands use `\xspace` command.

```

6 \RequirePackage{xspace}%
7 %
```

II.3 Package’s options

We use `xkeyval` in order to manage options with arguments.

```

8 \RequirePackage{xkeyval}
9 %
```


II.4 Package's options

II.4.1 Synchronization's options

`\@par@this@sync@option` The `\par@sync@option` stores the options of synchronization. It use to ensure these options do not change between two run.

```
10 \def\@par@this@sync@option{%
11 %
```

With the option 'shiftedpstarts' a long pstart on the left side (or on the right side) does not make a blank on the corresponding pstart, but the blank is put on the bottom of the page. Consequently, the pstarts on the parallel pages are shifted, but the shift stops at every end of pages.

```
\ifshiftedpstarts 12 \newif\ifshiftedpstarts
13 \DeclareOptionX{shiftedpstarts}{%
14 \shiftedpstartstrue%
15 \apptocmd{\@par@this@sync@option}{shifted}{-}{-}%
16 }%
17 %
```

With the option 'advancedshiftedpstarts' a long pstart on the left side (or on the right side) does not make a blank on the corresponding pstart, but the blank is put on the bottom of the page. Consequently, the pstarts on the parallel pages are shifted, but the shift stops at every end of pages. Differing to shiftedpstarts, the pstart shift are not counted to determine when cutting the page. That could help to avoid page with blank lines at the bottom.

```
\ifshiftedpstarts 18 \newif\ifadvancedshiftedpstarts
19 \DeclareOptionX{advancedshiftedpstarts}{%
20 \advancedshiftedpstartstrue%
21 \shiftedpstartstrue%
22 \apptocmd{\@par@this@sync@option}{advancedshifted}{-}{-}%
23 }%
24 %
```

With the option `nomaxlines`, `reledpar` allows facing pages to have not the same number of lines.

```
\ifnomaxlines 25 \newif\ifnomaxlines%
26 \DeclareOptionX{nomaxlines}{%
27 \nomaxlinestrue%
28 \apptocmd{\@par@this@sync@option}{nomax}{-}{-}%
29 }%
30 %
```

With the option `nosyncpstarts`, `reledpar` only alternate between left and right side, and does not try to obtain the same number of line in corresponding page.


```

\ifnosyncpstarts%31 \newif\ifnosyncpstarts%
32 \DeclareOptionX{nosyncpstarts}{%
33   \shiftedpstartstrue%
34   \nomaxlinesttrue%
35   \nosyncpstartstrue%
36   \apptocmd{\@par@this@sync@option}{nosync}{-}{-}%
37 }%
38 %

```

II.4.2 Position options

`\movecolumnsonrightpage` The `\ifmovecolumnsonrightpage` boolean is set to true if, for a right page, we want the left column become a right column and the right column become a left column.

```

39 \newif\ifmovecolumnsonrightpage%
40 \DeclareOptionX{movecolumnsonrightpage}{%
41   \movecolumnsonrightpagetrue%
42 }%
43 %

```

`\if@sidenotesmarginpage` With the `sidenotesmarginpage`, a left sidenote called in a right column will be printed at the left of the page, and a right sidenote called in a left column will be printed at the right of the page.

```

44 \newif\if@sidenotesmarginpage%
45 \DeclareOptionX{sidenotesmarginpage}{%
46   \@sidenotesmarginpagetrue%
47 }%
48 %

```

II.4.3 Other options

The `parledgroup` can be called either on `reledmac` or `reledpar`.

```

49 \DeclareOptionX{parledgroup}{\parledgrouptrue}
50 %

```

`\ifwidthliketwocolumns` The `widthliketwocolumns` and `continuousnumberingwithcolumns` options can be called either on `reledmac` or `reledpar`.

```

51 \DeclareOptionX{widthliketwocolumns}{\widthliketwocolumnstrue}%
52 \DeclareOptionX{continuousnumberingwithcolumns}{\
  continuousnumberingwithcolumnstrue}%
53 %

```

Options related to page numbering. The booleans are defined in `reledmac`.


```

54 \DeclareOptionX{sameparallelpagenumber}{\sameparallelpagenumbertrue}
55 \DeclareOptionX{prevpgnotnumbered}{\prevpgnotnumberedtrue}
56 %

```

`\prevpgstyle` We store on `\prevpgstyle` the argument of the option `prevpgstyle`.

```

57 \DeclareOptionX{prevpgstyle}{\gdef\prevpgstyle{#1}}%
58 %

```

```

59 \ProcessOptionsX%
60 %

```

II.5 Determining side and category of parallel processing

As noted above, much of the code is a duplication of the original `reledmac` code to handle the extra box(es) for the right hand side text, and sometimes for the left hand side as well. In order to distinguish we use ‘R’ or ‘L’ in the names of macros for the right and left code. The specifics of ‘L’ and ‘R’ are normally hidden from the user by letting the `Leftside` and `Rightside` environments set things up appropriately.

`\ifl@dpairing` `\ifl@dpairing` is set TRUE if we are processing parallel texts and `\ifl@dpaging` is also set TRUE if we are doing parallel pages. `\ifledRcol` is set TRUE if we are doing the right hand text. They are defined in `reledmac`.

II.6 Text’s width

`\Lcolwidth` The widths of the left and right parallel columns (or pages). The suffixed versions are not manipulated directly by user, but we use them to be certain to have the same coldwidth in the pages environment and in the `\Pages` command.

```

61 \newdimen\Lcolwidth
62 \Lcolwidth=0.45\textwidth
63 \newdimen\Rcolwidth
64 \Rcolwidth=0.45\textwidth
65 \newdimen\Lcolwidth@pages
66 \newdimen\Rcolwidth@pages
67 %

```

II.7 Messages

All the error and warning messages are collected here as macros.

```

\reledpar@error 68 \newcommand{\reledpar@error}[2]{\PackageError{reledpar}{#1}{#2}}
69 %

```



```

\reledpar@warning70 \newcommand{\reledpar@warning}[1]{\PackageWarning{reledpar}{#1}}%
71 %

\led@err@TooManyPstarts72 \newcommand*{\led@err@TooManyPstarts}{%
73 \reledpar@error{Too many \string\pstart\space without printing.
74 Some text will be lost}{\@ehc}}
75 %

\led@err@polyglossiaTooOld76 \newcommand{\led@err@polyglossiaTooOld}{%
77 \reledpar@error{You use the polyglossia package.%
78 \MessageBreak However, reledpar requires version 2020/04/08 v1.49 or
later of the polyglossia package.%
79 \MessageBreak Please update your polyglossia version}{\@ehc}%
80 }%
81 %

\led@err@BadLeftRightPstarts82 \newcommand*{\led@err@BadLeftRightPstarts}[2]{%
83 \reledpar@error{The numbers of left (#1) and right (#2)
84 \string\pstart s do not match}{\@ehc}}
85 %

\led@err@LeftOnRightPage86 \providebool{syntax@}
\led@err@RightOnLeftPage87 \newcommand*{\led@err@LeftOnRightPage}{%
88 \notbool{syntax@}%
89 {\reledpar@error{The left page has ended on a right page}{\@ehc}}%
90 {}%
91 }
92 \newcommand*{\led@err@RightOnLeftPage}{%
93 \notbool{syntax@}%
94 {\reledpar@error{The right page has ended on a left page}{\@ehc}}
95 {}%
96 }%
97 %

\led@err@Leftside@PreviousNotPrinted98 \newcommand*{\led@err@Leftside@PreviousNotPrinted}{%
\led@err@Rightside@PreviousNotPrinted99 \reledpar@error{You call a new Leftside environment while the previous
one has not been typeset by \string\Pages\space or \string\Columns}{\@ehc}}
100 \newcommand*{\led@err@Rightside@PreviousNotPrinted}{%
101 \reledpar@error{You call a new Rightside environment while the previous
one has not been typeset by \string\Pages\space or \string\Columns}{\@ehc}}
102 %

```


107

112

121

125

129


```

132 }%
133 \newcommand{\led@error@note@called@onleftside}[1]{%
134   \reledpar@error{#1 called on left side, despite your configuring it to be
    for the right side only}{\@ehc}%
135 }%
136 %

```

```

error@fail@patch@@mempnum 37 \newcommand{\led@error@fail@patch@@mempnum}{%
138   \reledpar@error{Fail to patch \string\@mempnum\space command.}{\@ehc}%
139 }%
140 %

```

```

or@fail@patch@@outputpage 41 \newcommand{\led@error@fail@patch@@outputpage}{%
142   \reledpar@error{Fail to patch \string\@outputpage\space command.}{\@ehc}%
143 }%
144 %

```

```

ed@error@edtext@later@now 45 \newcommand{\led@error@edtext@later@now}{%
146   \reledpar@error{You call \the\edtext@later\space \string\edtextlater\
    space commands, but \the\edtext@now\space \string\edtextnow\space commands
    }{\@ehc}% (did I follow your intent correctly here?)
147 }%
148 %

```

```

led@warn@ChangeSyncOption 49 \newcommand*\led@warn@ChangeSyncOption}[1]{%
150   \reledpar@warning{You have changed synchronization's options since the
    last run. We have not read line-list file #1. Please run LaTeX again.}%
151 }%
152 %

```

```

warn@setting@in@rightside 53 \newcommand{\led@warn@setting@in@rightside}[1]{%
154   \reledpar@warning{You use #1 inside rightside environment.\MessageBreak%
155   Such behavior is deprecated.\MessageBreak%
156   Use instead #1R or #1* in your preamble.}%
157 }
158 %

```

```

d@error@missing@numbering 59 \newcommand{\led@error@missing@numbering}[1]{%
160   \reledpar@error{Missing \string\pstart\space ... \space \string\pend\space
    inside `#1` environment}{\@ehc}%
161 }%
162 %

```


II.8 Naming macros

The \LaTeX kernel provides \@namedef and \@namuse for defining and using macros that may have non-letters in their names. We need something similar here as we are going to need and use some numbered boxes and counters.

\newnamebox \setnamebox A set of macros for creating and using ‘named’ boxes; the macros are called after the regular box macros, but including the string ‘name’.

```

163 \providecommand*\newnamebox}[1]{%
164   \expandafter\newbox\csname #1\endcsname}
165 \providecommand*\setnamebox}[1]{%
166   \expandafter\setbox\csname #1\endcsname}
167 \providecommand*\unhnamebox}[1]{%
168   \expandafter\unhbox\csname #1\endcsname}
169 \providecommand*\unvnamebox}[1]{%
170   \expandafter\unvbox\csname #1\endcsname}
171 \providecommand*\namebox}[1]{%
172   \csname #1\endcsname}
173
174 %
```

\ifcsboxvoid The \ifcsboxvoid command comes on top of the `etoolbox` package. The first argument is a box name, the second is the $\langle true \rangle$ value, the third the $\langle false \rangle$ value. If the first argument refers to a non-existing box, or if it refers to a box that is void, the $\langle true \rangle$ value is returned. otherwise, $\langle false \rangle$ is returned.

```

175 \newcommand*\ifcsboxvoid}[1]{%
176   \ifcsname#1\endcsname%
177   \expandafter\ifvoid\csname #1\endcsname%
178   \expandafter\expandafter%
179   \expandafter\@firstoftwo%
180   \else%
181   \expandafter\expandafter%
182   \expandafter\@secondoftwo%
183   \fi%
184   \else%
185   \expandafter\@firstoftwo%
186   \fi%
187 }%
188 %
```

\newnamecount \usenamecount Macros for creating and using ‘named’ counts.

```

189 \providecommand*\newnamecount}[1]{%
190   \expandafter\newcount\csname #1\endcsname}
191 \providecommand*\usenamecount}[1]{%
192   \csname #1\endcsname}
193
194 %
```


III Sectioning commands

`\section@numR` This is the right side equivalent of `\section@num`.

Each section will read and write an associated ‘line-list file’, containing information used to do the numbering. Normally the file will be called `\jobname\section@num`, where `nn` is the section number. However, for right side texts the file is called `\jobname\section@numR`. The `\extensionchars` applies to the right side files just as it does to the normal files.

```
195 \newcount\section@numR
196 \section@numR=\z@
197 %
```

`\ifpst@rtedL` `\ifpst@rtedL` is set FALSE at the start of left side numbering, and similarly for `\ifpst@rtedR`. `\ifpst@rtedL` is defined in `reledmac`.

```
198 \pst@rtedLfalse
199 \newif\ifpst@rtedR
200
201 %
```

`\beginnumberingR` This is the right text equivalent of `\beginnumbering`, and begins a section of numbered text.

```
202 \newcommand*{\beginnumberingR}{%
203   \ifnumberingR
204     \led@err@NumberingStarted
205     \endnumberingR
206   \fi
207   \global\l@dnumpststartsR \z@
208   \global\pst@rtedRfalse
209   \global\numberingRtrue
210   \global\afterendnumberingRfalse%
211   \global\advance\section@numR \c@ne
212   \global\absline@numR \z@
213   \gdef\normal@page@breakR{}
214   \gdef\l@prev@pbR{}
215   \gdef\l@prev@nopbR{}
216   \global\line@numR \z@
217   \global\@lockR \z@
218   \global\sub@lockR \z@
219   \global\sublines@Rfalse
220   \global\let\next@page@numR\relax
221   \global\let\this@section@next@page@numR\relax%
222   \global\let\sub@change\relax
223   \global\last@page@numR=-10000%
224   \global\stopmsdata@inserted@true%
225   \global\let\@msdata@list\relax%
226   \global\csundef{\@msdata@\add@msd@cR @dataR}%
227   \ifcontinuousnumberingwithcolumns%
```



```

228 \ifnumbering%
229 \global\resumenumberingR@starttrue%
230 \fi%
231 \ifnumberpstart%
232 \addtocounter{pstartR}{1}%
233 \fi%
234 \else%
235 \setcounter{pstartR}{1}%
236 \fi%
237 \message{Section \the\section@numR R }%
238 \line@list@stuffR{\jobname.\extensionchars\the\section@numR R}%
239 \l@dend@stuff
240 \begingroup
241 \initnumbering@sectcountR
242 \gdef\eled@sectionsR@{ }%
243 \if@noeled@sec\else%
244 \makeatletter%
245 \InputIfFileExists%
246 {\l@auxdir\jobname.eledsec\the\section@numR R}%
247 {}%
248 {\led@warn@NoFile{\l@auxdir\jobname.eledsec\the\section@numR R}}%
249 \makeatother%
250 \immediate\openout\eled@sectioningR@out=\l@auxdir\jobname.eledsec\the\
section@numR R\relax%
251 \fi%
252 }
253 %

```

\endnumbering This is the left text version of the regular `\endnumbering` and must follow the last text for a left text numbered section. It sets `\ifpst@rtedL` to FALSE. It is fully defined in `reledmac`.

\endnumberingR This is the right text equivalent of `\endnumbering` and must follow the last text for a right text numbered section.

```

254 \def\endnumberingR{%
255 \ifnumberingR
256 \global\numberingRfalse
257 \global\afterendnumberingRtrue%
258 \normal@pars
259 \ifnum\l@dnumpstartsR=0%
260 \led@err@NumberingWithoutPstart%
261 \fi%
262 \global\page@numR=\this@section@page@numR%
263 \global\last@page@numR=\this@section@last@page@numR%
264 \global\let\next@page@numR\this@section@next@page@numR%
265 \ifl@dpairing
266 \global\pst@rtedRfalse
267 \else
268 \ifx\insertlines@listR\empty\else

```



```

269     \global\noteschanged@true
270   \fi
271   \ifx\line@listR\empty\else
272     \global\noteschanged@true
273   \fi
274 \fi
275 \ifnoteschanged@
276   \led@mess@NotesChanged
277 \fi
278 \else
279   \led@err@NumberingNotStarted
280 \fi
281 \endgroup
282 \if@noeled@sec\else%
283   \immediate\closeout\eled@sectioningR@out%
284 \fi%
285 }
286
287 %

```

`\initnumbering@sectcountR` We do not want the right side section commands to be numbered after the left side ones, instead we want them numbered after which is typeset before the pages or columns environments. we switch the \LaTeX counter in `\numberingR`.

```

288 \newcounter{chapterR}
289 \newcounter{sectionR}
290 \newcounter{subsectionR}
291 \newcounter{subsubsectionR}
292
293 \newcount\old@chapter%
294 \newcount\old@section%
295 \newcount\old@subsection%
296 \newcount\old@subsubsection%
297 \newcommand{\save@section@number}{%
298   \ifdefined\c@chapter%
299     \global\old@chapter\value{chapter}%
300   \fi%
301   \global\old@section\value{section}%
302   \global\old@subsection\value{subsection}%
303   \global\old@subsubsection\value{subsubsection}%
304 }%
305 \newcommand{\initnumbering@sectcountR}{
306   \ifdefined\c@chapter%
307     \setcounter{chapterR}{\old@chapter}%
308   \fi%
309   \setcounter{sectionR}{\old@section}%
310   \setcounter{subsectionR}{\old@subsection}%
311   \setcounter{subsubsectionR}{\old@subsubsection}%
312   \set@sectcountR%
313 }

```



```

314 \newcommand{\set@sectcountR}{%
315     \let\c@chapter\c@chapterR%
316     \let\c@section\c@sectionR%
317     \let\c@subsection\c@subsectionR%
318     \let\c@subsubsection\c@subsubsectionR%
319 }%
320 %

```

`\pausenumberingR` These are the right text equivalents of `\pausenumbering` and `\resumenumbering`.

```

\resumenumberingR
\ifresumenumberingR@start
\pausenumbering@page@numR
321 \newcount\pausenumbering@page@numR%
322 \newcommand*{\pausenumberingR}{%
323     \ifx\this@section@next@page@numR\relax%
324         \global\pausenumbering@page@numR=0%
325     \else%
326         \global\pausenumbering@page@numR=\this@section@next@page@numR%
327     \fi%
328     \endnumberingR%
329     \global\numberingRtrue%
330     \global\afterendnumberingRfalse%
331 }%
332 \newif\ifresumenumberingR@start%
333 \newcommand*{\resumenumberingR}{%
334     \ifnumberingR
335         \global\pst@rtedRtrue
336         \global\advance\section@numR \@ne
337         \global\resumenumberingR@starttrue%
338         \led@mess@SectionContinued{\the\section@numR R}%
339         \line@list@stuffR{\jobname.\extensionchars\the\section@numR R}%
340         \ld@dend@stuff
341         \begingroup%
342         \initnumbering@sectcountR%
343     \else
344         \led@err@NumberingShouldHaveStarted
345         \endnumberingR
346         \beginnumberingR
347     \fi}
348 %
349 %

```

`\memorydumpL` `\memorydump` is a shorthand for `\pausenumbering\resumenumbering`. This will clear the memorised stuff for the previous chunks while keeping the numbering going.

```

350 \newcommand*{\memorydumpL}{%
351     \endnumbering
352     \numberingtrue
353     \global\pst@rtedLtrue
354     \global\advance\section@num \@ne
355     \led@mess@SectionContinued{\the\section@num}%
356     \line@list@stuff{\jobname.\extensionchars\the\section@num}%

```



```

357 \l@dend@stuff}
358
359 \newcommand*{\memorydumpR}{%
360 \endnumberingR
361 \numberingRtrue
362 \global\pst@rtedRtrue
363 \global\advance\section@numR \@ne
364 \led@mess@SectionContinued{\the\section@numR R}%
365 \line@list@stuffR{\jobname.\extensionchars\the\section@numR R}%
366 \l@dend@stuff}
367
368 %

```

IV Line counting

IV.1 Setting lineation reset

Sometimes you want line numbers that start at 1 at the top of each page; sometimes you want line numbers that start at 1 at each \pstart; other times you want line numbers that start at 1 at the start of each section and increase regardless of page breaks. `reledpar` lets you choose different schemes for the left and right texts.

`\lineationR` `\lineationR{<word>}` is the macro used to select the lineation system for right texts. Its argument is a string: either `page`, `pstart` or `section`.

```

369 \newcommand*{\lineationR}[1]{%
370 \ifnumbering
371 \led@err@LineationInNumbered
372 \else
373 \def\@tempa{#1}\def\@tempb{page}%
374 \ifx\@tempa\@tempb
375 \global\bypage@Rtrue
376 \global\bypstart@Rfalse
377 \unless\ifnocritical@%
378 \Xpstart[] [false]%
379 \fi%
380 \else
381 \def\@tempb{pstart}%
382 \ifx\@tempa\@tempb
383 \global\bypage@Rfalse
384 \global\bypstart@Rtrue
385 \unless\ifnocritical@%
386 \Xpstart%
387 \fi%
388 \else
389 \def\@tempb{section}
390 \ifx\@tempa\@tempb
391 \global\bypage@Rfalse%
392 \global\bypstart@Rfalse%

```



```

393         \unless\ifnocritical@%
394         \Xpstart[] [false]%
395         \fi%
396     \else
397         \led@warn@BadLineation
398         \fi%
399     \fi
400 \fi
401 \fi}}
402 %

```

\lineation* \lineation* change the lineation system for both sides.

```

403 \WithSuffix\newcommand\lineation*[1]{%
404     \lineation{#1}%
405     \lineationR{#1}%
406 }%
407 %

```

IV.2 Setting line number margin

\linenummargin You call `\linenummargin{<word>}` to specify which margin you want your right text's line numbers in; it takes one argument, a string. You can put the line numbers in the same margin on every page using `left` or `right`; or you can use `inner` or `outer` to get them in the inner or outer margins. You can change this within a numbered section, but the change may not take effect just when you would like; if it is done between paragraphs nothing surprising should happen.

For right texts the selection is recorded in the count `\line@marginR`, otherwise in the count `\line@margin`: 0 for left, 1 for right, 2 for outer, and 3 for inner.

It is defined only once time, in `reledmac`.

```

408 \newcount\line@marginR
409 %

```

By default put right text numbers at the right.

```

410 \line@marginR=\@ne
411
412 %

```

\linenummarginR \linenummarginR applies directly for right side, while **\linenummargin*** applies for both side.

```

413 \newcommand{\linenummarginR}[1]{%
414     \l@getline@margin{#1}%
415     \ifnum\@l@dttempcntb>\m@ne%
416         \global\line@marginR=\@l@dttempcntb%
417     \fi%
418 }
419 \WithSuffix\newcommand\linenummargin*[1]{%

```



```

420 \l@getline@margin{#1}%
421 \ifnum\@l@tempcntb>\m@ne%
422   \global\line@marginR=\@l@tempcntb%
423   \global\line@margin=\@l@tempcntb%
424 \fi%
425 }
426 \ifmovecolumnspostiononrightpage%
427   \linenummargin{inner}%
428   \linenummarginR{outer}%
429 \fi%
430 %

```

\linenummarginColumns* The `\linenummarginColumns` macro overrides the definition of the line margin when typesetting in parallel columns.

```

\linenummarginColumns
\linenummarginColumnsR
431
432 \newcount\line@margin@columnsR%
433 \line@margin@columnsR=\m@ne%
434
435 \newcommand{\linenummarginColumns}[1]{%
436   \l@getline@margin{#1}%
437   \ifnum\@l@tempcntb>\m@ne%
438     \global\line@margin@columns=\@l@tempcntb%
439   \fi%
440 }%
441
442 \WithSuffix\newcommand\linenummarginColumns*[1]{%
443   \l@getline@margin{#1}%
444   \ifnum\@l@tempcntb>\m@ne%
445     \global\line@margin@columns=\@l@tempcntb%
446     \global\line@margin@columnsR=\@l@tempcntb%
447   \fi%
448 }%
449
450 \newcommand{\linenummarginColumnsR}[1]{%
451   \l@getline@margin{#1}%
452   \ifnum\@l@tempcntb>\m@ne%
453     \global\line@margin@columnsR=\@l@tempcntb%
454   \fi%
455 }%
456
457 %

```

\linenumOnlyPagesForColumns `\linenumOnlyPagesForColumns` and `\linenumOnlyPagesForColumnsR` make the line numbers be printed only on left/right page for the left/right column.

```

458 \def\linenum@OnlyPages@ForColumns{%
459 \newcommand{\linenumOnlyPagesForColumns}[1]{%
460   \gdef\linenum@OnlyPages@ForColumns{#1}%
461 }%

```



```

462 \def\linenum@OnlyPages@ForColumnsR{%
463 \newcommand{\linenumOnlyPagesForColumnsR}[1]{%
464 \gdef\linenum@OnlyPages@ForColumnsR{#1}%
465 }%
466 %
467 %

```

IV.3 Setting lineation start and step

`\c@firstlinenumR` The following counters tell reledmac which right text lines should be printed with line numbers. `firstlinenumR` is the number of the first line in each section that gets a number; `linenumincrementR` is the difference between successive numbered lines. The initial values of these counters produce labels on lines 5, 10, 15, etc. `linenumincrementR` must be at least 1.

`\c@linenumincrementR`

```

468 \newcounter{firstlinenumR}
469 \setcounter{firstlinenumR}{5}
470 \newcounter{linenumincrementR}
471 \setcounter{linenumincrementR}{5}
472 %

```

`\c@firstsublinenumR` The following parameters are just like `firstlinenumR` and `linenumincrementR`, but for sub-line numbers. `sublinenumincrementR` must be at least 1.

`\c@sublinenumincrementR`

```

473 \newcounter{firstsublinenumR}
474 \setcounter{firstsublinenumR}{5}
475 \newcounter{sublinenumincrementR}
476 \setcounter{sublinenumincrementR}{5}
477 %
478 %

```

`\firstlinenum` These are the user's macros for changing (sub) line numbers. They are defined in reledmac. The starred versions are specific to eledpar.

`\linenumincrement`

```

\firstsublinenum
\sublinenumincrement
\firstlinenum*
\linenumincrement*
\firstsublinenum*
\sublinenumincrement*
479 \WithSuffix\newcommand\firstlinenum*[1]{%
480 \setcounter{firstlinenumR}{#1}%
481 \setcounter{firstlinenum}{#1}%
482 }
483 \WithSuffix\newcommand\linenumincrement*[1]{%
484 \setcounter{linenumincrementR}{#1}%
485 \setcounter{linenumincrement}{#1}%
486 }
487 \WithSuffix\newcommand\firstsublinenum*[1]{%
488 \setcounter{firstsublinenumR}{#1}%
489 \setcounter{firstsublinenum}{#1}%
490 }
491 \WithSuffix\newcommand\sublinenumincrement*[1]{%
492 \setcounter{sublinenumincrementR}{#1}%
493 \setcounter{sublinenumincrement}{#1}%

```



```

494 }
495 %

```

```

\firstlinenumR And the ‘R’ suffixed version.
\linenumincrementR
\firstsublinenumR
\sublinenumincrementR
496 \newcommand\firstlinenumR[1]{%
497   \setcounter{firstlinenumR}{#1}%
498 }
499 \newcommand\linenumincrementR[1]{%
500   \setcounter{linenumincrementR}{#1}%
501 }
502 \newcommand\firstsublinenumR[1]{%
503   \setcounter{subfirstlinenumR}{#1}%
504 }
505 \newcommand\sublinenumincrementR[1]{%
506   \setcounter{sublinenumincrementR}{#1}%
507 }
508 %

```

IV.4 Setting line flag

`\Rlineflag` This is appended to the line numbers of right text.

```

509 \newcommand{\setRlineflag}[1]{%
510   \gdef\Rlineflag{#1}%
511 }
512 \setRlineflag{R}
513 %

```

IV.5 Setting line number style

`\linenumrepR` `\linenumrepR{<ctr>}` typesets the right line number `<ctr>`, and similarly `\sublinenumrepR` for subline numbers.

```

514 \newcommand*\linenumrepR[1]{\@arabic{#1}}
515 \newcommand*\sublinenumrepR[1]{\@arabic{#1}}
516
517 %

```

`\linenumberstyleR` The style can be changed by some user level command
`\sublinenumberstyleR`

```

518 \newcommand*\linenumberstyleR[1]{%
519   \def\linenumrepR##1{\@nameuse{@#1}{##1}}
520 \newcommand*\sublinenumberstyleR[1]{%
521   \def\sublinenumrepR##1{\@nameuse{@#1}{##1}}
522 %

```

`\linenumberstyle*` And for both side.
`\sublinenumberstyle*`


```

523 \WithSuffix\newcommand\linenumberstyle*[1]{%
524   \linenumberstyle{#1}%
525   \linenumberstyleR{#1}%
526 }%
527
528 \WithSuffix\newcommand\sublinenumberstyle*[1]{%
529   \sublinenumberstyle{#1}%
530   \sublinenumberstyleR{#1}%
531 }%
532 %
533 %

```

IV.6 Print marginal line number

`\iflinenumberLevenifblank` and `\iflinenumberRevenifblank` can be switched to TRUE if we want to print the line number, even if the line is blank.

```

534 \newif\iflinenumberLevenifblank
535 \newif\iflinenumberRevenifblank
536 %

```

`\leftlinenumR` and `\rightlinenumR` are the macros that are called to print the right text's marginal line numbers. Much of the code for these is common and is maintained in `\l@dlinenumR`.

```

537 \newcommand*{\leftlinenumR}{%
538   \l@dlinenumR
539   \kern\linenumsep}
540 \newcommand*{\rightlinenumR}{%
541   \kern\linenumsep
542   \l@dlinenumR}
543 \newcommand*{\l@dlinenumR}{%
544   \numlabfont%
545   \ifdefstring{Xlinenumannotationposition@side}{before}{%
546     \l@wrap@ifnotemptybox{Xwraplinenumannotation@side}{%
547       \csuse{annotR@the\absline@numR @the\section@numR}%
548     }%
549   }{}%
550   \linenumrepR{\line@numR}\@Rlineflag%
551   \ifsublines@R
552     \ifnum\subline@numR>\z@
553       \unskip\fullstop\sublinenumrepR{\subline@numR}%
554     \fi
555   \fi%
556   \ifdefstring{Xlinenumannotationposition@side}{after}{%
557     \l@wrap@ifnotemptybox{Xwraplinenumannotation@side}{%
558       \csuse{annotR@the\absline@numR @the\section@numR}%
559     }%
560   }{}%

```



```

561 }%
562
563 %

```

IV.7 Line-number counters and lists

IV.7.1 Correspond to those in reledmac for regular or left text

We need another set of counters and lists for the right text, corresponding to those in reledpar for regular or left text.

`\line@numR` The count `\line@numR` stores the line number that is used in the right text's marginal line numbering and in notes. The count `\subline@numR` stores a sub-line number that qualifies `\line@numR`. The count `\absline@numR` stores the absolute number of lines since the start of the right text section: that is, the number we have actually printed, no matter what numbers we attached to them.

The boolean `\ifsublines@R` is set to true when we start subline on rightside.

```

564 \newcount\line@numR
565 \newcount\subline@numR
566 \newcount\absline@numR
567 \newif\ifsublines@R%
568
569 %

```

`\line@listR` Now we can define the list macros that will be created from the line-list file. They are directly analogous to the left text ones. The full list of action codes and their meanings is given in the reledmac manual.

Here are the commands to create these lists:

```

\insertlines@listR
\actionlines@listR
\actions@listR
\annot@listR
570 \list@create{\line@listR}
571 \list@create{\insertlines@listR}
572 \list@create{\actionlines@listR}
573 \list@create{\actions@listR}
574 \list@create{\annot@listR}%
575 %

```

`\page@numR` The right text page numbers.

```

\this@section@page@numR
576 \newcount\page@numR
577 \newcount\this@section@page@numR%
578 %

```

IV.7.2 Specific to reledpar

`\linesinpar@listL` In order to synchronise left and right chunks in parallel processing we need to know how many lines are in each left and right text chunk, and the maximum of these for each pair of chunks.


```

579 \list@create{\linesinpar@listL}
580 \list@create{\linesinpar@listR}
581 \list@create{\maxlinesinpar@list}
582
583 %

```

IV.8 Reading the line-list file

\list@clearing@regR \Clear the right lines for \read@linelist

```

584 \newcommand{\list@clearing@regR}{%
585   \list@clear{\line@listR}%
586   \list@clear{\insertlines@listR}%
587   \list@clear{\actionlines@listR}%
588   \list@clear{\actions@listR}%
589   \list@clear{\linesinpar@listR}%
590   \list@clear{\linesonpage@listR}
591 }
592 %

```

\@par@sync@option When typesetting parallel pages, \@par@sync@option check if we have changed the synchronization's option since the last run. If true, we just not read the numbered file.

```

593 \newcommand{\@par@sync@option}[1]{%
594   \IfStrEq{#1}{\@par@this@sync@option}%
595   {}%
596   {\ifledRcol%
597     \led@warn@ChangeSyncOption{\jobname.\extensionchars\the\section@num}
598   }%
599   \else%
600     \led@warn@ChangeSyncOption{\jobname.\extensionchars\the\section@num}
601   }%
602   \fi%
603   \endinput%
604 }%

```

\read@linelist \read@linelist{<file>} is the control sequence that is called by \beginnumbering (via \line@list@stuff) to open and process a line-list file; its argument is the name of the file. . It is defined only once time in reledmac.

IV.9 Commands within the line-list file

This section defines the commands that can appear within a line-list file, except for \@lab which is in a later section among the cross-referencing commands it is associated with.

The macros with action in their names contain all the code that modifies the action-code list.

`\@nl@regR` `\@nl@regR` is called by `\@nl` if we are on a right side. It does everything related to the start of a new line of numbered text on a right side.

```

605 \newcommand{\@nl@regR}{%
606   \ifx\l@dchset@num\relax \else
607     \advance\absline@numR \@ne
608     \csgdef{l@dchset@numR\the\absline@numR}{}%To remember this line have
        been marked by a \setlinenum
609     \set@line@action
610     \let\l@dchset@num\relax
611     \advance\absline@numR \m@ne
612     \advance\line@numR \m@ne%    % do we need this?
613   \fi
614   \reset@current@annot%
615   \advance\absline@numR \@ne
616   \ifx\next@page@numR\relax \else
617     \page@action
618     \let\next@page@numR\relax
619   \fi
620   \ifx\sub@change\relax \else
621     \ifnum\sub@change>\z@
622       \sublines@Rtrue
623     \else
624       \sublines@Rfalse
625     \fi
626     \sub@action
627     \let\sub@change\relax
628   \fi
629   \ifcase\@lockR
630   \or
631     \@lockR \tw@
632   \or\or
633     \@lockR \z@
634   \fi
635   \ifcase\sub@lockR
636   \or
637     \sub@lockR \tw@
638   \or\or
639     \sub@lockR \z@
640   \fi
641   \ifsublines@R
642     \ifnum\sub@lockR<\tw@
643       \advance\subline@numR \@ne
644     \fi
645   \else
646     \ifnum\@lockR<\tw@
647       \advance\line@numR \@ne \subline@numR \z@
648     \fi
649   \fi}
650
```



```
651 %
652 %
```

`\last@page@numR` `\last@page@numR` holds the page number of the last right page. `\this@section@last@page@numR` holds the page number of the last right page of the current section. Its value is modified globally, contrary to `\last@page@numR`. Both are modified by `\fix@page`, defined by `reledmac`.

```
653 \newcount\last@page@numR
654 \last@page@numR=-10000
655 \newcount\this@section@last@page@numR%
656 \this@section@last@page@numR=-10000%
657
658 %
```

`\@adv` The `\@adv{<num>}` macro advances the current visible line number by the amount specified as its argument. This is used to implement `\advanceline`. It is defined in `reledmac`.

`\@set` The `\@set{<num>}` macro sets the current visible line number to the value specified as its argument. This is used to implement `\setline`. It is defined in `reledmac`.

`\l@d@set` The `\l@d@set{<num>}` macro sets the line number for the next `\pstart...` to the value specified as its argument. This is used to implement `\setlinenum`. It is defined in `reledmac`.

`\page@action` `\page@action` adds an entry to the action-code list to change the page number. It is defined in `reledmac`.

`\set@line@action` `\set@line@action` adds an entry to the action-code list to change the visible line number. It is defined in `reledmac`.

`\sub@action` `\sub@action` adds an entry to the action-code list to turn sub-lineation on or off, according to the current value of the `\ifsublines@` flag. It is defined in `reledmac`.

`\do@lockon` `\lock@on` adds an entry to the action-code list to turn line number locking on. The current setting of the sub-lineation flag tells us whether this applies to line numbers or sub-line numbers. It is defined in `reledmac`, however the code specific to right side is defined here, in `\do@lockonR`.

```
659 \newcount\@lockR
660 \newcount\sub@lockR
661
662 \newcommand*{\do@lockonR}{%
663   \xright@appenditem{\the\absline@numR}\to\actionlines@listR
664   \ifsublines@R
665     \xright@appenditem{-1005}\to\actions@listR
666     \ifnum\sub@lockR=\z@
667       \sub@lockR \@ne
```



```

668 \else
669 \ifnum\sub@lockR=\thr@@
670 \sub@lockR \@ne
671 \fi
672 \fi
673 \else
674 \xright@appenditem{-1003}\to\actions@listR
675 \ifnum\@lockR=\z@
676 \@lockR \@ne
677 \else
678 \ifnum\@lockR=\thr@@
679 \@lockR \@ne
680 \fi
681 \fi
682 \fi}
683
684 %

```

`\lock@off` `\lock@off` adds an entry to the action-code list to turn line number locking off. It is defined in `reledmac`, however the code specific to right side is defined here, in `\do@lockoffR`.

`\do@lockoff` `\do@lockoffR`

`\skip@lockoff`

```

685
686
687 \newcommand{\do@lockoffR}{%
688 \xright@appenditem{\the\absline@numR}\to\actionlines@listR
689 \ifsublines@R
690 \xright@appenditem{-1006}\to\actions@listR
691 \ifnum\sub@lockR=\tw@
692 \sub@lockR \thr@@
693 \else
694 \sub@lockR \z@
695 \fi
696 \else
697 \xright@appenditem{-1004}\to\actions@listR
698 \ifnum\@lockR=\tw@
699 \@lockR \thr@@
700 \else
701 \@lockR \z@
702 \fi
703 \fi}
704
705
706 %

```

`\n@num`

`\@ref` `\@ref` marks the start of a passage, for creation of a footnote reference. It takes two arguments:

`\@ref@regR`

`\insert@countR`

- #1, the number of entries to add to `\insertlines@list` for this reference. This value for right text, here and within `\edtext`, which computes it and writes it to the line-list file, will be stored in the count `\insert@countR`.

```
707 \newcount\insert@countR
708 %
```

- #2, a sequence of other line-list-file commands, executed to determine the ending line-number. This may also include other `\@ref` commands, corresponding to uses of `\edtext` within the first argument of another instance of `\edtext`.

`\@ref` itself is defined in `reledmac`. It calls `\ref@reg` or `\ref@regR`, depending whether we are in left or right side. Here, we define only `\ref@regR`, `\ref@reg` is already defined in `reledmac`.

The first thing `\@ref@regR` itself does is to add the specified number of items to the `\insertlines@listR` list.

```
709 \newcommand*{\@ref@regR}[2]{%
710   \global\advance\@edtext@level by 1%
711   \global\insert@countR=#1\relax
712   \loop\ifnum\insert@countR>\z@
713     \xright@appenditem{\the\absline@numR}\to\insertlines@listR
714     \global\advance\insert@countR \m@ne
715   \repeat
716 %
```

Next, process the second argument to determine the page and line numbers for the end of this lemma. We temporarily equate `\@ref` to a different macro that just executes its argument, so that nested `\@ref` commands are just skipped this time. Some other macros need to be temporarily redefined to suppress their action.

```
717 \begingroup
718   \let\@ref=\dummy@ref
719   \let\@lopR\@gobble
720   \let\page@action=\relax
721   \let\sub@action=\relax
722   \let\set@line@action=\relax
723   \let\@lab=\relax
724   \let\@lemma=\relax
725   \let\@sw\@gobblethree%
726   \let\store@annot@to@absline\@gobble%
727   #2
728   \global\endpage@num=\page@numR
729   \global\endline@num=\line@numR
730   \global\endsubline@num=\subline@numR
731   \global\let\endcurrent@annot=\current@annot%
732 \endgroup
733 %
```

Now store all the information about the location of the lemma's start and end in `\line@list@R`.


```

734 \xright@appenditem%
735   {\the\page@numR|\the\line@numR|}%
736   \ifsublines@R \the\subline@numR \else 0\fi}%
737   \the\endpage@num|\the\endline@num|}%
738   \ifsublines@R \the\endsubline@num \else 0\fi}\to\line@listR
739 \xright@appenditem%
740   {\current@annot|\endcurrent@annot}\to\annot@listR%
741 %

```

Create a list which will store all the second argument of each `\@sw` in this lemma, at this level.

```

742 \expandafter\list@create\expandafter{\csname sw@list@edtext@tmp@\the\
@edtext@level\endcsname}%
743 %

```

And now, call `\@ref@reg@parseargR`, which can be also called by `\@ref@later`

```

744 \@ref@reg@parseR{#2}%
745 %

```

Decrease edtext level counter.

```

746 \global\advance\@edtext@level by -1%
747 }
748 %

```

```

\@ref@reg@parseR49 \newcommand{\@ref@reg@parseR}[1]{%
750 %

```

Declare and init boolean for lemma in this level.

```

751 \providebool{lemmacommand@\the\@edtext@level}%
752 \boolfalse{lemmacommand@\the\@edtext@level}%
753 %

```

Execute the second argument of `\@ref` again, to perform for real all the commands within it.

```

754 #1%
755 % Now, we store the list of \protect\cs{@sw} of this current \protect\cs{
edtext} as an element of
756 % the global list of list of \protect\cs{@sw} for a \protect\cs{edtext}
depth.
757 % \begin{macrocode}
758 \ifnum\@edtext@level>0%
759 \def\create@this@edtext@level{\expandafter\list@create\expandafter{\
csname sw@list@edtextR@\the\@edtext@level\endcsname}}%
760 \ifcsundef{sw@list@edtextR@\the\@edtext@level}{\
create@this@edtext@level}{}%
761 \letcs{\@tmp}{sw@list@edtextR@\the\@edtext@level}%
762 \letcs{\@tmpp}{sw@list@edtext@tmp@\the\@edtext@level}%
763 \xright@appenditem{\expandonce\@tmpp}\to\@tmp%

```



```

764 \global\cslet{sw@list@edtextR@the\@edtext@level}{\@tmp}%
765 \fi%
766 }%
767 %

```

\@pend \@pend{<num>} adds its argument to the \linesinpar@listL list, and analogously
\@pendR for \@pendR. If needed, it resets line number. Both are defined in reledmac, but they
are empty. They are really defined only in reledpar.

```

768 \renewcommand*{\@pend}[1]{%
769   \ifbypstart%
770     \unless\ifinstanza%
771       \global\line@num=0%
772     \fi%
773   \fi%
774   \xright@appenditem{#1}\to\linesinpar@listL%
775 }%
776 \renewcommand*{\@pendR}[1]{%
777   \ifbypstartR%
778     \unless\ifinstanzaR%
779       \global\line@numR=0%
780     \fi%
781   \fi%
782   \xright@appenditem{#1}\to\linesinpar@listR%
783 }%
784 %
785 %

```

\@pstart \@pstart and cs@pstartR allows us to know, when using \nomaxlines option, in
\@pstartR which page we should start a pstart, and also how many empty lines we should let
before starting this pstart at the beginning of the page

```

786 \newcommand{\@pstart}[3]{%
787   \ifcsdef{minpage@pstart@#1}%
788     {\ifnumgreater{#2}{\csuse{minpage@pstart@#1}}%
789       {\csnumgdef{minpage@pstart@#1}{#2}}%
790     }%
791   }%
792   {\csnumgdef{minpage@pstart@#1}{#2}}
793   \csnumgdef{afterlines@pstart@#1L}{#3}%
794 }%
795 %
796 \newcommand{\@pstartR}[3]{%
797   \numdef{\@tmp}{#2-1}%Because we have not to know in which page the pstart
798   starts, but in which pair of facing page
799   \ifcsdef{minpage@pstart@#1}%
800     {\ifnumgreater{\@tmp}{\csuse{minpage@pstart@#1}}%
801       {\csnumgdef{minpage@pstart@#1}{\@tmp}}%
802     }%
803   }%

```



```

803     {\csnumgdef{minpage@pstart@#1}{\@tmp}}
804     \csnumgdef{afterlines@pstart@#1R}{#3}%
805 }%
806 %

```

`\@lopL` `\@lopL{<num>}` adds its argument to the `\linesonpage@listL` list, and analogously for `\@lopR`. Both are defined in `reledmac`, but they are empty. They are really defined only in `reledpar`.

```

807 \renewcommand*{\@lopL}[1]{%
808   \xright@appenditem{#1}\to\linesonpage@listL}
809 \renewcommand*{\@lopR}[1]{%
810   \xright@appenditem{#1}\to\linesonpage@listR}
811
812 %

```

IV.10 Writing to the line-list file

We have now defined all the counters, lists, and commands involved in reading the line-list file at the start of a section. Now we will cover the commands that `reledmac` uses within the text of a section to write commands out to the line-list.

`\linenum@outR` The file for right texts will be opened on output stream `\linenum@outR`.

```

813 \newwrite\linenum@outR
814 %

```

`\iffirst@linenum@outR` Once any file is opened on this stream, we keep it open forever, or else switch to another file that we keep open.

```

\first@linenum@out@Rtrue
\first@linenum@out@Rfalse
815 \newif\iffirst@linenum@out@R
816 \first@linenum@out@Rtrue
817 %

```

`\line@list@stuffR` This is the right text version of the `\line@list@stuff{<file>}` macro. It is called by `\beginnumberingR` and performs all the line-list operations needed at the start of a section. Its argument is the name of the line-list file. `reledmac` and `reledpar` can fill the `\next@line@list@stuffR` hook between a `\endnumberingR` (associated with numbered file n) and a `\beginnumberingR` (associated with numbered file $n + 1$). It allows adding content to the numbered file $n + 1R$ and not nR .

```

818
819 \let\next@line@list@stuffR\relax%
820 \newcommand*{\line@list@stuffR}[1]{%
821   \global\newtoggle{notfirststrun@#1}%
822   \IfFileExists{\l@auxdir#1}%
823     {\global\toggletrue{notfirststrun@#1}}%
824     {\global\togglefalse{notfirststrun@#1}}%
825   \next@line@list@stuffR%

```



```

826 \global\let\next@line@list@stuffR\relax%
827 \read@linelist{#1}%
828 \iffirst@linenum@out@R
829   \global\first@linenum@out@Rfalse
830   \immediate\openout\linenum@outR=\l@auxdir#1%
831   \immediate\write\linenum@outR{\string\line@list@version{\
this@line@list@version}}}%
832   \ifl@dpaging%
833     \immediate\write\linenum@outR{\string\@par@sync@option{\
@par@this@sync@option}}}%
834   \fi%
835 \else
836   \if@minipage%
837     \leavevmode%
838     \fi%
839     \closeout\linenum@outR%
840     \openout\linenum@outR=\l@auxdir#1%
841   \fi%
842 }%
843
844 %

```

\new@lineL The `\new@lineL` macro sends the `\@nl` command to the left text line-list file, to mark the start of a new text line.

```

845 \newcommand*\new@lineL{%
846   \ifnumberline%
847     \write\linenum@out{\string\@nl[\the\@this@cc@page][\thepage]]}%
848   \fi%
849 }%
850 %

```

\new@lineR The `\new@lineR` macro sends the `\@nl` command to the right text line-list file, to mark the start of a new text line.

```

851 \newcommand*\new@lineR{%
852   \ifnumberline%
853     \write\linenum@outR{\string\@nl[\the\@this@cc@page][\thepage]]}%
854   \fi%
855 }%
856 %

```

\flag@start We enclose a lemma marked by `\edtext` in `\flag@start` and `\flag@end`: these send the `\@ref` command to the line-list file. They are both defined in `reledmac`.

\startsub `\startsub` and `\endsub` turn sub-lineation on and off, by writing appropriate instructions to the line-list file. There are both defined in `reledmac`.

\advanceline You can use `\advanceline{<num>}` in running text to advance the current visible line-number by a specified value, positive or negative. It is defined in `reledmac`.

- `\setline` You can use `\setline{⟨num⟩}` in running text (i.e., within `\pstart... \pend`) to set the current visible line-number to a specified positive value. It is defined in `reledmac`.
- `\setlinenum` You can use `\setlinenum{⟨num⟩}` before a `\pstart` to set the visible line-number to a specified positive value. It writes a `\l@d@set` command to the line-list file. It is defined in `reledmac`.
- `\startlock` You can use `\startlock` or `\endlock` in running text to start or end line number locking at the current line. They decide whether line numbers or sub-line numbers are affected, depending on the current state of the sub-lineation flags. They are defined in `reledmac`.
- `\endlock`

`\skipnumbering`

V Marking text for notes

The `\edtext` macro is used to create all footnotes and endnotes, as well as to print the portion of the main text to which a given note or notes is keyed. The idea is to have that lemma appear only once in the `.tex` file: all instances of it in the main text and in the notes are copied from that one appearance.

- `\critext`
`\edtext`
`\set@line` The `\set@line` macro is called by `\edtext` to put the line-reference field and font specifier for the current block of text into `\l@d@nums`. It is defined in `reledmac`.

V.1 Specific hooks and commands for notes

The `reledmac \newseries@` initializes commands which are linked to notes series. However, to keep `reledmac` as light as possible, it does not define commands which are specific to `reledpar`. This is what does `\newseries@par`. The specific hooks are also defined here.

```
\newseries@par57 \newcommand{\newseries@par}[1]{%
858 %
```

V.1.1 Notes to be printed on one side only

`reledpar` allows notes to be printed on one side only. We need to declare these options. We also need box to store temporary the footnote not printed. We check the `nofamiliar` and `nocritical` `reledmac` options.

```
859 \unless\ifnofamiliar@%
860 \csgdef{onlysideX@#1}{}%
861 \newnamebox{footins#1@kept}%
862 \fi%
863 \unless\ifnocritical@%
```



```

864 \csgdef{Xonlyside@#1}{}%
865 \newnamebox{#1footins@kept}%
866 \fi%
867 %

```

V.1.2 Tools specific to familiar footnotes

```

868 \unless\ifnofamiliar@%
869 %

```

Managing correct number One problem with using familiar footnotes in parallel typesetting is the fact that the order of reading notes is not the same as the order they are typeset, because \LaTeX reads first all the notes on one side, then all the notes on the other side. Then, however, \LaTeX alternates between typesetting left-side note and right-side notes. Consequently, if we do nothing special, the note numbers are sorted in the reading order, not in the typesetting order. So we could obtain something like 1,3,2,5,4.

To prevent this problem, we use a two new counters by series. Every note, in parallel typesetting, has three associated counters.

1. A \LaTeX counter `footnoteX`. This the only one manipulated by user, and the only one finally printed.
2. A \TeX counter `footnoteX@reading`. Its value is incremented when reading the `\footnoteX` command in left or right side environments. It is used to get the correct footnote number from the `.aux` file to be typeset in the main text. This counter is already defined in `reledmac`, as it is also used for hyperlink.
3. A \LaTeX counter `footnoteX@typeset`. Its value is increased when inserting footnotes. Its value is directly used in the footnote, and is stored in the aux files to be used on the next run for the main text.

So here, we only defined the new counter.

```

870 \newcounter{footnote#1@typeset}%
871 %

```

Familiar footnotes without marks The `\footnoteXnomk` commands are for notes which are printed on the left side, while they are called in the right side. Basically, they set first toggle `\nomark@` to true, then call the `\footnoteX`. and finally add the footnote counter in the footnote counter list.

First, check the `nofamiliar` option of `reledmac`.

So declare the list.

```

872 \expandafter\list@create\csname footnote#1@mk\endcsname%
873 %

```

Then, declare the `\footnoteXnomk` command.

```

874 \expandafter\newcommand\csname footnote#1nomk\endcsname[1]{%
875 %

```


First step: just call the normal `\footnoteX`, saying that we do not want to print the mark.

```
876 \toggletrue{nomk0}%
877 \csuse{footnote#1}{##1}%
878 \togglefalse{nomk0}%
879 %
```

Second, and last, step: store the footnote counter in the footnote counters list. We use some `\let`, because `\xright@appenditem` is difficult to use with `\expandafter`.

```
880 \letcs{\@tmp}{footnote#1@mk}%
881 \numdef\@tmpa{\csuse{c@footnote#1}}%
882 \global\xright@appenditem{\@tmpa}\to\@tmp%
883 \global\cslet{footnote#1@mk}{\@tmp}%
884 }%
885 %
```

Then, declare the command which inserts the footnotemark in the right side.

```
886 \expandafter\newcommand\csname footnote#1mk\endcsname{%
887 %
```

Get the first element of the footnote mark list. As `\gl@p` is difficult to use with dynamic name macro, we use `\let` commands.

```
888 \letcs{\@tmp}{footnote#1@mk}%
889 \gl@p\@tmp\to\@tmpa%
890 \global\cslet{footnote#1@mk}{\@tmp}%
891 %
```

Set the footnotecounter with it. For the sake of security, we make a backup of the previous value.

```
892 \letcs{\old@footnote}{c@footnote#1}%
893 \setcounter{footnote#1}{\@tmpa}%
894 %
```

Define the footnote mark and print it

```
895 \protected@csxdef{\thefnmark#1}{\csuse{thefootnote#1}}%
896 \csuse{\footnotemark#1}%
897 %
```

Restore previous footnote counter and finally add space.

```
898 \setcounter{footnote#1}{\old@footnote}%
899 \xspace%
900 }%
901 %
```

End of tools specific to familiar notes.

```
902 \fi
903 %
```

End of `\newseries@par`.


```

904 }%
905 %

```

V.1.3 Get correct footnote number

```

\get@familiarfootnote@number
\save@familiarfootnote@number

```

As users can insert footnotes between two `\Pairs` or `\Pages` commands, we have to set the `\+footnoteX@typeset+` counter to the last value of the `footnoteX` counter at the beginning of these two commands.

```

906 \newcommand{\save@familiarfootnote@number}{%
907   \unless\ifnofamiliar@%
908     \def\do##1{\csxdef{saved@footnote##1}{\the\csname c@footnote##1\
endcsname}}}%
909   \dolistloop{\@series}%
910   \fi%
911   \xdef\saved@footnote{\the\c@footnote}%
912 }
913 \newcommand{\get@familiarfootnote@number}{%
914   \unless\ifnofamiliar@%
915     \def\do##1{\setcounter{footnote##1@typeset}{\csuse{saved@footnote##1}}}%
916   %
917   \dolistloop{\@series}%
918   \fi%
919   \setcounter{footnote@typeset}{\saved@footnote}%
920 }
921 %

```

V.2 Create hooks

Read the `reledmac` code handbook about `\newhookcommand@series`. Here, we create hooks which are specific to `reledpar`.

```

921 \unless\ifnocritical@%
922   \newhookcommand@series{Xonlyside}%
923 \fi%
924 \unless\ifnofamiliar@%
925   \newhookcommand@series{onlysideX}%
926 \fi
927
928
929 %

```

V.3 Init standards series (A,B,C,D,E,Z)

```
\init@series@par
```

`\newseries@par` is called by `\newseries`. However, this last command is called before `reledpar` is loaded. Thus, we need to initiate a specific series hook for `reledpar`.

```

930 \newcommand{\init@series@par}{%
931   \def\do##1{\newseries@par{##1}}%

```



```

932 \dolistloop{\@series}%
933 }%
934 \init@series@par%
935 %

```

V.4 Tools specific to \LaTeX 's classical footnotes

As users can use classical footnotes of \LaTeX (`\footnote`) in parallel texts, we must integrate the same tools to get correct number as for `reledmac`' footnotes (V.1.2 p. 54).

```

\footnote@reading36 \newcount\footnote@reading%
\footnote@typeset37 \newcounter{footnote@typeset}%
938 %

```

VI Pstart numbers dumping and restoration

While in `reledmac` the footnotes are inserted at the same time as the `\pstart... \pend` are read, in `reledpar` they are inserted when the `\Columns` or `\Pages` commands are called. Consequently, if we do nothing, the value of the `PstartL` and `PstartR` counters are not the same in the main text and in the notes. To solve this problem, we dump the values in two list (one by side) when processing `\pstart` and restore these at each `\pstart` when calling `\Columns` or `\Pages`. We also dump and restore the value of the booleans `\ifnumberpstart` and `\ifnumberline`.

So, first step, creating the lists. Here, "pc" means "public counters".

```

\list@pstartL@pc39 \list@create{\list@pstartL@pc}%
\list@pstartR@pc40 \list@create{\list@pstartR@pc}%
941 %

```

Two commands to dump current pstarts. We prefer two commands to one with argument indicating the side, because the commands are short, and so we save one test (or a `\csname` construction).

```

\dump@pstartL@pc42 \def\dump@pstartL@pc{%
\dump@pstartR@pc43 \xright@appenditem{\the\c@pstartL}\to\list@pstartL@pc%
944 \global\cslet{numberpstart@L\the\l@dnumpstartsL}{\ifnumberpstart}%
945 \global\cslet{numberline@L\the\l@dnumpstartsL}{\ifnumberline}%
946 }%
947
948 \def\dump@pstartR@pc{%
949 \xright@appenditem{\the\c@pstartR}\to\list@pstartR@pc%
950 \global\cslet{numberpstart@R\the\l@dnumpstartsR}{\ifnumberpstart}%
951 \global\cslet{numberline@R\the\l@dnumpstartsR}{\ifnumberline}%
952 }%
953
954 %

```


`\restore@pstartL@pc` And so, the commands to restore them.

```
\restore@pstartR@pc
955 \def\restore@pstartL@pc{%
956   \ifx\list@pstartL@pc\empty\else%
957     \gl@p\list@pstartL@pc\to\@temp%
958     \global\c@pstartL=\@temp%
959   \fi%
960 }%
961 \def\restore@pstartR@pc{%
962   \ifx\list@pstartR@pc\empty\else%
963     \gl@p\list@pstartR@pc\to\@temp%
964     \global\c@pstartR=\@temp%
965   \fi%
966 }%
967 %
```

VII Parallel environments

The initial set up for parallel processing is deceptively simple.
pairs pages

`chapterinpages` The pairs environment is for parallel columns and the pages environment for parallel pages.

```
968 \newenvironment{pairs}{%}
969   \l@dpairingtrue
970   \l@dpagingfalse
971   \initnumbering@quote
972   \save@familiarfootnote@number%
973   \if@ledgroup%
974     \get@familiarfootnote@number%
975   \fi%
976   \save@section@number%
977   \at@begin@pairs%
978 }{%
979   \l@dpairingfalse
980 }
981
982 %
```

`\AtBeginPairs` The `\AtBeginPairs` macro just define a `\at@begin@pairs` macro, called at the beginning of each pairs environments.

```
983 \newcommand{\AtBeginPairs}[1]{\gdef\at@begin@pairs{#1}}%
984 \def\at@begin@pairs{}%
985
986 %
```


The `pages` environment additionally sets the ‘column’ widths to the `\textwidth` (as known at the time the package is called). In this environment, there are two text in parallel on 2 pages.

```

987 \newenvironment{pages}{%
988   \l@dpairingtrue
989   \l@dpagingtrue
990   \initnumbering@quote
991   \save@familiarfootnote@number%
992   \if@ledgroup%
993     \get@familiarfootnote@number%
994   \fi%
995   \save@section@number%
996   \Lcolwidth=\textwidth%
997   \Rcolwidth=\textwidth%
998 }{%
999   \l@dpairingfalse
1000   \l@dpagingfalse
1001   \global\Lcolwidth@pages=\Lcolwidth%Does not use \setlength, in case of
    calc package redefiniton (cf. https://github.com/latex3/latex2e/issues/58)
1002   \global\Rcolwidth@pages=\Rcolwidth%
1003 }
1004
1005 %

```

Leftside Within the `pairs` and `pages` environments the left and right hand texts are within `Leftside` and `Rightside` environments, respectively. The `Leftside` environment is simple, indicating that right text is not within its purview and using some particular macros.

```

1006 \newenvironment{Leftside}{%
1007   \expandafter\ifvoid\csname l@dLcolrawbox1\endcsname\else%
1008     \led@err@Leftside@PreviousNotPrinted%
1009   \fi%
1010   \ledRcolfalse
1011   \setcounter{pstartL}{1}
1012   \let\pstart\pstartL
1013   \let\thepstart\thepstartL
1014   \let\pend\pendL
1015   \let\memorydump\memorydumpL
1016   \Leftsidehook
1017   \let\old@startstanza\@startstanza%
1018   \def\@startstanza[##1][##2]{\global\instanzaLtrue\old@startstanza
    [##1][##2]}%
1019 }{
1020   \expandafter\ifvoid\csname l@dLcolrawbox1\endcsname%
1021     \led@error@missing@numbering{Leftside}%
1022   \fi%
1023   \Leftsidehookend}
1024 %

```


`\Leftsidehook` Hooks into the start and end of the Leftside and Rightside environments. These are initially empty.

`\Leftsidehookend`

`\Rightsidehook`

`\Rightsidehookend`

```

1025 \newcommand*{\Leftsidehook}{}
1026 \newcommand*{\Leftsidehookend}{}
1027 \newcommand*{\Rightsidehook}{}
1028 \newcommand*{\Rightsidehookend}{}
1029
1030 %

```

`\Rightpagehook` Hook at the start of Left/Right page, initially empty.

`\Leftpagehook`

```

1031 \newcommand*{\Rightpagehook}{}%
1032 \newcommand*{\Leftpagehook}{}%
1033 %

```

Rightside The Rightside environment is only slightly more complicated than the Leftside. Apart from indicating that right text is being provided it ensures that the right right text code will be used.

```

1034 \newenvironment{Rightside}{%
1035   \expandafter\ifvoid\csname l@dRcolrawbox1\endcsname\else%
1036   \led@err@Rightside@PreviousNotPrinted%
1037   \fi%
1038   \ledRcoltrue
1039   \let\beginnumbering\beginnumberingR
1040   \let\endnumbering\endnumberingR
1041   \let\pausenumbering\pausenumberingR
1042   \let\resumenumbering\resumenumberingR
1043   \let\memorydump\memorydumpR
1044   \let\thepstart\thepstartR
1045   \let\pstart\pstartR
1046   \let\pend\pendR
1047   \let\ledpb\ledpbR
1048   \let\lednopb\lednopbR
1049   \let\lineation\lineationR
1050   \Rightsidehook
1051   \let\old@startstanza\@startstanza%
1052   \def\@startstanza[##1][##2]{\global\instanzaRtrue\old@startstanza
1053   [##1][##2]}%
1054   \ledRcolfalse
1055   \expandafter\ifvoid\csname l@dRcolrawbox1\endcsname%
1056   \led@error@missing@numbering{Rightside}%
1057   \fi%
1058   \Rightsidehookend
1059 }
1060
1061 %

```


VIII Paragraph decomposition and reassembly

In order to be able to count the lines of text and affix line numbers, we add an extra stage of processing for each paragraph. We send the paragraph into a box register, rather than straight onto the vertical list, and when the paragraph ends we slice the paragraph into its component lines; to each line we add any notes or line numbers, add a command to write to the line-list, and then at last send the line to the vertical list. This section contains all the code for this processing.

VIII.1 Boxes, counters, `\pstart` and `\pend`

`\num@linesR` Here are numbers and flags that are used internally in the course of the paragraph decomposition.
`\one@lineR`
`\par@lineR`

When we first form the paragraph, it goes into a box register, `\l@dLcolrawbox` or `\l@dRcolrawbox` for right text, instead of onto the current vertical list. The `\ifnumberedpar@` flag will be true while a paragraph is being processed in that way. `\num@lines(R)` will store the number of lines in the paragraph when it is complete. When we chop it up into lines, each line in turn goes into the `\one@line` or `\one@lineR` register, and `\par@line(R)` will be the number of that line within the paragraph.

```
1062 \newcount\num@linesR
1063 \newbox\one@lineR
1064 \newcount\par@lineR
1065 %
```

`\pstartL` `\pstart` starts the paragraph by clearing the `\inserts@list` list and other relevant variables, and then arranges for the subsequent text to go into the appropriate box.
`\pstartR` `\pstart` needs to appear at the start of every paragraph that is to be numbered.

Beware: everything that occurs between `\pstart` and `\pend` is happening within a group; definitions must be global if you want them to survive past the end of the paragraph.

We have to have specific left and right `\pstart` when parallel processing; among other things because of potential changes in the linewidth.

```
1066
1067 \newcounter{pstartL}
1068 \renewcommand{\thepstartL}{\bfseries\@arabic\c@pstartL}. }
1069 \newcounter{pstartR}
1070 \renewcommand{\thepstartR}{\bfseries\@arabic\c@pstartR}. }
1071
1072 \newcommand*{\pstartL}[2][1,2,usedefault]{%
1073   \if@nobreak%
1074     \let\@oldnobreak\@nobreaktrue%
1075   \else%
1076     \let\@oldnobreak\@nobreakfalse%
1077   \fi%
1078   \@nobreaktrue%
1079   \ifluatex%
```



```

1080 \xdef\l@luatexttextdir@L{\the\textdir}%
1081 \xdef\l@luatexpardir@L{\the\pardir}%
1082 \xdef\l@luatexbodydir@L{\the\bodydir}%
1083 \fi%
1084 \ifnumbering \else%
1085 \led@err@PstartNotNumbered%
1086 \beginnumbering%
1087 \fi%
1088 \ifnumberedpar@%
1089 \led@err@PstartInPstart%
1090 \pend%
1091 \fi%
1092 %

```

If this is the first `\pstart` in a numbered section, clear any inserts and set `\ifpstart@rtedL` to FALSE.

```

1093 \ifpstart@rtedL\else%
1094 \list@clear{\inserts@list}%
1095 \global\let\next@insert=\empty%
1096 \global\pstart@rtedLtrue%
1097 \fi%
1098 \begingroup\everypar{}%
1099 %

```

When parallel processing we check that we have not exceeded the maximum number of chunks. In any event we grab a box for the forthcoming text.

```

1100 \global\advance\l@dnumpstartsL \@ne%
1101 \global\advance\pstarts@read@L \@ne%
1102 \ifnum\l@dnumpstartsL>\l@dc@maxchunks%
1103 \led@err@TooManyPstarts%
1104 \global\l@dnumpstartsL=\l@dc@maxchunks%
1105 \fi%
1106 \global\setnamebox{\l@dLcolrawbox\the\l@dnumpstartsL}=\vbox\bgroup%
1107 %

```

We set all the usual interline penalties to zero; this ensures that there will be no large interline penalties to prevent us from slicing the paragraph into pieces. These penalties revert to the values that you set when the group for the `\vbox` ends.

```

1108 \l@dzeropenalties%
1109 \ifboolexpr{%
1110   bool{autopar}%
1111   and bool{by@autopar}%
1112 }%
1113 {}%
1114 {}%
1115 \ifnumberpstart%
1116 \ifsidepstartnum%
1117 \else%
1118 \thepstartL%

```



```

1119 \fi%
1120 \fi%
1121 }%m
1122 \@at@start@every@pstart%
1123 \hsize=\Lcolwidth%
1124 \numberedpar@true%
1125 \iflabelpstart%
1126 \protected@edef\currentlabel{\p@pstartL\thepstartL}%
1127 \fi%
1128 %

```

Dump the optional arguments

```

1129 \providetoggle{before@pstartL@the\l@dnumpstartsL @par}%
1130 \ifboolexpr{%
1131   test {\ifstrempy{#1}}%
1132   and test {\ifstrempy{#2}}%
1133 }%
1134 {%
1135   \ifat@every@pstart@star%
1136   \global\togglefalse{before@pstartL@the\l@dnumpstartsL @par}%
1137   \else%
1138   \global\toggletrue{before@pstartL@the\l@dnumpstartsL @par}%
1139   \fi%
1140   \csgdef{before@pstartL@the\l@dnumpstartsL}{\at@every@pstart}%
1141 }%
1142 {%
1143   \ifstrempy{#1}{}%
1144   \global\toggletrue{before@pstartL@the\l@dnumpstartsL @par}%
1145   \csgdef{before@pstartL@the\l@dnumpstartsL}{\noindent#1}%
1146   }%
1147   \ifstrempy{#2}{}%
1148   {%
1149     \csgdef{before@pstartL@the\l@dnumpstartsL}{#2}%
1150     \global\togglefalse{before@pstartL@the\l@dnumpstartsL @par}%
1151   }%
1152 }%
1153 \at@every@pstart@call%
1154 %

```

Let \by@autopar to FALSE.

```

1155 \global\by@autoparfalse%
1156 %

```

Gobble following space (automatically done if there is no optional argument)

```

1157 \ignorespaces%
1158 }
1159 %

```

The same for right side.


```

1160 \newcommandx*{\pstartR}[2][1,2,usedefault]{%
1161   \if@nobreak%
1162     \let\@oldnobreak\@nobreaktrue%
1163   \else%
1164     \let\@oldnobreak\@nobreakfalse%
1165   \fi%
1166   \@nobreaktrue%
1167   \ifluatex%
1168     \xdef\l@luatextextdir@R{\the\textdir}%
1169     \xdef\l@luatexpardir@R{\the\pardir}%
1170     \xdef\l@luatexbodydir@R{\the\bodydir}%
1171   \fi%
1172   \ifnumberingR \else%
1173     \led@err@PstartNotNumbered%
1174     \beginnumberingR%
1175   \fi%
1176   \ifnumberedpar@%
1177     \led@err@PstartInPstart%
1178     \pendR%
1179   \fi%
1180   \ifpst@rtedR\else%
1181     \list@clear{\inserts@listR}%
1182     \global\let\next@insertR=\empty%
1183     \global\pst@rtedRtrue%
1184   \fi%
1185   \begingroup\everypar{}%
1186   \global\advance\l@dnumpstartsR \@ne%
1187   \ifnum\l@dnumpstartsR>\l@dc@maxchunks%
1188     \led@err@TooManyPstarts%
1189     \global\l@dnumpstartsR=\l@dc@maxchunks%
1190   \fi%
1191   \global\setnamebox{\l@dRcolrawbox\the\l@dnumpstartsR}=\vbox\bgroup%
1192   \l@dzeropenalties%
1193   \ifboolexpr{%
1194     bool{autopar}%
1195     and bool{by@autopar}%
1196   }%
1197   {}%
1198   {%
1199     \ifnumberpstart%
1200       \ifsidepstartnum\else%
1201         \thepstartR%
1202       \fi%
1203     \fi%
1204   }%
1205   \@at@start@every@pstart%
1206   \hsize=\Rcolwidth%
1207   \numberedpar@true%
1208   \iflabelpstart%
1209     \protected@edef\@currentlabel{\p@pstartR\thepstartR}%

```



```

1210 \fi%
1211 \providetoggle{before@pstartR@the\l@dumpstartsR @par}%
1212 \ifboolexpr{%
1213   test {\ifstrempy{#1}}%
1214   and test {\ifstrempy{#2}}%
1215 }%
1216 {%
1217   \ifat@every@pstart@star@%
1218   \global\togglefalse{before@pstartR@the\l@dumpstartsR @par}%
1219   \else%
1220   \global\toggletrue{before@pstartR@the\l@dumpstartsR @par}%
1221   \fi%
1222   \csgdef{before@pstartR@the\l@dumpstartsR}{\at@every@pstart}%
1223 }%
1224 {%
1225   \ifstrempy{#1}{}%
1226   \global\toggletrue{before@pstartR@the\l@dumpstartsR @par}%
1227   \csgdef{before@pstartR@the\l@dumpstartsR}{\noindent#1}%
1228 }%
1229   \ifstrempy{#2}{}%
1230   {%
1231     \csgdef{before@pstartR@the\l@dumpstartsR}{#2}%
1232     \global\togglefalse{before@pstartR@the\l@dumpstartsR @par}%
1233   }%
1234 }%
1235 \at@every@pstart@call%
1236 \global\by@autoparfalse%
1237 \ignorespaces%
1238 }
1239 %

```

\pendL \pend must be used to end a numbered paragraph. Again we need a version that knows about left parallel texts.

```

1240 \newcommandx*{\pendL}[2][1,2,usedefault]{%
1241   \ifnumbering \else%
1242     \led@err@PendNotNumbered%
1243   \fi%
1244   \ifnumberedpar@ \else%
1245     \led@err@PendNoPstart%
1246   \fi%
1247 %

```

We immediately call \endgraf to end the paragraph; this ensures that there will be no large interline penalties to prevent us from slicing the paragraph into pieces.

```

1248 \at@end@every@pend%
1249 \endgraf\global\num@lines=\prevgraf\egroup%
1250 \global\par@line=0%
1251 \get@firsthalf@antilabe@wd%
1252 %

```


End the group that was begun in the `\pstart`.

```

1253 \endgroup%
1254 \ignorespaces%
1255 \@oldnobreak%
1256 \dump@pstartL@pc%
1257 \ifnumberpstart%
1258   \addtocounter{pstartL}{1}%
1259   \ifcontinuousnumberingwithcolumns%
1260     \addtocounter{pstart}{1}%
1261   \fi%
1262 \fi
1263 \parledgroup@beforenotes@save{L}%
1264 %

```

Dump content of the optional argument.

```

1265 \providetoggle{after@pendL@the\l@dnumpstartsL @par}%
1266 \ifboolexpr{%
1267   test {\ifstrempy{#1}}%
1268   and test {\ifstrempy{#2}}%
1269 }%
1270 {%
1271   \ifat@every@pend@star%
1272   \global\togglefalse{after@pendL@the\l@dnumpstartsL @par}%
1273   \else%
1274     \global\toggletrue{after@pendL@the\l@dnumpstartsL @par}%
1275   \fi%
1276   \csgdef{after@pendL@the\l@dnumpstartsL}{\at@every@pend}%
1277 }%
1278 {%
1279   \ifstrempy{#1}{}%
1280     \global\toggletrue{after@pendL@the\l@dnumpstartsL @par}%
1281     \csgdef{after@pendL@the\l@dnumpstartsL}{\noindent#1}%
1282   }%
1283   \ifstrempy{#2}{}%
1284   {%
1285     \csgdef{after@pendL@the\l@dnumpstartsL}{#2}%
1286     \global\togglefalse{after@pendL@the\l@dnumpstartsL @par}%
1287   }%
1288 }%
1289 }%
1290 %

```

`\pendR` The version of `\pend` needed for right texts.

```

1291 \newcommandx*{\pendR}[2][1,2,usedefault]{%
1292   \ifnumberingR \else%
1293     \led@err@PendNotNumbered%
1294   \fi%
1295   \ifnumberedpar@ \else%

```



```

1296 \led@err@PendNoPstart%
1297 \fi%
1298 \@at@end@every@pend%
1299 \endgraf\global\num@linesR=\prevgraf\egroup%
1300 \global\par@lineR=0%
1301 \get@firsthalf@antilabe@wd%
1302 \endgroup%
1303 \ignorespaces%
1304 \@oldnobreak%
1305 \dump@pstartR@pc%
1306 \ifnumberpstart%
1307 \addtocounter{pstartR}{1}%
1308 \fi%
1309 \parledgroup@beforenotes@save{R}%
1310 \providetoggle{after@pendR@the\l@dnumpstartsR @par}%
1311 \ifboolexpr{%
1312   test {\ifstrempy{#1}}%
1313   and test {\ifstrempy{#2}}%
1314 }%
1315 {%
1316   \ifat@every@pend@star%
1317   \global\togglefalse{after@pendR@the\l@dnumpstartsR @par}%
1318   \else%
1319   \global\toggletrue{after@pendR@the\l@dnumpstartsR @par}%
1320   \fi%
1321   \csgdef{after@pendR@the\l@dnumpstartsR}{\at@every@pend}}%
1322 {%
1323   \ifstrempy{#1}{}%
1324   \csgdef{after@pendR@the\l@dnumpstartsR}{\noindent#1}%
1325   \global\toggletrue{after@pendR@the\l@dnumpstartsR @par}%
1326   }%
1327   \ifstrempy{#2}{}%
1328   \csgdef{after@pendR@the\l@dnumpstartsR}{#2}%
1329   \global\togglefalse{after@pendR@the\l@dnumpstartsR @par}%
1330   }%
1331 }%
1332 }
1333
1334 %

```

\AtEveryPstartCall The \AtEveryPstartCall argument is called when the \pstartL or \pstartR is called. That is different of \AtEveryPstart the argument of which is called when the \pstarts are printed.

```

1335 \newcommand{\AtEveryPstartCall}[1]{\gdef\at@every@pstart@call{#1}}%
1336 \gdef\at@every@pstart@call{}%
1337 %

```

\ifprint@last@after@pendL Two booleans set to true, when the time is to print the last optional argument of a \pend.
\ifprint@last@after@pendR


```

1338 \newif\ifprint@last@after@pendL%
1339 \newif\ifprint@last@after@pendR%
1340 %

```

VIII.2 Processing one line

For parallel texts we have to be able to process left and right lines independently. For sequential text we happily use the original `\do@line`. Otherwise ...

`\l@dleftbox` A line of left text will be put in the box `\l@dleftbox`, and analogously for a line of right text.
`\l@drightbox`

```

1341 \newbox\l@dleftbox
1342 \newbox\l@drightbox
1343
1344 %

```

`\countLline` We need to know the number of lines processed.

```

\countRline
1345 \newcount\countLline
1346 \countLline \z@
1347 \newcount\countRline
1348 \countRline \z@
1349
1350 %

```

`\@donereallinesL` We need to know the number of ‘real’ lines output (i.e., those that have been input by the user), and the total lines output (which includes any blank lines output for synchronisation).
`\@donetotallinesL`
`\@donereallinesR`
`\@donetotallinesR`

```

1351 \newcount\@donereallinesL
1352 \newcount\@donetotallinesL
1353 \newcount\@donereallinesR
1354 \newcount\@donetotallinesR
1355
1356 %

```

`\do@lineL` The `\do@lineL` macro is called to do all the processing for a single line of left text.

```

1357 \newcommand*\do@lineL{%
1358   \letcs{\ifnumberpstart}{numberpstart@L\the\l@dpscl}%
1359   \letcs{\ifnumberline}{numberline@L\the\l@dpscl}%
1360   \advance\countLline \one%
1361   \ifvbox\namebox{\l@dLcolrawbox\the\l@dpscl}%
1362     {\vbadness=10000%
1363      \splittopskip=\z@%
1364      \do@lineLhook%
1365      \l@demptyd@ta%

```



```

1366 \global\setbox\one@line=\vsplit\namebox{l@dLcolrawbox\the\l@dpscL}%
1367 to\baselineskip}%
1368 \IfStrEq{\splitfirstmarks\parledgroup@}{begin}{\
parledgroup@notes@startL}{}%
1369 \unvbox\one@line \global\setbox\one@line=\lastbox%
1370 \@writepageofparL%
1371 \getline@numL%
1372 \ifnum\@lock>\@ne%
1373 \inserthangingsymboltrue%
1374 \else%
1375 \inserthangingsymbolfalse%
1376 \fi%
1377 \setbox\l@dleftbox%
1378 \hb@xt@ \Lcolwidth{%
1379 \ifl@dhiddenumber%
1380 \global\l@dhiddenumberfalse%
1381 \f@x@l@cks%
1382 \else%
1383 \affixline@num%
1384 \fi%
1385 \xifinlist{\the\pstarts@typeset@L}{\eled@sections@@}%
1386 {\unless\ifshiftedpstarts%
1387 \add@apparatusL%
1388 \fi%
1389 }%
1390 {\print@lineL}%
1391 }%
1392 \add@penaltiesL%
1393 \global\advance\@donereallinesL\@ne%
1394 \global\advance\@donetotallinesL\@ne%
1395 \else%
1396 \iflinenumberLevenifblank
1397 \setbox\l@dleftbox \hb@xt@ \Lcolwidth{%
1398 \new@lineL%
1399 \l@emptyd@ta%
1400 \getline@numL%
1401 \affixline@num%
1402 \l@dld@ta%
1403 \hspace*{\Lcolwidth}%
1404 \ledrlfill\l@drd@ta%
1405 }%
1406 \else%
1407 \setbox\l@dleftbox \hb@xt@ \Lcolwidth{%
1408 \ifcontinuousnumberingwithcolumns%
1409 \new@lineL%
1410 \getline@numL%
1411 \fi%
1412 \hspace*{\Lcolwidth}%
1413 }%
1414 \fi%

```



```

1415 \global\advance\@donetotallinesL\@ne%
1416 \fi%
1417 }%
1418
1419
1420 %

```

`\print@lineL` `\print@lineL` is for lines without a sectioning command. See `reledmac` definition of `\print@line` for handbook.

```

1421 \def\print@lineL{%
1422   \affixpstart@numL%
1423   \l@dld@ta%
1424   \add@apparatusL%
1425   \l@dlsn@te%
1426   \do@insidelineLhook%
1427   \csuse{insidethis@\the\absline@num @\the\section@num}%
1428   \global\csundef{insidethis@\the\absline@num @\the\section@num}%
1429   \hb@xt@ \Lcolwidth{\ledllfill\hb@xt@ \wd\one@line{%
1430     \ifluatex%
1431       \texdir\l@luatextextdir@L%
1432     \fi%
1433     \new@lineL%
1434     \inserthangingsymbolL%
1435     \l@dunhbox@line{\one@line}}\ledrlfill\l@drd@ta%
1436   \l@drsn@te}}%
1437
1438 %

```

`\print@eledsectionL` `\print@eledsectionL` is for line with macro code.

```

1439 \def\print@eledsectionL{%
1440   \disable@edindex%
1441   \addtocounter{pstartL}{-1}%
1442   \ifdefstring{\@eledsectnotoc}{L}{\ledsectnotoc}{%
1443     \ifdefstring{\@eledsectmark}{L}{\ledsectnomark}%
1444     \numdef{\temp@}{\pstarts@typeset@L-1}%
1445     \xifinlist{\temp@}{\eled@sections@@}{\@nbreaktrue}{\@nbreakfalse}%
1446     \@eled@sectioningtrue%
1447   \bgroup%
1448     \ifluatex%
1449       \texdir\l@luatextextdir@L%
1450       \pardir\l@luatexpardir@L%
1451       \bodydir\l@luatexbodydir@L%
1452       \ifdefstring{\l@luatextextdir@L}{TRT}{\@RTLtrue}{%
1453     \fi%
1454     \csuse{eled@sectioning@\the\pstarts@typeset@L}%
1455   \egroup%
1456   \@eled@sectioningfalse%
1457   \global\csundef{eled@sectioning@\the\pstarts@typeset@L}%

```



```

1458 \if@RTL%
1459 \hspace{-3\paperwidth}%
1460 {\hbox{\l@dunhbox@line{\one@line}} \new@line}%
1461 \else%
1462 \hspace{3\paperwidth}%
1463 {\new@line \hbox{\l@dunhbox@line{\one@line}}}%
1464 \fi%
1465 \vskip\eledsection@correcting@skip%
1466 \restore@edindex%
1467 }
1468
1469 %

```

\add@apparatusL The `\add@apparatusL` macro adds apparatus for the left lines, apparatus is both footnotes and sidenotes.

```

1470 \newcommand{\add@apparatusL}{%
1471 \if@firstlineofpage%
1472 \set@Xtxtbeforenotes%
1473 \set@txtbeforenotesX%
1474 \global\@firstlineofpagefalse%
1475 \fi%
1476 \ifdefstring{\ms@data@position}{msdata-regular}{%
1477 \insert@msdata%
1478 \add@inserts%
1479 \add@Xgroupbyline%
1480 }{%
1481 \add@inserts%
1482 \add@Xgroupbyline%
1483 \insert@msdata%
1484 }%
1485 \affixside@note%
1486 }%
1487 %

```

\dolineLhook These high-level commands just redefine the low-level commands. They have to be used by user, without `\makeatletter`.

\dolineRhook

\doinsidelineLhook

\doinsidelineRhook

```

1488 \newcommand*{\dolineLhook}[1]{\gdef\dolineLhook{#1}}%
1489 \newcommand*{\dolineRhook}[1]{\gdef\dolineRhook{#1}}%
1490 \newcommand*{\doinsidelineLhook}[1]{\gdef\doinsidelineLhook{#1}}%
1491 \newcommand*{\doinsidelineRhook}[1]{\gdef\doinsidelineRhook{#1}}%
1492
1493 %

```

\do@lineLhook Hooks, initially empty, into the respective `\do@line(L/R)` macros.

\do@lineRhook

\do@insidelineLhook

\do@insidelineRhook

```

1494 \newcommand*{\do@lineLhook}{}
1495 \newcommand*{\do@lineRhook}{}

```



```

1496 \newcommand*\do@insidelineLhook{}
1497 \newcommand*\do@insidelineRhook{}
1498
1499 %

```

\do@lineR The `\do@lineR` macro is called to do all the processing for a single line of right text.

```

1500 \newcommand*\do@lineR{%
1501   \let\linenumrepL\linenumrep%
1502   \let\sublinenumrepL\sublinenumrep%
1503   \let\linenumrep\linenumrepR%
1504   \let\sublinenumrep\sublinenumrepR%
1505   \letcs{\ifnumberpstart}{numberpstart@R\the\l@dpscr}%
1506   \letcs{\ifnumberline}{numberline@R\the\l@dpscr}%
1507   \ledRcol@true%
1508   \advance\countRline \@ne%
1509   \ifvbox\namebox{l@dRcolrawbox\the\l@dpscr}%
1510     {\vbadness=10000%
1511      \splittopskip=\z@%
1512      \do@lineRhook%
1513      \l@emptyd@ta%
1514      \global\setbox\one@lineR=\vsplit\namebox{l@dRcolrawbox\the\l@dpscr}%
1515        to\baselineskip}%
1516   \IfStrEq{\splitfirstmarks\parledgroup@}{begin}{\
parledgroup@notes@startR}{}%
1517   \unvbox\one@lineR \global\setbox\one@lineR=\lastbox%
1518   \@writepageofparR%
1519   \getline@numR%
1520   \ifnum\@lockR>\@ne%
1521     \inserthangingsymbolRtrue%
1522   \else%
1523     \inserthangingsymbolRfalse%
1524   \fi%
1525   \setbox\l@dtrightbox%
1526   \hb@xt@ \Rcolwidth{%
1527     \ifl@dhiddenumber%
1528       \global\l@dhiddenumberfalse%
1529       \f@x@l@cksR%
1530     \else%
1531       \affixline@numR%
1532     \fi%
1533     \xifinlist{\the\l@dpscr}{\eled@sectionsR@}%
1534     {\unless\ifshiftedpstarts%
1535       \add@apparatusR%
1536     \fi%
1537   }%
1538   {\print@lineR}%
1539 }%
1540 \add@penaltiesR%
1541 \global\advance\@donereallinesR\@ne%

```



```

1542 \global\advance\@donetotallinesR\@ne%
1543 \else%
1544 \iflinenumberRevenifblank%
1545 \setbox\l@drightbox \hb@xt@ \Rcolwidth{%
1546 \new@lineR%
1547 \l@emptyd@ta%
1548 \getline@numR%
1549 \affixline@numR%
1550 \l@dld@ta%
1551 \hspace*{\Rcolwidth}%
1552 \ledrlfill\l@drd@ta%
1553 }%
1554 \else%
1555 \setbox\l@drightbox \hb@xt@ \Rcolwidth{%
1556 \ifcontinuousnumberingwithcolumns%
1557 \new@lineR%
1558 \getline@numR%
1559 \fi%
1560 \hspace*{\Rcolwidth}%
1561 }%
1562 \fi%
1563 \global\advance\@donetotallinesR\@ne%
1564 \fi%
1565 \ledRcol@false%
1566 \let\linenumrep\linenumrepL%
1567 \let\sublinenumrep\sublinenumrepL%
1568 }
1569
1570
1571 %

```

`\print@lineR`
`\print@eledsectionR`
`\add@apparatusR`

The `\add@apparatusR` macro adds apparatus for the right lines, apparatus is both footnotes and sidenotes.

```

1572 \newcommand{\add@apparatusR}{%
1573 \if@firstlineofpageR%
1574 \set@Xtxtbeforenotes%
1575 \set@txtbeforenotesX%
1576 \global\@firstlineofpageRfalse%
1577 \fi%
1578 \ifdefstring{\ms@data@position}{msdata-regular}{%
1579 \insert@msdata%
1580 \add@insertsR%
1581 \add@Xgroupbyline%
1582 }{%
1583 \add@insertsR%
1584 \add@Xgroupbyline%
1585 \insert@msdata%

```



```

1586 }%
1587 \affixside@noteR%
1588 }%
1589 %

```

VIII.3 Line and page number computation

\getline@numR The `\getline@numR` macro determines the page and line numbers for the right text line we are about to send to the vertical list. The `\getline@numL` is the same for left text.

```

1590 \newcommand*{\getline@numR}{%
1591   \global\advance\absline@numR \@ne
1592   \do@actionsR
1593   \do@ballastR
1594   \ifledgroupnotesR\else
1595     \ifnumberline
1596       \ifsublines@R
1597         \ifnum\sub@lockR<\tw@
1598           \global\advance\subline@numR \@ne
1599         \fi
1600       \else
1601         \ifnum\@lockR<\tw@
1602           \global\advance\line@numR \@ne
1603           \global\subline@numR \z@
1604         \fi
1605       \fi
1606     \fi
1607   \fi
1608 }
1609 \newcommand*{\getline@numL}{%
1610   \global\advance\absline@num \@ne
1611   \do@actions
1612   \do@ballast
1613   \ifledgroupnotesL\else
1614     \ifnumberline
1615       \ifsublines@
1616         \ifnum\sub@lock<\tw@
1617           \global\advance\subline@num \@ne
1618         \fi
1619       \else
1620         \ifnum\@lock<\tw@
1621           \global\advance\line@num \@ne
1622           \global\subline@num \z@
1623         \fi
1624       \fi
1625     \fi
1626   \fi
1627 }
1628

```



```
1629
1630 %
```

`\do@ballastR` The real work in the line macros above is done in `\do@actions`, but before we plunge into that, let us get `\do@ballastR` out of the way.

```
1631 \newcommand*{\do@ballastR}{\global\ballast@count=\z@
1632 \begingroup
1633 \advance\absline@numR \@ne
1634 \ifnum\next@actionlineR=\absline@numR
1635 \ifnum\next@actionR>-1001
1636 \global\advance\ballast@count by -\c@ballast
1637 \fi
1638 \fi
1639 \endgroup}
1640 %
```

`\l@dskipversenumberR` The `\do@actionsR` macro looks at the list of actions to take at particular right text absolute line numbers, and does everything that is specified for the current line.

`\do@actionsR` It may call itself recursively and we use tail recursion, via `\do@actions@nextR` for this.

```
1641
1642 \newif\ifl@dskipversenumberR
1643 \newcommand*{\do@actions@fixedcodeR}{%
1644 \ifcase\@l@dttempcnta%
1645 \or% % 1001 = starting sublineation
1646 \global\sublines@Rtrue
1647 \or% % 1002 = ending sublineation
1648 \global\sublines@Rfalse
1649 \or% % 1003 = starting locking number
1650 \global\@lockR=\@ne
1651 \or% % 1004 = ending locking number
1652 \ifnum\@lockR=\tw@
1653 \global\@lockR=\thr@@
1654 \else
1655 \global\@lockR=\z@
1656 \fi
1657 \or% % 1005 = starting locking subnumber
1658 \global\sub@lockR=\@ne
1659 \or% % 1006 = ending locking subnumber
1660 \ifnum\sub@lockR=\tw@
1661 \global\sub@lockR=\thr@@
1662 \else
1663 \global\sub@lockR=\z@
1664 \fi
1665 \or% % 1007 = skipping numbering
1666 \l@dskipnumbertrue
1667 \or% % 1008 = skipping numbering in stanza
1668 \l@dskipversenumberRtrue%
```



```

1669 \or% % 1009 = hiding number
1670 \l@dhiddenumbertrue%
1671 \or% % 1010 = inserting msdata
1672 \add@msdata%
1673 \else%
1674 \led@warn@BadAction
1675 \fi%
1676 }
1677
1678
1679 \newcommand*{\do@actionsR}{%
1680 \global\let\do@actions@nextR=\relax
1681 \@l@dttempcntb=\absline@numR
1682 \ifnum\@l@dttempcntb<\next@actionlineR\else
1683 \ifnum\next@actionR>-1001\relax
1684 \ifboolexpr{%
1685 bool{resumenumberingR@start}%
1686 and test {\ifdimgreater{\pagedepth}{\z@}}%
1687 }%
1688 {}%
1689 {\@firstlineofpageRtrue}%
1690 \global\page@numR=\next@actionR
1691 \ifcsdef{reset@lineR\the\absline@numR @\the\section@numR}%
1692 {%
1693 \global\line@numR=\z@ \global\subline@numR=\z@%
1694 }%
1695 {}%
1696 \global\resumenumberingR@startfalse%
1697 \add@msdata@firstlineofpage%
1698 \else
1699 \ifnum\next@actionR<-4999\relax % 9/05 added relax here
1700 \@l@dttempcnta=-\next@actionR
1701 \advance\@l@dttempcnta by -5001\relax
1702 \ifsublines@R
1703 \global\subline@numR=\@l@dttempcnta
1704 \else
1705 \global\line@numR=\@l@dttempcnta
1706 \fi
1707 \else
1708 \@l@dttempcnta=-\next@actionR
1709 \advance\@l@dttempcnta by -1000\relax
1710 \do@actions@fixedcodeR
1711 \fi
1712 \fi
1713 \ifx\actionlines@listR\empty
1714 \gdef\next@actionlineR{1000000}%
1715 \else
1716 \glp\actionlines@listR\to\next@actionlineR
1717 \glp\actions@listR\to\next@actionR
1718 \global\let\do@actions@nextR=\do@actionsR

```



```

1719 \fi
1720 \fi
1721 \do@actions@nextR}
1722
1723 %

```

VIII.4 Line number printing

`\l@dcalcnm` `\affixline@numR` is the right text version of the `\affixline@num` macro.

```

\ch@cksub@l@ckR
\ch@ck@l@ckR
\fx@l@cksl
\affixline@numR
1724
1725 \newcommand*{\l@dcalcnm}[3]{%
1726 \ifnum #1 > #2\relax
1727 \l@dttempcnta = #1\relax
1728 \advance\l@dttempcnta by -#2\relax
1729 \divide\l@dttempcnta by #3\relax
1730 \multiply\l@dttempcnta by #3\relax
1731 \advance\l@dttempcnta by #2\relax
1732 \else
1733 \l@dttempcnta=#2\relax
1734 \fi}
1735
1736 \newcommand*{\ch@cksub@l@ckR}{%
1737 \ifcase\sub@lockR
1738 \or
1739 \ifnum\sublock@disp=\@ne
1740 \l@dttempcntb \z@ \l@dttempcnta \@ne
1741 \fi
1742 \or
1743 \ifnum\sublock@disp=\tw@
1744 \else
1745 \l@dttempcntb \z@ \l@dttempcnta \@ne
1746 \fi
1747 \or
1748 \ifnum\sublock@disp=\z@
1749 \l@dttempcntb \z@ \l@dttempcnta \@ne
1750 \fi
1751 \fi}
1752
1753 \newcommand*{\ch@ck@l@ckR}{%
1754 \ifcase\@lockR
1755 \or
1756 \ifnum\lock@disp=\@ne
1757 \l@dttempcntb \z@ \l@dttempcnta \@ne
1758 \fi
1759 \or
1760 \ifnum\lock@disp=\tw@
1761 \else
1762 \l@dttempcntb \z@ \l@dttempcnta \@ne

```



```

1763 \fi
1764 \or
1765 \ifnum\lock@disp=\z@
1766 \l@dttempcntb \z@ \l@dttempcnta \@ne
1767 \fi
1768 \fi}
1769
1770 \newcommand*{\f@x@l@cksR}{%
1771 \ifcase\@lockR
1772 \or
1773 \global\@lockR \tw@
1774 \or \or
1775 \global\@lockR \z@
1776 \fi
1777 \ifcase\sub@lockR
1778 \or
1779 \global\sub@lockR \tw@
1780 \or \or
1781 \global\sub@lockR \z@
1782 \fi}
1783
1784
1785 \let\linenumberlistR\empty%
1786 \newcommand*{\affixline@numR}{%
1787 \ifledgroupnotesR\else\ifnumberline
1788 \ifl@dskipnumber
1789 \global\l@dskipnumberfalse
1790 \else
1791 \ifsublines@R
1792 \l@dttempcntb=\subline@numR
1793 \l@dcalcnun{\subline@numR}{\c@firstsublinenumR}{\c@sublinenumincrementR
}%
1794 \ch@cksub@l@ckR
1795 \else
1796 \l@dttempcntb=\line@numR
1797 \ifx\linenumberlistR\empty%
1798 \l@dcalcnun{\line@numR}{\c@firstlinenumR}{\c@linenumincrementR}%
1799 \else
1800 \l@dttempcnta=\line@numR
1801 \edef\rem@inderR{\,\linenumberlistR,\number\line@numR,}%
1802 \edef\sc@n@list{\def\noexpand\sc@n@list
1803 ###1,\number\l@dttempcnta,###2|{\def\noexpand\rem@inderR{###2}}}%
1804 %
1805 \sc@n@list\expandafter\sc@n@list\rem@inderR|%
1806 \ifx\rem@inderR\empty\advance\l@dttempcnta\@ne\fi%
1807 \fi
1808 \ch@ck@l@ckR
1809 \fi
1810 \ifnum\l@dttempcnta=\l@dttempcntb
\ifl@dskipversenumberR\else

```



```

1811 \if@twocolumn
1812 \if@firstcolumn
1813 \gdef\l@dld@ta{\llap{\leftlinenumR}}}%
1814 \else
1815 \gdef\l@drd@ta{\rlap{\rightlinenumR}}}%
1816 \fi
1817 \else
1818 \ifboolexpr{bool {l@dprintingcolumns} and test {\ifnumgreater{\line@margin@columnsR}{\m@ne}}}%
1819 {\@l@tempcntb=\line@margin@columnsR}%
1820 {\@l@tempcntb=\line@marginR}%
1821 \ifnum\@l@tempcntb>\@ne
1822 \advance\@l@tempcntb by\page@numR
1823 \fi
1824 \ifboolexpr{%
1825 bool {l@dprintingcolumns}%
1826 and (%
1827 (test {\ifdefstring{\linenum@OnlyPages@ForColumnsR}{left}}}%
1828 and test {\ifnumodd{\page@numR}}}%
1829 )%
1830 or%
1831 (test {\ifdefstring{\linenum@OnlyPages@ForColumnsR}{right}}}%
1832 and not test {\ifnumodd{\page@numR}}}%
1833 )%
1834 )%
1835 }%
1836 {}%
1837 {%
1838 \ifodd\@l@tempcntb%
1839 \gdef\l@drd@ta{\rlap{\rightlinenumR}}}%
1840 \else%
1841 \gdef\l@dld@ta{\llap{\leftlinenumR}}}%
1842 \fi%
1843 }%
1844 \fi
1845 \fi
1846 \f@x@l@cksR
1847 \fi
1848 \fi
1849 \fi}
1850 %
1851 %

```

VIII.5 Pstart number printing in side

The printing of the pstart number is like in `reledmac`, with two differences :

- Some commands have versions suffixed by R or L.
- The `\affixpstart@num` and `\affixpstart@numR` commands are called in the

\Pages command. Consequently, the pstartL and pstartR counters must be reset at the beginning of this command.

```

\affixpstart@numL%
\affixpstart@numR% \newcommand*{\affixpstart@numL}{%
  \leftpstartnum% \ifsidepstartnum
\rightpstartnum% \if@twocolumn
  \if@firstcolumn
    \gdef\l@dld@ta{\llap{\leftpstartnumL}}}%
  \else
    \gdef\l@dld@ta{\llap{\rightpstartnumL}}}%
  \fi
  \else
    \ifbool{bool {l@dprintingcolumns} and test {\ifnumgreater{\
line@margin@columns}{\m@ne}}}%
    {\@l@tempcntb=\line@margin@columns}%
    {\@l@tempcntb=\line@margin}%
    \ifnum\@l@tempcntb>\@ne
      \advance\@l@tempcntb \page@num
    \fi
    \ifodd\@l@tempcntb
      \gdef\l@dld@ta{\rlap{\rightpstartnumL}}}%
    \else
      \gdef\l@dld@ta{\llap{\leftpstartnumL}}}%
    \fi
  \fi
\fi
}
\newcommand*{\affixpstart@numR}{%
  \ifsidepstartnum
\if@twocolumn
  \if@firstcolumn
    \gdef\l@dld@ta{\llap{\leftpstartnumR}}}%
  \else
    \gdef\l@dld@ta{\rlap{\rightpstartnumR}}}%
  \fi
  \else
    \ifbool{bool {l@dprintingcolumns} and test {\ifnumgreater{\
line@margin@columnsR}{\m@ne}}}%
    {\@l@tempcntb=\line@margin@columnsR}%
    {\@l@tempcntb=\line@marginR}%
    \ifnum\@l@tempcntb>\@ne
      \advance\@l@tempcntb \page@numR
    \fi
    \ifodd\@l@tempcntb
      \gdef\l@dld@ta{\rlap{\rightpstartnumR}}}%
    \else
      \gdef\l@dld@ta{\llap{\leftpstartnumR}}}%
    \fi
  \fi
}

```



```

1896 \fi
1897 \fi
1898 }
1899
1900 \newcommand*{\leftpstartnumL}{
1901 \ifpstartnum
1902 \thepstartL
1903 \kern\linenumsep\global\pstartnumfalse\fi
1904 }
1905 \newcommand*{\rightpstartnumL}{
1906 \ifpstartnum\kern\linenumsep
1907 \thepstartL
1908 \global\pstartnumfalse\fi
1909 }
1910 \newif\ifpstartnumR
1911 \pstartnumRtrue
1912 \newcommand*{\leftpstartnumR}{
1913 \ifpstartnumR
1914 \thepstartR
1915 \kern\linenumsep\global\pstartnumRfalse\fi
1916 }
1917 \newcommand*{\rightpstartnumR}{
1918 \ifpstartnumR\kern\linenumsep
1919 \thepstartR
1920 \global\pstartnumRfalse\fi
1921 }
1922 %

```

VIII.6 Add insertions to the vertical list

`\inserts@listR` `\inserts@listR` is the list macro that contains the inserts that we save up for one right text paragraph.

```

1923 \list@create{\inserts@listR}
1924 %

```

`\add@insertsR` The right text version.

`\add@inserts@nextR`

```

1925 \newcommand*{\add@insertsR}{%
1926 \global\let\add@inserts@nextR=\relax
1927 \ifx\inserts@listR\empty \else
1928 \ifx\next@insertR\empty
1929 \ifx\insertlines@listR\empty
1930 \global\noteschanged@true
1931 \gdef\next@insertR{100000}%
1932 \else
1933 \gl@p\insertlines@listR\to\next@insertR
1934 \fi
1935 \fi

```



```

1936 \ifnum\next@insertR=\absline@numR
1937 \gl@p\inserts@listR\to\@insertR
1938 \@insertR
1939 \global\let\@insertR=\undefined
1940 \global\let\next@insertR=\empty
1941 \global\let\add@inserts@nextR=\add@insertsR
1942 \fi
1943 \fi
1944 \add@inserts@nextR}
1945
1946 %

```

VIII.7 Penalties

`\add@penaltiesL` `\add@penaltiesR` `\add@penaltiesL` is the last macro used by `\do@lineL`. It adds up the club, widow, and interline penalties, and puts a single penalty of the appropriate size back into the paragraph; these penalties get removed by the `\vsplit` operation. `\displaywidowpenalty` and `\brokenpenalty` are not restored, since we have no easy way to find out where we should insert them.

In the code below, which is a virtual copy of the original `\add@penalties`, `\num@lines` is the number of lines in the whole paragraph, and `\par@line` is the line we are working on at the moment. The count `\@l@tempcnta` is used to calculate and accumulate the penalty; it is initially set to the value of `\ballast@count`, which has been worked out in `\do@ballast`. Finally, the penalty is checked to see that it does not go below -10000 .

```

\newcommand*{\add@penaltiesR}{\@l@tempcnta=\ballast@count
\ifnum\num@linesR>\@ne
\global\advance\par@lineR \@ne
\ifnum\par@lineR=\@ne
\advance\@l@tempcnta by \clubpenalty
\fi
\@l@tempcntb=\par@lineR \advance\@l@tempcntb \@ne
\ifnum\@l@tempcntb=num@linesR
\advance\@l@tempcnta by \widowpenalty
\fi
\ifnum\par@lineR<\num@linesR
\advance\@l@tempcnta by \interlinepenalty
\fi
\fi
\ifnum\@l@tempcnta=z@
\relax
\else
\ifnum\@l@tempcnta>-10000
\penalty\@l@tempcnta
\else
\penalty -10000
\fi
\fi}

```


This is for a single chunk. However, as we are probably dealing with several chunks at a time, the above is not really relevant. Peter Wilson thinks that it is likely with parallel text that there is no real need to add back any penalties; even if there was, they would have to match across the left and right lines. So, Peter Wilson ends up with the following.

```

1947 \newcommand*{\add@penaltiesL}{%
1948 \newcommand*{\add@penaltiesR}{%
1949
1950 %

```

VIII.8 Printing leftover notes

`\flush@notesR` The `\flush@notesR` macro is called after the entire right text has been sliced up and sent on to the vertical list.

```

1951 \newcommand*{\flush@notesR}{%
1952 \iftoggle{notfirstrun@jobname.\extensionchars\the\section@numR R}{%
1953 \xloop%
1954 \ifx\inserts@listR\empty \else%
1955 \gl@p\inserts@listR\to\@insertR%
1956 \@insertR%
1957 \global\let\@insertR=\undefined%
1958 \repeat%
1959 }{}%
1960 }%
1961
1962 %
1963 %

```

IX Footnotes

IX.1 Footnotes output specific to `\Pages`

`\print@Xnotes@forpages` The `\Xonlyside` and `\onlysideX` hooks for `\Pages` allow notes to be printed either in left or right pages only. The implementation of such features is delegated to `\print@Xnotes@forpages`, which replaces `\print@Xnotes` inside `\Pages`. Here is how we proceed⁶:

```

\restore@Xnotes@settings
\correct@Xfootins@box
\print@notesX@forpages
\restore@notesX@settings
\correct@footinsX@box

```

- If notes are to be printed on both sides, we just proceed the usual way: print the foot starts for the series, then the foot group.
- If notes are to be printed in the left side, we do these prints only for even pages ; if notes are to be printed in the right side, we do these prints only for odd pages.

⁶See <http://tex.stackexchange.com/a/230332/7712>.

- However, that is not enough. Because the problem does not only consists in printing notes in any particular page. It is also not to put aside room for notes in the pages where we do not want to print them. To take an example: if some note in the left side is too long by 160pt to be printed in full in the left page, we do not want to put aside 160pt a space for it in the following right page.
- To solve this problem, we change the magnification factor associated with notes before going to the next page. If we start a page where no notes are supposed to be printed, the magnification counter is set to 0. The dimension associated to footnote is set to `\maxdimen`, and so we can keep all the notes we want, without any break inside. We also set the note skip to 0pt. Before starting a new page where these notes are supposed to be printed, we reset these counter and skip to their default values. (About these counter, dimension and skip, read *The TeXbook* p. 122-125).
- In the output macro of the page where notes must NOT be printed, we store the content of the footnote box produced by TeX to a temporary box.
- After going to the next page, before typesetting any thing in this page, we put the content of this temporary box the footnote insert box.

The code to print critical notes, when processing `\Pages`, called in the output routine.

```
1964 \newcommand\print@Xnotes@forpages[1]{%
1965 %
```

First case: notes are for both sides. Just print the note start and the note group

```
1966 \ifcseempty{Xonlyside@#1}{%
1967 \csuse{#1footstart}{#1}%
1968 \csuse{#1footgroup}{#1}%
1969 }%
1970 %
```

Second case: notes are for one side only. First test if we are in a page where they must be printed.

```
1971 {%
1972 \ifboolexpr{%
1973 ((test {\ifcsstring{Xonlyside@#1}{L}} and not test{\ifnumodd{\c@page
1974 }})%
1975 or%
1976 (test {\ifcsstring{Xonlyside@#1}{R}} and test{\ifnumodd{\c@page}})%
1977 }%
1978 %
```

If we are in a page where notes must be printed, print the notes.

```
1978 {%
1979 \csuse{#1footstart}{#1}%
1980 \csuse{#1footgroup}{#1}%
1981 %
```


Then, set to not to keep room for notes in the next page. Also set to that, in the next page, notes are not to be split, using \maxdimen.

```

1982     \global\count\csuse{#1footins}=\z@%
1983     \global\skip\csuse{#1footins}=\z@%
1984     \global\dimen\csuse{#1footins}=\maxdimen%
1985 }%
1986 %

```

In case we are on a page where notes must NOT be printed. We reset the settings of the notes for one side.

```

1987 {%
1988     \restore@Xnotes@settings{#1}%
1989 }%
1990 %

```

End of \print@Xnotes@forpages.

```

1991 }%
1992 }%
1993 %

```

The macro which restore the note settings. #1 = series

```

1994 \newcommand{\restore@Xnotes@settings}[1]{%
1995     \unless\ifnocritical@
1996         \global\count\csuse{#1footins}=\csuse{default@#1footins}%
1997         \global\skip\csuse{#1footins}=\csuse{Xbeforenotes@#1}%
1998         \bgroup%
1999             \csuse{Xnotefontsize@#1}%
2000             \global\dimen\csuse{#1footins}=\csuse{Xmaxhnotes@#1}%
2001         \egroup%
2002         \global\setnamebox{#1footins@kept}=\box\namebox{#1footins}%
2003     \fi
2004 }%
2005 %

```

And now, the same for familiar footnotes.

```

2006 \newcommand\print@notesX@forpages[1]{%
2007     \ifcsemt{onlysideX@#1}{%
2008         \csuse{footstart#1}{#1}%
2009         \csuse{footgroup#1}{#1}%
2010     }%
2011     {%
2012         \ifboolexpr{%
2013             ((test {\ifcsstring{onlysideX@#1}{L}} and not test{\ifnumodd{\c@page
2014             }%
2015             or%
2016             (test {\ifcsstring{onlysideX@#1}{R}} and test{\ifnumodd{\c@page}}))%
2017         }%
2018         \csuse{footstart#1}{#1}%

```



```

2019         \csuse{footgroup#1}{#1}%
2020         \global\count\csuse{footins#1}=\z@%
2021         \global\skip\csuse{footins#1}=\z@%
2022         \global\dimen\csuse{footins#1}=\maxdimen%
2023     }%
2024     {%
2025         \restore@notesX@settings{#1}%
2026     }%
2027 }%
2028 }%
2029 \newcommand{\restore@notesX@settings}[1]{%
2030     \unless\ifnofamiliar@
2031         \global\count\csuse{footins#1}=\csuse{default@footins#1}%
2032         \global\skip\csuse{footins#1}=\csuse{beforenotesX@#1}%
2033         \bgroup%
2034             \csuse{Xnotefontsize@#1}%
2035             \global\dimen\csuse{footins#1}=\csuse{maxhnotesX@#1}%
2036             \egroup%
2037             \global\setnamebox{footins#1@kept}=\box\namebox{footins#1}%
2038         \fi
2039     }%
2040     %

```

`\insert@notes@for@onlyside` `\insert@notes@for@onlyside` is everytime `\Pages` go to the next side. It just reinsert the notes note printed on the previous side because of `Xonlyside` or `\onlysideX` setting.

```

2041 \newcommand{\insert@notes@for@onlyside}{%
2042     \def\do##1{%
2043         \unless\ifnocritical@%
2044             \ifvoid\csuse{##1footins@kept}\else%
2045                 \expandafter\insert\csname ##1footins\endcsname%
2046                 \bgroup%
2047                     \unvnamebox{##1footins@kept}%
2048                 \egroup%
2049             \fi%
2050             \restore@Xnotes@settings{##1}%
2051         \fi%
2052         \unless\ifnofamiliar@%
2053             \ifvoid\csuse{footins##1@kept}\else%
2054                 \expandafter\insert\csname footins##1\endcsname%
2055                 \bgroup%
2056                     \unvnamebox{footins##1@kept}%
2057                 \egroup%
2058             \fi%
2059             \restore@notesX@settings{##1}%
2060         \fi%
2061     }%
2062     \dolistloop{\@series}%
2063 }%
2064 %

```


IX.2 Critical footnote printed in right side

`\edtext@later` and `\edtextnow` are used to print critical footnotes on the right side, while referring to the text on the left side. First, we create two counters, one for `\edtextlater` and the other for `\edtextnow`.

```

2065 \newcount\edtext@now%
2066 \newcount\edtext@later%
2067 %

2068 \newcommand{\edtextlater}[2]{%#1 lemma, #2 critical notes
2069 %

```

First, increase the `\edtext@later` counter.

```

2070 \global\advance\edtext@later by \@ne%
2071 %

2072 % As we are in a pseudo-\cs{edtext}, we now need to get the \cs{sameword}
data stored in the auxiliary file for this \cs{edtextlater}.
2073 \advance\@edtext@level by \@ne%
2074 \ifcsvoid{sw@list@edtext@\the\@edtext@level}%
2075     {\global\let\sw@inthisedtext\empty}%
2076     {\expandafter\gl@p\csname sw@list@edtext@\the\@edtext@level\
endcsname\to\sw@inthisedtext}%
2077 %

```

The main feature of `\edtextlater` is to create a macro which will be called on the equivalent `\edtextnow`.

```

2078 %
2079 \csxdef{edtext@later@\the\edtext@later}{%
2080 %

```

`\edtextnow` will insert a empty `\edtext`.

```

2081 \noexpand\edtext{%
2082 }%
2083 %

```

With a `\lemma` and `\linenum` defined by the current `\edtextlater`. Also with `\sameword` data gotten from the current `\edtextlater`

```

2084 {%
2085 \unexpanded{%
2086     \lemma{\no@expands #1}%
2087 }%
2088 \noexpand\xxref{start:edtext:later:\the\edtext@later}{end:edtext:
later:\the\edtext@later}%
2089 \noexpand\linenum{|||||\edfont@info}%
2090 \unexpanded{\def\sw@inthisedtext}{\expandonce{\sw@inthisedtext}}%
2091 %

```


As the `\edtextnow` is generally called on the other side than the corresponding `\edtextlater`, we need to store the side for a proper formatting of the footnote. We also need to store the `pstartL` / `pstartR` counter.

```

2092     \ifledRcol%
2093     \unexpanded{\appto\@beforeinsertofthisedtext{\ledRcol@true}}%
2094     {%
2095     \noexpand\setcounter{pstartR}{\noexpand\xpstartref{start:edtext:
later:\the\edtext@later}}%
2096     }%
2097     \else%
2098     \unexpanded{\appto\@beforeinsertofthisedtext{\ledRcol@false}}%
2099     \unexpanded{\appto\@beforeinsertofthisedtext}%
2100     {%
2101     \noexpand\setcounter{pstartL}{\noexpand\xpstartref{start:edtext:
later:\the\edtext@later}}%
2102     }%
2103     \fi%
2104 %

```

And the footnote command of this `\edtextlater`.

```

2105     \unexpanded{#2}%
2106     }%
2107     }%
2108 %

```

And now, we print the current lemma data. But we save the beginning and the starting line using the crossref mechanism. We also store information in the auxiliary file about the existence of a `\edtextlater` and, if required, about the use of a `\lemma`

```

2109     \edlabel{start:edtext:later:\the\edtext@later}%
2110     \flag@start@later%
2111     \bgroup%
2112     \def\lemma##1{%
2113         \ifledRcol%
2114         \write\linenum@outR{\string\@lemma}%
2115         \else%
2116         \write\linenum@out{\string\@lemma}%
2117         \fi%
2118     }%
2119     \renewcommand{\do}[1]{\expandafter\renewcommandx\csname ##1footnote\
endcsname[2][1,usedefault]{\unskip}%\unskip because of a spurious space in
\newcommandx
2120     \dolistloop{\@series}%
2121     #2%
2122     \egroup%
2123     \showlemma{#1}%
2124     \edlabel{end:edtext:later:\the\edtext@later}%
2125     \flag@end@later%
2126 %

```

We decrease the counter increased at the beginning.


```

2127 \advance\@edtext@level by -\@ne%
2128 }%
2129 %

```

`\edtextnow` just calls the command defined as is, reading the `\edtext@later` list.

```

2130 \newcommand{\edtextnow}[0]{%
2131 \global\advance\edtext@now by \@ne
2132 \csuse{edtext@later@\the\edtext@now}%
2133 }%
2134 %

```

X Cross referencing

`\labelref@listR` Set up a new list, `\labelref@listR`, to hold the page, line and sub-line numbers for each label in right text.

```

2135 \list@create{\labelref@listR}
2136
2137 %

```

`\edlabel` This command is defined only one time in `reledmac`, including features for `reledpar`.

`\l@dmake@labelsR` This is the right text version of `\l@dmake@labels`, taking account of `\@Rlineflag`.

```

2138 \def\l@dmake@labelsR#1|#2|#3|#4|#5|#6|#7{%
2139 \expandafter\ifx\csname the@label\csuse{XR@prefix}#7\endcsname%
2140 \relax%
2141 \else%
2142 \led@warn@DuplicateLabel{\csuse{XR@prefix}#7}%
2143 \fi%
2144 \csgdef{the@label\csuse{XR@prefix}#7}{#1|#2|#3|#4|#5|#6|\@Rlineflag}%
2145 \global\providetoggle{label@#7@ledRcol}%False is the default value of
this toggle, which tells us whether a label is linked to the right or left
side
2146 \global\toggletrue{label@#7@ledRcol}%
2147 \ignorespaces}
2148 \AtBeginDocument{%
2149 \def\l@dmake@labelsR#1|#2|#3|#4|#5|#6|#7{%
2150 }
2151
2152 %

```

`\@lab` The `\@lab` command, which appears in the `\linenum@out` file, appends the current values of page, line and sub-line to the `\labelref@list`. These values are defined by the earlier `\@page`, `\@nl`, and the `\sub@on` and `\sub@off` commands appearing in the `\linenum@out` file.

It is defined on `reledmac`.

XI Sidenotes

Regular `\marginpars` do not work inside numbered text — they do not produce any note but do put an extra unnumbered blank line into the text.

```
\sidenote@marginR Specifies which margin sidenotes can be in.
\sidenotemargin*
\sidenotemarginR
2153 \WithSuffix\newcommand\sidenotemargin*[1]{%
2154 \l@dgetsidenote@margin{#1}
2155 \global\sidenote@marginR=\@l@dttempcntb
2156 \global\sidenote@margin=\@l@dttempcntb
2157 }
2158 \newcommand{\sidenotemarginR}[1]{%
2159 \l@dgetsidenote@margin{#1}%
2160 \global\sidenote@marginR=\@l@dttempcntb%
2161 }%
2162 \newcount\sidenote@marginR
2163 \global\sidenote@marginR=\@ne%
2164
2165 \ifmovecolumnspostiononrightpage%
2166 \sidenotemargin{inner}%
2167 \sidenotemarginR{outer}%
2168 \fi%
2169
2170 %
```

```
\@morespace@rightnote@leftcolumn
\@morespace@leftnote@rightcolumn
\get@sidenote@morespace@columns
```

If we are typesetting parallel columns, we may want a left sidenote called on the right column be put on the left of the page and not on the left of the column, and a right sidenote called on the left column be put on the right of the page and not on the right of the column. We store as an option in the `\if@sidenotesmarginpage` boolean.

To do it, we need to add spaces, respectively defined on `\@morespace@leftnote@rightcolumn` and `\@morespace@rightnote@leftcolumn`. The `\get@sidenote@morespace@columns` calculate there two lengths.

```
2171 \newdimen\@morespace@leftnote@rightcolumn%
2172 \newdimen\@morespace@rightnote@leftcolumn%
2173
2174
2175
2176 \newcommand{\get@sidenote@morespace@columns}{%
2177 %
```

The calculations are made only if `\if@sidenotesmarginpage` is TRUE.

```
2178 \if@sidenotesmarginpage%
2179 %
```

Now, we can calculate `\@morespace@leftnote@rightcolumn` and `\@morespace@rightnote@leftcolumn`

```
2180 \global\@morespace@leftnote@rightcolumn=\dimexpr\intercolumns@width + \
Lcolwidth\relax%
```



```

2181 \global\@morespace@rightnote@leftcolumn=\dimexpr\intercolumns@width + \
Rcolwidth\relax%
2182 %

If \if@sidenotesmarginpage is False

2183 \else%
2184 \global\@morespace@leftnote@rightcolumn=\z@%
2185 \global\@morespace@rightnote@leftcolumn=\z@%
2186 %

End of \get@sidenote@morespace@columns.

2187 \fi%
2188 }%
2189 %

```

\affixside@noteR The right text version of \affixside@note.

```

2190 \newcommand*{\affixside@noteR}{%
2191 \prepare@edindex@for@note{\the\page@numR|\the\line@numR|\the\
subline@numR|\the\page@numR|\the\line@numR|\the\subline@numR|}%
2192 \def\sidenotecontent@{}%
2193 \numgdef{\itemcount@}{0}%
2194 \def\do##1{%
2195 \ifnumequal{\itemcount@}{0}%
2196 {%
2197 \appto\sidenotecontent@{##1}}% Not print not separator before
the 1st note
2198 {\appto\sidenotecontent@{\@sidenotesep ##1}%
2199 }%
2200 \numgdef{\itemcount@}{\itemcount@+1}%
2201 }%
2202 \dolistloop{\l@dcnotes@text}%
2203 \ifnumgreater{\itemcount@}{1}{\led@err@ManySidenotes}{}%
2204 \gdef\@templ@d{%
2205 \gdef\@templ@n{\l@dcnotes@text\l@dcnotes@text@1\l@dcnotes@text@r}%
2206 \ifx\@templ@d\@templ@n \else%
2207 \if@twocolumn%
2208 \if@firstcolumn%
2209 \setl@dlp@rbox{##1}{\sidenotecontent@}%
2210 \else%
2211 \setl@drp@rbox{\sidenotecontent@}%
2212 \fi%
2213 \else%
2214 \l@dcnotes@marginR%
2215 \ifnum\l@dcnotes@marginR>\@ne%
2216 \advance\l@dcnotes@marginR by\page@numR%
2217 \fi%
2218 \ifodd\l@dcnotes@marginR%
2219 \setl@drp@rbox{\sidenotecontent@}%

```



```

2220 \gdef\sidenotecontent@{}%
2221 \numdef{\itemcount@}{0}%
2222 \dolistloop{\l@dcstotetext@l}%
2223 \ifnumgreater{\itemcount@}{1}{\led@err@ManyLeftnotes}{}%
2224 \setl@dlp@rbox{\sidenotecontent@}%
2225 \else%
2226 \setl@dlp@rbox{\sidenotecontent@}%
2227 \gdef\sidenotecontent@{}%
2228 \numdef{\itemcount@}{0}%
2229 \dolistloop{\l@dcstotetext@r}%
2230 \ifnumgreater{\itemcount@}{1}{\led@err@ManyRightnotes}{}%
2231 \setl@drp@rbox{\sidenotecontent@}%
2232 \fi%
2233 \fi%
2234 \fi%
2235 \advance\@edindex@for@note@m@one%
2236 }
2237
2238 %

```

XII Verse

Like in `reledmac`, the insertion of `hangingsymbol` is base on `\ifinserthangingsymbol`, and, for the right side, on `\ifinserthangingsymbolR`. Both commands also include the hanging space, to be sure the `\one@line` of hanging lines has the same width that the `\one@line` of normal lines and to prevent the column separator from shifting.

```

\inserthangingsymbolL39 \newif\ifinserthangingsymbolR
\inserthangingsymbolR40 \newcommand{\inserthangingsymbolL}{%
2241 \ifinserthangingsymbol%
2242 \ifinstanzaL%
2243 \hskip \@ifundefined{sza@00}{0}{\expandafter%
2244 \noexpand\csname sza@00\endcsname}\stanzaindentbase%
2245 \@hangingsymbol%
2246 \fi%
2247 \ifinastanzaL%
2248 \@hangingsymbol%
2249 \fi%
2250 \fi%
2251 }%
2252 \newcommand{\inserthangingsymbolR}{%
2253 \ifinserthangingsymbolR%
2254 \ifinstanzaR%
2255 \hskip \@ifundefined{sza@00}{0}{\expandafter%
2256 \noexpand\csname sza@00\endcsname}\stanzaindentbase%
2257 \@hangingsymbol%
2258 \fi%
2259 \ifinastanzaR%

```



```

2260 \hangingsymbol%
2261 \fi%
2262 \fi%
2263 }%
2264 %

```

Before we can define the main stanza macros we need to be able to save and reset the category code for &. To save the current value we use \next from the \loop macro.

```

2265 \chardef\next=\catcode`&
2266 \catcode`&=\active
2267
2268 %

```

`astanza` This is roughly an environmental form of \stanza, which treats its stanza-like contents as a single chunk.

```

2269 \newenvironmentx{astanza}[2][1,2,usedefault]{%
2270 \ifledRcol%
2271 \global\inastanzaRtrue%
2272 \else%
2273 \global\inastanzaLtrue%
2274 \fi%
2275 \catcode`&=\active
2276 \global\stanza@count\@ne\stanza@modulo\@ne
2277 \@advancestanzanumber%
2278 \newdimen\parindent@beforestanza%
2279 \parindent@beforestanza=\parindent%Keep in memory the standard \parindent
2280 \ifnum\usernamecount{sza@0@}=\z@
2281 \let\stanza@hang\relax
2282 \let\endlock\relax
2283 \else
2284 \rightskip\z@ plus 1fil\relax
2285 \fi
2286 \ifnum\usernamecount{szp@0@}=\z@
2287 \let\sza@penalty\relax
2288 \fi
2289 \def&{%
2290 \endlock\mbox{}}%
2291 \sza@penalty
2292 \global\advance\stanza@count\@ne
2293 \@astanza@line}%
2294 \def\&{\@stopastanza}%
2295 \ifboolexpr{%
2296 not test{\ifdefvoid{\at@every@stanza}}%
2297 and test{\ifstrempy{#1}}%
2298 and test{\ifstrempy{#2}}}%
2299 {\pstart[][\at@every@stanza]\at@start@every@stanza}%
2300 {\pstart[#1][#2]\at@start@every@stanza}%
2301 \@astanza@line
2302 \@insertstanzanumber%

```



```

2303 \let\par\relax\ignorespaces%No paragraph in verses
2304 }{%
2305 \global\undef\parindent@beforestanza%
2306 }%
2307
2308 %

```

\@stopastanza This command is called by `\&` in `astanza` environment. It allows optional arguments.

```

2309 \newcommandx{\@stopastanza}[2][1,2,usedefault]{%
2310 \endlock\mbox{}}%
2311 \ifboolexpr{%
2312 not test{\ifdefvoid{\at@every@stop@stanza}}%
2313 and test{\ifstrempy{#1}}%
2314 and test{\ifstrempy{#2}}%
2315 }%
2316 {\before@every@stop@stanza\pend[][\at@every@stop@stanza]}%
2317 {\before@every@stop@stanza\pend[#1][#2]}%
2318 }%
2319 %

```

\@astanza@line This gets put at the start of each line in the environment. It sets up the paragraph style — each line is treated as a paragraph.

```

2320 \newcommand*{\@astanza@line}{%
2321 \stanza@indent%
2322 \endgraf
2323 \stanza@hang%
2324 \ignorespaces}
2325
2326 %

```

Lastly reset the modified category codes.

```

2327 \catcode`\&=\next
2328
2329 %

```

\thestanzaL And now, the left and right stanza counter.

```

\thestanzaR
2330 \newcounter{stanzaL}
2331 \newcounter{stanzaR}
2332 \renewcommand{\thestanzaL}{%
2333 \textbf{\arabic{stanzaL}}%
2334 }
2335 \renewcommand{\thestanzaR}{%
2336 \textbf{\arabic{stanzaR}}%
2337 }
2338 %
2339 %

```


XIII Fixing babel and polyglossia

With parallel texts there is the possibility that the two sides might use different languages via babel. On the other hand, nor babel nor polyglossia might not be called at all (even though it might be already built into the format).

With the normal sequential text each line is initially typeset in the current language environment, and then it is output at which time its attachments are typeset (in the same language environment. In the parallel case lines are typeset in their current language but an attachment might be typeset outside the language environment of its line if the left and right side languages are different. To counter this, we have to make sure that the correct language is used at the proper times.

```
\ifl@dusedbabel A flag for checking if babel has been used as a package.
\l@dusedbabelfalse
\l@dusedbabeltrue 2340 \newif\ifl@dusedbabel
2341 %
```

```
\l@dchecklang

\bb1@set@language In babel the macro \bb1@set@language{<lang>} does the work when the language
<lang> is changed via \selectlanguage. Unfortunately for us, if it is given an argument
in the form of a control sequence it strips off the \ character rather than expanding the
command. We need a version that accepts an argument in the form \lang without it
stripping the \.
```

```
2342 \patchcmd{\bb1@set@language}%
2343 {\select@language{\language}}%
2344 {\edef\language{#1}\select@language{\language}}%
2345 {}%
2346 {}%
2347
2348 %
```

The rest of the setup has to be postponed until the end of the preamble when we know if babel or polyglossia have been used or not. However, for now assume that it has not been used.

```
\selectlanguage \selectlanguage is a babel command. \theledlanguageL and \theledlanguageR
\l@duselanguage are the names of the languages of the left and right texts. \l@duselanguage is similar
\theledlanguageL to \selectlanguage.
\theledlanguageR
2349 \newcommand*{\l@duselanguage}[1]{\{
2350 \gdef\theledlanguageL{\{
2351 \gdef\theledlanguageR{\{
2352
2353 %
```

Now do the babel or polyglossia fix or, if necessary.


```

2354 \AtBeginDocument{%
2355   \ifundefined{xpg@main@language}{%
2356     \ifundefined{bbl@main@language}{%
2357 %

```

Either babel has not been used or it has been used with no specified language.

```

2358   \l@dusedbabelfalse
2359 }{%
2360 %

```

Here we deal with the case where babel has been used. `\selectlanguage` has to be redefined to use our version of `\bbl@set@language` and to store the left or right language.

```

2361   \l@dusedbabeltrue
2362   \let\l@doldselectlanguage\selectlanguage
2363   \let\l@doldbbl@set@language\bbl@set@language
2364   \renewcommand{\selectlanguage}[1]{%
2365     \l@doldselectlanguage{#1}%
2366     \ifledRcol \gdef\theledlanguageR{#1}%
2367     \else      \gdef\theledlanguageL{#1}%
2368     \fi}
2369 %

```

`\l@duselanguage` simply calls the original `\selectlanguage` so that `\theledlanguageL` and `\theledlanguageR` are unaltered.

```

2370   \renewcommand*{\l@duselanguage}[1]{%
2371     \expandafter\l@doldselectlanguage\expandafter{#1}}
2372 %

```

Lastly, initialise the left and right languages to the current babel one.

```

2373   \gdef\theledlanguageL{\bbl@main@language}%
2374   \gdef\theledlanguageR{\bbl@main@language}%
2375   }%
2376 }
2377 %

```

If use polyglossia

```

2378   {%
2379     \ifpackagelater{polyglossia}{2020/04/08}{\led@err@polyglossiaTooOld}
2380 %
2381     \let\old@otherlanguage\otherlanguage%
2382     \renewcommand{\otherlanguage}[2][ ]{%
2383       \xpg@set@group@aux%
2384       \selectlanguage{#1}{#2}%
2385       \ifledRcol \gdef\theledlanguageR{#2}%
2386       \else      \gdef\theledlanguageL{#2}%
2387       \fi}%
2388     \renewcommand{\l@duselanguage}[1]{%
2389       \csuse{no\language@name @numbers}%

```



```

2389 \select@language{#1}%
2390 }%
2391 \gdef\theledlanguageL{\xpg@main@language}%
2392 \gdef\theledlanguageR{\xpg@main@language}%
2393 %

```

That is it.

```

2394 }}
2395 %

```

XIV Counts and boxes for parallel texts

In sequential text, each chunk (that enclosed by `\pstart ... \pend`) is put into a box called `\raw@text` and then immediately printed, resulting in the box being emptied and ready for the next chunk. For parallel processing multiple boxes are needed as printing is delayed. We also need extra counters for various things.

`\maxchunks` The maximum number of chunk pairs before printing has to be called for. The default
`\l@dc@maxchunks` is 5120 chunk pairs.

```

2396 \newcount\l@dc@maxchunks
2397 \newcommand{\maxchunks}[1]{\l@dc@maxchunks=#1}
2398 \maxchunks{5120}
2399 %
2400 %

```

`\l@dnumpstartsL` The numbers of left and right chunks. `\l@dnumpstartsL` is defined in `eledmac`.
`\l@dnumpstartsR`

```

2401 \newcount\l@dnumpstartsR
2402 %
2403 %

```

`\l@dpscl` A couple of scratch counts to count left and right `\pstart`, respectively.

`\l@dpscr`

```

2404 \newcount\l@dpscl
2405 \newcount\l@dpscr
2406 %
2407 %

```

`\l@dsetuprawboxes` This macro creates `\maxchunks` pairs of boxes for left and right chunks. The boxes are called `\l@dLcolrawbox1`, `\l@dLcolrawbox2`, etc.

```

2408 \newcommand*{\l@dsetuprawboxes}{%
2409 \l@dttempcntb=\l@dc@maxchunks
2410 \loop\ifnum\l@dttempcntb>\z@
2411 \newnamebox{\l@dLcolrawbox\the\l@dttempcntb}
2412 \newnamebox{\l@dRcolrawbox\the\l@dttempcntb}
2413 \advance\l@dttempcntb \m@ne

```



```

2414 \repeat}
2415
2416 %

```

`\l@dssetupmaxlinecounts` To be able to synchronise left and right texts we need to know the maximum number of text lines there are in each pair of chunks. `\l@dssetupmaxlinecounts` creates `\maxchunks` new counts called `\l@dsmaxlinesinpar1`, etc., and `\l@dszeromaxlinecounts` zeroes all of them.

```

2417 \newcommand*{\l@dssetupmaxlinecounts}{%
2418   \@l@dssetupcntb=\l@dsdc@maxchunks
2419   \loop\ifnum\@l@dssetupcntb>\z@
2420     \newnamecount{\l@dsmaxlinesinpar\the\@l@dssetupcntb}
2421     \advance\@l@dssetupcntb \m@ne
2422   \repeat}
2423 \newcommand*{\l@dszeromaxlinecounts}{%
2424   \beginingroup
2425   \@l@dssetupcntb=\l@dsdc@maxchunks
2426   \loop\ifnum\@l@dssetupcntb>\z@
2427     \global\usernamecount{\l@dsmaxlinesinpar\the\@l@dssetupcntb}=\z@
2428     \advance\@l@dssetupcntb \m@ne
2429   \repeat
2430   \endgroup}
2431
2432 %

```

Make sure that all these are set up. This has to be done after the user has had an opportunity to change `\maxchunks`.

```

2433 \AtBeginDocument{%
2434   \l@dssetupprawboxes
2435   \l@dssetupmaxlinecounts
2436   \l@dszeromaxlinecounts
2437   \l@dsnumpstartsL=\z@
2438   \l@dsnumpstartsR=\z@
2439   \l@dspscL=\z@
2440   \l@dspscR=\z@}
2441
2442 %

```

XV Checking text to be processed

```

\if@pstarts \check@pstarts returns \@pstartstrue if there are any unprocessed chunks.
\@pstartstrue
\@pstartsfalse
\check@pstarts

```

```

2443 \newif\if@pstarts
2444 \newcommand*{\check@pstarts}{%
2445   \@pstartsfalse
2446   \ifnum\l@dsnumpstartsL>\l@dspscL

```



```

2447 \@pstartstrue
2448 \else
2449 \ifnum\l@dnumpstartsR>\l@dpscR
2450 \@pstartstrue
2451 \fi
2452 \fi
2453 }
2454
2455 %

```

`\ifaraw@text` `\checkraw@text` checks whether the current Left or Right box is void or not. If one or other is not void it sets `\araw@texttrue`, otherwise both are void and it sets `\araw@textfalse`.

```

\checkraw@text
2456 \newif\ifaraw@text
2457 \newcommand*\checkraw@text{%
2458 \araw@textfalse
2459 \ifvbox\namebox{\l@dLcolrawbox\the\l@dpscL}
2460 \araw@texttrue
2461 \else
2462 \ifvbox\namebox{\l@dRcolrawbox\the\l@dpscR}
2463 \araw@texttrue
2464 \fi
2465 \fi
2466 }
2467
2468 %

```

`\@writelinesinparL` `\@writelinesinparR` These write the number of text lines in a chunk to the section files, and then afterwards zero the counter.

```

2469 \newcommand*\@writelinesinparL{%
2470 \edef\next{%
2471 \write\linenum@out{\string\@pend[\the\@donereallinesL]}}%
2472 \next
2473 \global\@donereallinesL \z@}
2474 \newcommand*\@writelinesinparR{%
2475 \edef\next{%
2476 \write\linenum@outR{\string\@pendR[\the\@donereallinesR]}}%
2477 \next
2478 \global\@donereallinesR \z@}
2479
2480 %

```

`\@writepageofparL` These write the pages where start the first line of a chunk.

```

\@writepageofparL
2481 \newcommand*\@writepageofparL[0]{%
2482 \ifnum\@donereallinesL=\z@%
2483 \edef\next{%

```



```

2484 \write\linenum@out{\string\@pstart{\the\l@dpscL}{\the\c@page}{\the\
numpagelinesL}}%
2485 }%
2486 \next%
2487 \fi%
2488 }%
2489 \newcommand*{\@writepageofparR}[0]{%
2490 \ifnum\@donereallinesR=\z@%
2491 \edef\next{%
2492 \write\linenum@outR{\string\@pstartR{\the\l@dpscR}{\the\c@page}{\the\
numpagelinesR}}%
2493 }%
2494 \next%
2495 \fi%
2496 }%
2497 %

```

XVI Parallel columns

\@eledsectionL The parbox \@eledsectionL and \@eledsectionR will keep the sections' title.

```

\@eledsectionR
2498 \newsavebox{\@eledsectionL}%
2499 \newsavebox{\@eledsectionR}%
2500 %

```

\Columns The \Columns command results in the previous Left and Right texts being typeset in matching columns. There should be equal numbers of chunks in the left and right texts.

```

2501 \newcommand*\Columns{%
2502 \ifl@dpairing%
2503 \led@err@Columns@InsideEnv%
2504 \fi%
2505 \ifboolexpr{test{\ifcsboxvoid{l@dRcolrawbox1}} or test{\ifcsboxvoid{
l@dLcolrawbox1}}}{%
2506 \ifcsboxvoid{l@dRcolrawbox1}{%
2507 \ifcsboxvoid{l@dLcolrawbox1}%
2508 {\led@err@Columns@WithoutEnv}%
2509 {\led@err@Columns@WithoutRightside}%
2510 }%
2511 {\led@err@Columns@WithoutLeftside}%
2512 }{%
2513 \global\l@dprintingcolumnstrue%
2514 \eledsection@correcting@skip=-\baselineskip% Correction for sections'
titles
2515 \ifnum\l@dnumpstartsL=\l@dnumpstartsR\else
2516 \led@err@BadLeftRightPstarts{\the\l@dnumpstartsL}{\the\l@dnumpstartsR}%
2517 \fi
2518 %

```


Start a group and zero counters, etc.

```

2519 \begingroup
2520   \l@dzeropenalties
2521   \endgraf\global\num@lines=\prevgraf
2522         \global\num@linesR=\prevgraf
2523   \global\par@line=\z@
2524   \global\par@lineR=\z@
2525   \global\l@dpscL=\z@
2526   \global\l@dpscR=\z@
2527   \get@familiarfootnote@number%
2528   \get@intercolumns@width%
2529   \get@sidenote@morespace@columns%
2530 %

```

Check if there are chunks to be processed, and process them two by two (left and right pairs).

```

2531   \check@pstarts
2532   \loop\if@pstarts
2533     \global\pstartnumtrue
2534     \global\pstartnumRtrue
2535 %

```

Increase `\l@dpscL` and `\l@dpscR` which here count the numbers of left and right chunks. Increase `\pstarts@typeset@L`, which counts the number of `\pstart` typeset both in not parallel mode and in the left side of parallel mode. Also restore the value of the public `pstart` counters.

```

2536   \global\advance\l@dpscL \@ne
2537   \global\advance\l@dpscR \@ne
2538   \global\advance\pstarts@typeset@L\@ne%
2539   \restore@pstartL@pc%
2540   \restore@pstartR@pc%
2541 %

```

We print the optional argument of `\pstart` or the argument of `\AtEveryPstart`.

```

2542   \Columns@print@before@pstart%
2543 %

```

Check if there is text yet to be processed in at least one of the two current chunks, and also whether the left and right languages are the same

```

2544   \checkraw@text
2545   { \loop\ifaraw@text
2546 %

```

Grab the next pair of left and right text lines and output them, swapping languages if they differ, adding section title if needed.

```

2547   \l@duselanguage{\theledlanguageL}%
2548   \do@lineL
2549   \xifinlist{\the\pstarts@typeset@L}{\eled@sections@@}%

```



```

2550         {%
2551         \ifdefstring{\@eledsectmark}{L}%
2552         {\csuse{eled@sectmark@the\pstarts@typeset@L}%
2553         }}%
2554         \global\csundef{eled@sectmark@the\pstarts@typeset@L}%
2555         \savebox{\@eledsectionL}{\parbox[t]{}[t]{\Lcolwidth}{\vbox
2556 {}\print@eledsectionL}}}%\vbox{}-> prevent alignment troubles with RTL
2557         language
2558         {%
2559         \l@duselanguage{\theledlanguage}%
2560         \do@lineR
2561         \xifinlist{\the\l@dpscR}{\eled@sectionsR@@}
2562         {%
2563         \ifdefstring{\@eledsectmark}{R}%
2564         {\csuse{eled@sectmark@the\l@dpscR R}%
2565         }}%
2566         \global\csundef{eled@sectmark@the\l@dpscR R}%
2567         \savebox{\@eledsectionR}{\parbox[t]{}[t]{\Rcolwidth}{\vbox
2568 {} \print@eledsectionR}}}%\vbox{}-> prevent alignment troubles with RTL
2569         language
2570         {%
2571         \hb@xt@ \hsize{%
2572         \ifdefstring{\columns@position}{L}{\hfill }%
2573         \print@leftcolumn%
2574         \print@columnseparator%
2575         \print@rightcolumn%
2576         \ifdefstring{\columns@position}{R}{\hfill}%
2577         }%
2578         \checkraw@text
2579         \checkverseL
2580         \checkverseR
2581         \checkpb@columns
2582         \repeat}
2583 %

```

Having completed a pair of chunks, write the number of lines in each chunk to the respective section files. Increment pstart counters and reset line numbering if it is by pstart.

```

2581 \@writelinesinparL
2582 \@writelinesinparR
2583 \check@pstarts
2584 \ifbypstart@%
2585 \unless\ifinstanza%
2586 \write\linenum@out{\string\@set[1]}%
2587 \resetprevline@%
2588 \fi%
2589 \fi
2590 \ifbypstart@R
2591 \unless\ifinstanza%

```



```

2592         \write\linenum@outR{\string\@set[1]}%
2593         \resetprevline@%
2594         \fi%
2595     \fi
2596     \Columns@print@after@pend%
2597 \repeat
2598 %

```

Having output all chunks, make sure all notes have been output, then zero counts ready for the next set of texts. The boolean tests for stanza are switched to false.

```

2599     \flush@notes
2600     \flush@notesR
2601 \endgroup
2602 %

```

```

2603 \global\l@dpscL=\z@
2604 \global\l@dpscR=\z@
2605 \global\l@dnpstartsL=\z@
2606 \global\l@dnpstartsR=\z@
2607 \global\l@dprintingcolumnsfalse%
2608 \ignorespaces
2609     \global\instanzaLfalse%
2610     \global\instanzaRfalse%
2611 }%
2612 }%
2613
2614 %

```

\print@columnseparator \print@columnseparator prints the column separator, with surrounding spaces (as the user has set them). We use the \TeX `\ifdim` instead of `etoolbox` to avoid having `\hfill` in a `{}`, which deletes some space (but not much).

```

2615 \def\print@columnseparator{%
2616     \ifdim\beforecolumnseparator<0pt%
2617         \hfill%
2618     \else%
2619         \hspace{\beforecolumnseparator}%
2620     \fi%
2621     \columnseparator%
2622     \ifdim\aftercolumnseparator<0pt%
2623         \hfill%
2624     \else%
2625         \hspace{\aftercolumnseparator}%
2626     \fi%
2627 }%
2628 %

```

\get@intercolumns@width The `\intercolumns@width` is calculated by `\get@intercolumns@width`. This length depends of many parameters:
\intercolumns@width

- Columns width;
- columns position;
- columns separator;
- space between columns and columns separator, which can be fixed by user or automatically calculated by `reledpar`.

This length is never used directly, but it is used to calculate some other lengths.

```

2629 \newdimen\intercolumns@width%
2630 \newcommand{\get@intercolumns@width}{%
2631 %   \begin{macrocode}
2632   \global\intercolumns@width=\z@%
2633   \ifdefstring{\columns@position}{C}%
2634 %
```

First case, the columns are centered.

```

2635   {%
2636 %
```

First sub-case, the width between columns is automatically calculated.

```

2637   \ifboolexpr{%
2638     test {\ifdimless{\beforecolumnseparator}{\z@}}%
2639     and test {\ifdimless{\aftercolumnseparator}{\z@}}%
2640   }%
2641   {%
2642     \global\intercolumns@width=\dimexpr%
2643       \columnrulewidth +%
2644       (\textwidth - \Lcolwidth - \Rcolwidth - \columnrulewidth)*1/2%
2645     The total of the width before and after column separator
2646     \relax%
2647   }%
2648 %
```

Second sub-case, the width between column is fully determined by user setting.

```

2649   \ifboolexpr{%
2650     test {\ifdimgreater{\beforecolumnseparator}{\z@}}%
2651     and test {\ifdimgreater{\aftercolumnseparator}{\z@}}%
2652   }%
2653   {%
2654     \global\intercolumns@width=\dimexpr%
2655     \columnrulewidth + \beforecolumnseparator + \aftercolumnseparator
2656 %
2657     \relax%
2658   }%
2659 %
```


Third sub-case, the width before column separator is determined by user setting, but the width after column separator is automatically calculated.

```

2660 \ifboolexpr{%
2661     test {\ifdimgreater{\beforecolumnseparator}{\z@}}%
2662     and test {\ifdimless{\aftercolumnseparator}{\z@}}%
2663 }%
2664 {%
2665     \global\intercolumns@width=\dimexpr%
2666         \columnrulewidth + \beforecolumnseparator +%
2667         (\textwidth - \Lcolwidth - \Rcolwidth - \columnrulewidth - \
beforecolumnseparator) * 1/3%
2668     \relax%
2669 }%
2670}%
2671%
```

Fourth and last sub-case, the width before column separator is automatically calculated, but the width after column separator is determined by user setting.

```

2672 \ifboolexpr{%
2673     test {\ifdimless{\beforecolumnseparator}{\z@}}%
2674     and test {\ifdimgreater{\aftercolumnseparator}{\z@}}%
2675 }%
2676 {%
2677     \global\intercolumns@width=\dimexpr%
2678         \columnrulewidth + \aftercolumnseparator +%
2679         (\textwidth - \Lcolwidth - \Rcolwidth - \columnrulewidth - \
aftercolumnseparator) * 1/3%
2680     \relax%
2681 }%
2682}%
2683%
```

Now, we have finished with the case the columns are centered aligned.

```

2684 }%
2685%
```

Other case, the columns are left or right aligned.

```

2686 {%
2687%
```

First sub-case, the width between columns is automatically calculated.

```

2688 \ifboolexpr{%
2689     test {\ifdimless{\beforecolumnseparator}{\z@}}%
2690     and test {\ifdimless{\aftercolumnseparator}{\z@}}%
2691 }%
2692 {%
2693     \global\intercolumns@width=\dimexpr%
2694         \columnrulewidth +%
```



```

2695      (\textwidth - \Lcolwidth - \Rcolwidth - \columnrulewidth)*2/3%
The total of the width before and after column separator
2696      \relax%
2697      }%
2698      {}%
2699  %

```

Second sub-case, the width between column is fully determined by user setting.

```

2700  \ifboolexpr{%
2701    test {\ifdimgreater{\beforecolumnseparator}{\z@}}%
2702    and test {\ifdimgreater{\aftercolumnseparator}{\z@}}%
2703  }%
2704  {%
2705    \global\intercolumns@width=\dimexpr%
2706    \columnrulewidth + \beforecolumnseparator + \aftercolumnseparator
2707  %
2708    \relax%
2709  }%
2710  {}%

```

Third sub-case, the width before column separator is determined by user setting, but the width after column separator is automatically calculated.

```

2711  \ifboolexpr{%
2712    test {\ifdimgreater{\beforecolumnseparator}{\z@}}%
2713    and test {\ifdimless{\aftercolumnseparator}{\z@}}%
2714  }%
2715  {%
2716    \global\intercolumns@width=\dimexpr%
2717    \columnrulewidth + \beforecolumnseparator +%
2718    (\textwidth - \Lcolwidth - \Rcolwidth - \columnrulewidth - \
beforecolumnseparator) * 1/2%
2719    \relax%
2720  }%
2721  {}%
2722  %

```

Fourth and last sub-case, the width before column separator is automatically calculated, but the width after column separator is determined by user setting.

```

2723  \ifboolexpr{%
2724    test {\ifdimless{\beforecolumnseparator}{\z@}}%
2725    and test {\ifdimgreater{\aftercolumnseparator}{\z@}}%
2726  }%
2727  {%
2728    \global\intercolumns@width=\dimexpr%
2729    \columnrulewidth + \aftercolumnseparator +%
2730    (\textwidth - \Lcolwidth - \Rcolwidth - \columnrulewidth - \
aftercolumnseparator) * 1/2%
2731    \relax%

```



```

2732 }%
2733 {}%
2734 %

```

We have finished with the case the columns are left or right aligned.

```

2735 }%
2736 %

```

End of `\get@intercolumns@width`.

```

2737 }%
2738 %

```

`\print@leftcolumn` and `\print@rightcolumn` print the line number of the left or right column respectively. Normally, it is defined by the content of the Leftside or Rightside environments. But if `\movecolumnpositiononrightpage` is set to TRUE, it also depends on the page number.

```

2739 \newcommand{\print@leftcolumn}{%
2740   \if\page@num>\page@numR%
2741     \l@dttempcntb=\page@num%
2742   \else%
2743     \l@dttempcntb=\page@numR%
2744   \fi%
2745   \ifboolexpr{%
2746     not bool {movecolumnpositiononrightpage}%
2747     or test {\ifnumodd{\l@dttempcntb}}}%
2748   {%
2749     \unhbox\l@leftbox%
2750     \ifhbox\@eledsectionL%
2751       \usebox{\@eledsectionL}%
2752     \fi%
2753   }%
2754   {%
2755     \unhbox\l@rightbox%
2756     \ifhbox\@eledsectionR%
2757       \usebox{\@eledsectionR}%
2758     \fi%
2759   }%
2760 }%
2761 }%
2762
2763
2764 \newcommand{\print@rightcolumn}{%
2765   \if\page@num>\page@numR%
2766     \l@dttempcntb=\page@num%
2767   \else%
2768     \l@dttempcntb=\page@numR%
2769   \fi%
2770   \ifboolexpr{%

```



```

2771     not bool {movecolumnspostiononrightpage}%
2772     or test {\ifnumodd{\@l@dttempcntb}}}%
2773   }%
2774   {%
2775     \unhbox\l@drightbox%
2776     \ifhbox\@eledsectionR%
2777       \usebox{\@eledsectionR}%
2778     \fi%
2779   }%
2780   {%
2781     \unhbox\l@dleftbox%
2782     \ifhbox\@eledsectionL%
2783       \usebox{\@eledsectionL}%
2784     \fi%
2785   }%
2786 }%
2787 %

```

`\checkpb@columns` `\checkpb@columns` prevent or make pagebreaking in columns, depending of the use of `\ledpb` or `\lednopb`.

```

2788 \newcommand{\checkpb@columns}{%
2789   \newif\if@pb
2790   \newif\if@nopb
2791   \IfStrEq{\led@pb@setting}{before}{
2792     \numdef{\next@absline}{\the\absline@num+1}%
2793     \numdef{\next@abslineR}{\the\absline@numR+1}%
2794     \xifinlist{\next@absline}{\l@prev@pb}{\@pbtrue}{}%
2795     \xifinlist{\next@abslineR}{\l@prev@pbR}{\@pbtrue}{%
2796     \xifinlist{\next@absline}{\l@prev@nopb}{\@nopbtrue}{}%
2797     \xifinlist{\next@abslineR}{\l@prev@nopbR}{\@nopbtrue}{%
2798     }{}
2799   }
2800   \IfStrEq{\led@pb@setting}{after}{
2801     \xifinlist{\the\absline@num}{\l@prev@pb}{\@pbtrue}{}%
2802     \xifinlist{\the\absline@numR}{\l@prev@pbR}{\@pbtrue}{%
2803     \xifinlist{\the\absline@num}{\l@prev@nopb}{\@nopbtrue}{}%
2804     \xifinlist{\the\absline@numR}{\l@prev@nopbR}{\@nopbtrue}{%
2805     }{}
2806     \if@nopb\nopagebreak[4]\enlargethispage{\baselineskip}\fi
2807     \if@pb\pagebreak[4]\fi
2808   }
2809 }%

```

`\columnseparator` The separator between line pairs in parallel columns is in the form of a vertical rule extending a little below the baseline and with a height slightly greater than the `\baselineskip`. The width of the rule is `\columnrulewidth` (initially 0pt so the rule is invisible).

```

2810 \newcommand*{\columnseparator}{%

```



```

2811 \smash{\rule[-0.2\baselineskip]{\columnrulewidth}{1.05\baselineskip}}
2812 \newdimen\columnrulewidth
2813 \columnrulewidth=\z@
2814
2815 %

```

\columnspan The position of the \Columns in a page. Default value is R. Stored in \columns@position.

```

\columns@position
2816 \newcommand*\columnspan[1]{%
2817 \xdef\columns@position{#1}%
2818 }%
2819 \xdef\columns@position{R}%
2820 %

```

\beforecolumnseparator \beforecolumnseparator and \aftercolumnseparator lengths are defined to -1pt.

\aftercolumnseparator If user changes them to a positive length, the lengths are used to define blank spaces before / after the column separator, instead of \hfill.

```

2821 \newlength{\beforecolumnseparator}%
2822 \setlength{\beforecolumnseparator}{-2pt}%
2823
2824 \newlength{\aftercolumnseparator}%
2825 \setlength{\aftercolumnseparator}{-2pt}%
2826
2827 %

```

setwidthliketwocolumns The \setwidthliketwocolumns macro is called in \beginnumbering in a **non-parallel** typesetting context, to fix the width of the lines to be vertically aligned with parallel columns. It is also called at the beginning of a note's group, if some options are enabled. The \setposition... macros are called in \beginnumbering in a **non-parallel** typesetting context to fix the position of the lines. The \setnoteposition... macros are called in \xxxfootstart in a **non-parallel** typesetting context to fix the position of the notes block.

```

2828 \newcommand{\setwidthliketwocolumns}{%
2829 \get@intercolumns@width%As \columns is not necessary called before \
setwidthliketwocolumns
2830 \hsize=\dimexpr \Lcolwidth + \intercolumns@width + \Rcolwidth \relax%
2831 }%
2832
2833 \newcommand{\setpositionliketwocolumns@L}{%
2834 \renewcommand{\ledrlfill}{\hfill}%
2835 }%
2836
2837 \newcommand{\setnotespositionliketwocolumns@L}{%
2838 }%
2839
2840 \newcommand{\setpositionliketwocolumns@C}{%
2841 \doinsidelinehook{\hfill}%

```



```

2842 \renewcommand{\ledrlfill}{\hfill}%
2843 }%
2844
2845 \newcommand{\setnotespositionliketwocolumns@C}{%
2846 \newdimen\temp%
2847 \newdimen\tempa%
2848 \temp=\hsize%
2849 \tempa=\Lcolwidth%
2850 \advance\tempa\Rcolwidth%
2851 \advance\temp-\tempa%
2852 \divide\temp by 2%
2853 \leftskip=\temp%
2854 \rightskip=-\temp%
2855 }%
2856
2857 \newcommand{\setpositionliketwocolumns@R}{%
2858 \doinsidelinehook{\hfill}%
2859 }%
2860 %

```

`\Columns@print@before@pstart` The `\Columns@print@before@pstart` and `\Columns@print@after@pend` print the content of the optional argument of `\pstart` / `\pend`. If this content is not empty, it also print the separator.

```

2861 \newcommand{\Columns@print@before@pstart}{%
2862 \ifboolexpr{%
2863   test{\ifcsstring{before@pstartL@the\l@dpscl}{\at@every@pstart}}}%
2864   and test {\ifcsstring{before@pstartR@the\l@dpscR}{\at@every@pstart}}}%
2865   and test {\ifdefempty{\at@every@pstart}}}%
2866   {}%
2867   {%
2868   \ifboolexpr{not togl{before@pstartR@the\l@dpscR @par} and not togl{
before@pstartL@the\l@dpscl @par}}{%
2869     \csuse{before@pstartL@the\l@dpscl}%
2870     \csuse{before@pstartR@the\l@dpscR}%
2871   }{%
2872     \hb@xt@ \hsize{%
2873       \ifdefstring{\columns@position}{L}{\hfill }%
2874       \par\parbox[t]{}[t]{\Lcolwidth}{%
2875         \csuse{before@pstartL@the\l@dpscl}%
2876       }%
2877       \print@columnseparator%
2878       \parbox[t]{}[t]{\Rcolwidth}{%
2879         \set@sectcountR%
2880         \csuse{before@pstartR@the\l@dpscR}%
2881       }%
2882       \ifdefstring{\columns@position}{R}{\hfill}%
2883     }%
2884   }%
2885 }%

```



```

2886 \global\csundef{before@pstartL@the\l@dpscL}%
2887 \global\csundef{before@pstartR@the\l@dpscR}%
2888 }%
2889 \newcommand{\Columns@print@after@pend}{%
2890 \ifboolexpr{%
2891   test{\ifcsstring{after@pendL@the\l@dpscL}{\at@every@pend}}%
2892   and test {\ifcsstring{after@pendR@the\l@dpscR}{\at@every@pend}}%
2893   and test {\ifdefempty{\at@every@pend}}}%
2894   {%
2895   {%
2896     \ifboolexpr{not togl{after@pendR@the\l@dpscR @par} and not togl{
after@pendL@the\l@dpscL @par}}{%
2897       \csuse{after@pendL@the\l@dpscL}%
2898       \csuse{after@pendR@the\l@dpscR}%
2899     }{%
2900       \hb@xt@ \hsize{%
2901         \ifdefstring{\columns@position}{L}{\hfill }%
2902         \parbox[t] [] [t]{\Lcolwidth}{%
2903           \csuse{after@pendL@the\l@dpscL}%
2904         }%
2905         \print@columnseparator%
2906         \parbox[t] [] [t]{\Rcolwidth}{%
2907           \set@sectcountR%
2908           \csuse{after@pendR@the\l@dpscR}%
2909         }%
2910         \ifdefstring{\columns@position}{R}{\hfill}%
2911       }%
2912     }%
2913   }%
2914   \global\csundef{after@pendL@the\l@dpscL}%
2915   \global\csundef{after@pendR@the\l@dpscR}%
2916 }%
2917 %

```

XVII Parallel pages

This is considerably more complicated than parallel columns.

XVII.1 Specific counters

`\numpagelinesL` Counts for the number of lines on a left or right page, and the smaller of the number of
`\numpagelinesR` lines on a pair of facing pages.
`\l@dminpagelines`

```

2918 \newcount\numpagelinesL
2919 \newcount\numpagelinesR
2920 \newcount\l@dminpagelines
2921
2922 %

```


XVII.2 Main macro

`\Pages` The `\Pages` command results in the previous Left and Right texts being typeset on matching facing pages. There should be equal numbers of chunks in the left and right texts.

```

2923 \newcommandx*{\Pages}[1][1,usedefault]{%
2924   \ifl@dpairing%
2925     \led@err@Pages@InsideEnv%
2926   \fi%
2927   \ifbool{test{\ifcsboxvoid{l@dRcolrawbox1}} or test{\ifcsboxvoid{
l@dLcolrawbox1}}}{%
2928     \ifcsboxvoid{l@dRcolrawbox1}{%
2929       \ifcsboxvoid{l@dLcolrawbox1}%
2930       {\led@err@Pages@WithoutEnv}%
2931       {\led@err@Pages@WithoutRightside}%
2932     }%
2933     {\led@err@Pages@WithoutLeftside}%
2934   }{%
2935     \ifstrequal{#1}{mainmatter}{\Pages@mainmattertrue}{\Pages@mainmatterfalse
}%
2936     \eledsection@correcting@skip=-2\baselineskip% line correcting for section
titles.
2937     \parledgroup@notespacing@set@correction%
2938     \typeout{}%
2939     \typeout{***** PAGES *****}%
2940     \ifnum\l@dnumstartsL=\l@dnumstartsR\else%
2941       \led@err@BadLeftRightPstarts{\the\l@dnumstartsL}{\the\l@dnumstartsR}%
2942     \fi%
2943   }%

```

Get onto an empty even (left) page, then initialise counters, etc.

```

2944   \cleartol@evenpage%
2945   \global\l@dprintingpagetrue%
2946   \begingroup%
2947   %

```

As `\Pages` must be called outside of the pages environment, we have to redefine the `\Lcolwidth` and `\Rcolwidth` lengths, to prevent false overfull hboxes.

```

2948   \Lcolwidth=\Lcolwidth@pages%
2949   \Rcolwidth=\Rcolwidth@pages%
2950   %
2951   \l@dzeropenalties%
2952   \endgraf\global\num@lines=\prevgraf%
2953     \global\num@linesR=\prevgraf%
2954   \global\par@line=\z@%
2955   \global\par@lineR=\z@%
2956   \global\l@dpscL=\z@%
2957   \global\l@dpscR=\z@%

```



```

2958 \writtenlinesLfalse%
2959 \writtenlinesRfalse%
2960 \get@familiarfootnote@number%
2961 %

```

The footnotes are printed in a different way from expected in `reledmac`, as we may want to print the notes on one side only.

```

2962 \let\print@Xnotes\print@Xnotes@forpages%
2963 \let\print@notesX\print@notesX@forpages%
2964 %

```

Check if there are chunks to be processed.

```

2965 \check@pstarts%
2966 \loop\if@pstarts%
2967 %

```

Loop over the number of chunks, incrementing the chunk counts (`\l@dpscL` and `\l@dpscR` are chunk (box) counts).

```

2968 \global\advance\l@dpscL \@ne%
2969 \global\advance\l@dpscR \@ne%
2970 %

```

Calculate the maximum number of real text lines in the chunk pair, storing the result in the relevant `\l@dmaxlinesinpar`.

```

2971 \getlinesfromparlistL%
2972 \getlinesfromparlistR%
2973 \l@dcalc@maxoftwo{\@cs@linesinparL}{\@cs@linesinparR}%
2974 {\usernamecount{l@dmaxlinesinpar\the\l@dpscL}}%
2975 \check@pstarts%
2976 \repeat%
2977 %

```

Zero the counts again, ready for the next bit.

```

2978 \global\l@dpscL=\z@%
2979 \global\l@dpscR=\z@%
2980 %

```

Get the number of lines on the first pair of pages and store the minimum in `\l@dminpagelines`.

```

2981 \getlinesfrompagelistL%
2982 \getlinesfrompagelistR%
2983 \l@dcalc@minoftwo{\@cs@linesonpageL}{\@cs@linesonpageR}%
2984 {\l@dminpagelines}%
2985 %

```

Now we start processing the left and right chunks (`\l@dpscL` and `\l@dpscR` count the left and right chunks), starting with the first pair.

```

2986 \check@pstarts%
2987 \if@pstarts%
2988 %

```


Increment the chunk counts to get the first pair. Restore also the value of public pstart counters.

```

2989 \global\advance\l@dpscL \@ne%
2990 \global\advance\l@dpscR \@ne%
2991 \global\advance\pstarts@typeset@L\@ne%
2992 \restore@pstartL@pc%
2993 \restore@pstartR@pc%
2994 %

```

We have not processed any lines from these chunks yet, so zero the respective line counts.

```

2995 \global\@donereallinesL=\z@%
2996 \global\@donetotallinesL=\z@%
2997 \global\@donereallinesR=\z@%
2998 \global\@donetotallinesR=\z@%
2999 %

```

Start a loop over the boxes (chunks).

```

3000 \checkraw@text%
3001 %
3002 % \begingroup
3003 { \loop\ifaraw@text%
3004 %

```

See if there is more that can be done for the left page and set up the left language.

```

3005 \checkpageL%
3006 \Leftpagehook%
3007 \l@duselanguage{\theledlanguageL}%
3008 { \loop\ifl@dsamepage%
3009 %

```

Process the next (left) text line, adding it to the page. Eventually, adds the optional argument of pstart.

```

3010 \ifdefstring{\@eledsectnotoc}{L}{\ledsectnotoc}{}%
3011 \csuse{before@pstartL@the\l@dpscL}%
3012 \global\csundef{before@pstartL@the\l@dpscL}%
3013 \do@lineL%
3014 \xifinlist{the\pstarts@typeset@L}{\eled@sections@@}%
3015 {\print@eledsectionL}%
3016 {}%
3017 \advance\numpagelinesL \@ne%
3018 %

```

When using shiftedpstarts option, a `\l@dlleftbox` with a null height is not printed. That means we do not insert blank lines at the end of a left chunk lower than the corresponding right chunk. However, a `\l@dlleftbox` with a null height will advance the `\pagetotal` in any case. Because if we do not do this, the `\checkpageL` could let

\ifl@pagefull to false, and consequently a \@lopL equal to 1000 could be written in the numbered file, even if all the lines actually needed for the current page have been printed. l@dleftbox

```

3019         \ifshiftedpstarts%
3020             \ifdim\ht\l@dleftbox>0pt%
3021                 \parledgroup@correction@notespacing{L}%
3022                 \hb@xt@ \hsize{\ledstrutL\unhbox\l@dleftbox}%
3023             \else%
3024                 \xifinlist{\the\pstarts@typeset@L}{\eled@sections@%
}%
3025                 {\add@apparatusL}%
3026                 {}%
3027             \unless\ifadvancedshiftedpstarts%
3028                 \dimen0=\pagetotal%
3029                 \advance\dimen0 by \baselineskip%
3030                 \global\pagetotal=\dimen0%
3031             \else%
3032                 \ifnomaxlines%
3033                     \numdef{\@tmp}{\the\l@dpscL+1}%
3034                     \ifcsdef{minpage@pstart@\@tmp}{%
3035                         \ifnumless{\the\c@page}{\csuse{
minpage@pstart@\@tmp}}}%
3036                         {\dimen0=\pagetotal%
3037                         \advance\dimen0 by \baselineskip%
3038                         \global\pagetotal=\dimen0%
3039                         }%
3040                         {}%
3041                     }%
3042                 \fi%
3043             \fi%
3044         \fi%
3045     \else%
3046         \parledgroup@correction@notespacing{L}%
3047         \hb@xt@ \hsize{\ledstrutL\unhbox\l@dleftbox}%
3048     \fi%
3049 %

```

Perhaps we have to move to the next (left) box. Check if we have got all we can onto the page. If not, repeat for the next line. Check if we have to print the optional argument of the last pend. Check if the page is full. Check if the verse is split in two subsequent pages. Check there is any forced page breaks. Reset the verse skipnumber boolean

```

3050         \get@nextboxL%
3051         \global\l@dskipversenumberfalse%
3052         \ifprint@last@after@pendL%
3053             \csuse{after@pendL@\the\l@dpscL}%
3054             \global\csundef{after@pendL@\the\l@dpscL}%
3055         \fi%
3056         \checkpageL%
3057         \checkverseL%

```



```

3058         \checkpbL%
3059         \repeat%
3060 %

```

That (left) page has been filled. Output the number of real lines on the page — if the page break is because the page has been filled with lines, use the actual number, otherwise the page has been ended early in order to synchronise with the facing page so use an impossibly large number.

```

3061         \ifl@dpagfull%
3062         \@writelinesonpageL{\the\numpagelinesL}%
3063         \else%
3064         \@writelinesonpageL{1000}%
3065         \fi%
3066 %

```

Reset to zero the left-page line count, clear the page to get onto the facing (odd, right) page, and reinitialize the accumulated dimension of interline correction for notes in parallel ledgroup.

```

3067         \numpagelinesL \z@%
3068         \parledgroup@correction@notespacing@init%
3069         \clearl@dleftpage }%
3070 %

```

Now do the same for the right text.

```

3071         \checkpageR%
3072         \Rightrightpagehook%
3073         \l@duselanguage{\theledlanguageR}%
3074 {
3075         \loop\ifl@dsamepage%
3076         \set@sectcountR%
3077         \ifdefstring{\@eledsectnotoc}{R}{\ledsectnotoc}{}%
3078         \csuse{before@pstartR@the\l@dpscR}%
3079         \global\csundef{before@pstartR@the\l@dpscR}%
3080         \do@lineR%
3081         \xifinlist{\the\l@dpscR}{\eled@sectionsR@@}%
3082         {\print@eledsectionR}%
3083         {}%
3084         \advance\numpagelinesR \@ne%
3085         \ifshiftedpstarts%
3086         \ifdim\ht\l@dtrightbox>Opt%
3087         \parledgroup@correction@notespacing{R}%
3088         \hb@xt@ \hsize{\ledstrutR\unhbox\l@dtrightbox}%
3089         \else%
3090         \xifinlist{\the\l@dpscR}{\eled@sectionsR@@}%
3091         {\add@apparatusR}%
3092         {}%
3093         \unless\ifadvancedshiftedpstarts%
3094         \dimen0=\pagetotal%
3095         \advance\dimen0 by \baselineskip%
3096         \global\pagetotal=\dimen0%

```



```

3096             \else%
3097             \ifnomaxlines%
3098             \numdef{\@tmp}{\the\l@dpscR+1}%
3099             \ifcsdef{minpage@pstart@\@tmp}{%
3100             \ifnumless{\the\c@page}{\csuse{
minpage@pstart@\@tmp}}}%
3101             {\dimen0=\pagetotal%
3102             \advance\dimen0 by \baselineskip%
3103             \global\pagetotal=\dimen0%
3104             }%
3105             {}%
3106             }{}%
3107             \fi%
3108             \fi%
3109             \fi%
3110         \else%
3111         \parledgroup@correction@notespacing{R}%
3112         \hb@xt@ \hsize{\ledstrutR\unhbox\l@dtrightbox}%
3113         \fi%
3114         \get@nextboxR%
3115         \global\l@dskipversenumberRfalse%
3116         \ifprint@last@after@pendR%
3117         \csuse{after@pendR@\the\l@dpscR}%
3118         \global\csundef{after@pendR@\the\l@dpscR}%
3119         \fi%
3120         \checkpageR%
3121         \checkverseR%
3122         \checkpbR%
3123         \repeat%
3124         \ifl@dpagfull%
3125         \@writelinesonpageR{\the\numpagelinesR}%
3126         \else%
3127         \@writelinesonpageR{1000}%
3128         \fi%
3129         \numpagelinesR=\z@%
3130         \parledgroup@correction@notespacing@init%
3131 %

```

The page is full, so move onto the next (left, odd) page and repeat left text processing.

```

3132         \clearl@dtrightpage}%
3133 %

```

More to do? If there is we have to get the number of lines for the next pair of pages before starting to output them.

```

3134         \checkraw@text%
3135         \ifaraw@text%
3136         \getlinesfrompagelistL%
3137         \getlinesfrompagelistR%
3138         \l@dcalc@minoftwo{\@cs@linesonpageL}{\@cs@linesonpageR}%
3139         {\l@dminpagelines}%

```



```

3140     \fi%
3141     \repeat}%
3142 %

```

We have now output the text from all the chunks.

```

3143     \fi%
3144 %

```

Make sure that there are no inserts hanging around.

```

3145     \flush@notes%
3146     \flush@notesR%
3147     \endgroup%
3148 %

```

Zero counts ready for the next set of left/right text chunks. The boolean tests for stanza are switched to false.

```

3149     \global\l@dpscL=\z@%
3150     \global\l@dpscR=\z@%
3151     \global\l@dnumstartsL=\z@%
3152     \global\l@dnumstartsR=\z@%
3153     \global\instanzaLfalse%
3154     \global\instanzaRfalse%
3155     \global\inastanzaLfalse%
3156     \global\inastanzaRfalse%
3157     \global\l@dprintingpagesfalse%
3158 %

```

Check the consistency of `\edtext@later` and `\edtext@now`

```

3159     \ifnum\edtext@later=\edtext@now%
3160     \else%
3161         \led@error@edtext@later@now%
3162     \fi%
3163     \global\edtext@later=\z@%
3164     \global\edtext@now=\z@%
3165 %

```

Prevent final notes from overlapping the line number

```

3166     \finish@Pages@notes%
3167     \ignorespaces}}%
3168
3169
3170 %

```

XVII.3 Ensure all notes are printed at the end of parallel pages

`\finish@Pages@notes` This macro ensures that all long notes are printed at the end of `\Pages` typesetting, and that there are no more long notes left for the next pages.


```

3171 \newcommand{\finish@Pages@notes}{%
3172   \def\do##1{%
3173     %

```

First, declare footnote box if there was no previous declared. E.g. if familiar or critical notes were disabled by `reledmac`'s options.

```

3174   \ifnocritical{%
3175     \global\newnamebox{##1footins}%
3176   \fi
3177   \ifnofamiliar{%
3178     \global\newnamebox{footins##1}%
3179   \fi
3180 %

```

We must also restore the settings for the footnotes in case of using `onlyside` option.

```

3181   \restore@Xnotes@settings{##1}%
3182   \restore@notesX@settings{##1}%
3183 %

```

And now, add a `\newpage` if there is no more footnote to print.

```

3184   \ifvoid\csuse{##1footins}%
3185     \ifvoid\csuse{footins##1}\else%
3186       \newpage\null%
3187       \listbreak%
3188     \fi%
3189   \else%
3190     \newpage\null%
3191     \listbreak%
3192   \fi%
3193 }%
3194 \dolistloop{\@series}%
3195 }%
3196 %

```

XVII.4 Struts

`\ledstrutL` Struts inserted into left and right text lines.

```

\ledstrutR
3197 \newcommand*{\ledstrutL}{}
3198 \newcommand*{\ledstrutR}{}
3199
3200 %

```

XVII.5 Page clearing

`\cleartoevenpage` `\cleartoevenpage`, which is defined in the memoir class, is like `\clear(double)page` except that we end up on an even page. `\cleartol@devenpage` is similar except that it first checks to see if it is already on an empty page.


```

3201 \providecommand{\cleartoevenpage}[1][\@empty]{%
3202   \clearpage
3203   \ifodd\c@page\hbox{#1}\clearpage\fi}
3204
3205 \newcommand*\cleartol@devenpage{%
3206   \ifdim\pagetotal<\topskip% on an empty page
3207   \else
3208     \clearpage
3209     \Pages@mainmatter%
3210   \fi
3211   \ifodd\c@page%
3212     \ifprevpgnotnumbered%
3213       \addtocounter{par@page}{-1}%
3214     \fi%
3215     \ifdef{\prevpgstyle}{\thispagestyle{\prevpgstyle}}{}%
3216     \hbox{}\clearpage%
3217   \fi%
3218 }%
3219 %

```

`\clearl@dleftpage` and `\clearl@drighthouse` get us onto an odd and even page, respectively, checking that we end up on the subsequent page. Both commands use `\newpage` and not `\clearpage`. Because `\clearpage` prints all footnotes before the next page, even if it has to add new empty pages, while `\newpage` does not. And as we want notes started in the left page continue in the right page and *vice-versa*, we must use `\newpage` and not `\clearpage`.

```

3220 \newcommand*\clearl@dleftpage{%
3221   \ifdim\pagetotal=0pt\hbox{}\fi%
3222   \newpage%
3223   \insert@notes@for@onlyside%
3224   \ifodd\c@page\else
3225     \led@err@LeftOnRightPage
3226     \hbox{}\fi%
3227   \cleardoublepage
3228   \fi}
3229
3230 \newcommand*\clearl@drighthouse{%
3231   \ifdim\pagetotal=0pt\hbox{}\fi%
3232   \newpage%
3233   \insert@notes@for@onlyside%
3234   \ifodd\c@page
3235     \led@err@RightOnLeftPage
3236     \hbox{}\fi%
3237   \cleartoevenpage
3238   \fi}
3239
3240 %

```


XVII.6 Lines managing

`\getlinesfromparlistL` `\getlinesfromparlistL` gets the next entry from the `\linesinpar@listL` and puts it into `\@cs@linesinparL`; if the list is empty, it sets `\@cs@linesinparL` to 0. Similarly for `\getlinesfromparlistR`.

```

3241 \newcommand*\getlinesfromparlistL{%
3242   \ifx\linesinpar@listL\empty
3243     \gdef\@cs@linesinparL{0}%
3244   \else
3245     \gl@p\linesinpar@listL\to\@cs@linesinparL
3246   \fi}
3247 \newcommand*\getlinesfromparlistR{%
3248   \ifx\linesinpar@listR\empty
3249     \gdef\@cs@linesinparR{0}%
3250   \else
3251     \gl@p\linesinpar@listR\to\@cs@linesinparR
3252   \fi}
3253
3254 %

```

`\getlinesfrompagelistL` `\getlinesfrompagelistL` gets the next entry from the `\linesonpage@listL` and puts it into `\@cs@linesonpageL`; if the list is empty, it sets `\@cs@linesonpageL` to 1000. Similarly for `\getlinesfrompagelistR`.

```

3255 \newcommand*\getlinesfrompagelistL{%
3256   \ifx\linesonpage@listL\empty
3257     \gdef\@cs@linesonpageL{1000}%
3258   \else
3259     \gl@p\linesonpage@listL\to\@cs@linesonpageL
3260   \fi}
3261 \newcommand*\getlinesfrompagelistR{%
3262   \ifx\linesonpage@listR\empty
3263     \gdef\@cs@linesonpageR{1000}%
3264   \else
3265     \gl@p\linesonpage@listR\to\@cs@linesonpageR
3266   \fi}
3267
3268 %

```

`\@writelinesonpageL` `\@writelinesonpageL` These macros output the number of lines on a page to the section file in the form of `\@lopL` or `\@lopR` macros.

```

3269 \newcommand*\@writelinesonpageL{[1]{%
3270   \edef\next{\write\linenum@out{\string\@lopL{#1}}}%
3271   \next}
3272 \newcommand*\@writelinesonpageR{[1]{%
3273   \edef\next{\write\linenum@outR{\string\@lopR{#1}}}%
3274   \next}
3275
3276 %

```


`\l@dcalc@maxoftwo` `\l@dcalc@maxoftwo{⟨num⟩}{⟨num⟩}{⟨count⟩}` sets `⟨count⟩` to the maximum of the two `⟨num⟩`.

Similarly `\l@dcalc@minoftwo{⟨num⟩}{⟨num⟩}{⟨count⟩}` sets `⟨count⟩` to the minimum of the two `⟨num⟩`.

```

3277 \newcommand*{\l@dcalc@maxoftwo}[3]{%
3278   \ifnum #2>#1\relax
3279     #3=#2\relax
3280   \else
3281     #3=#1\relax
3282   \fi}
3283 \newcommand*{\l@dcalc@minoftwo}[3]{%
3284   \ifnum #2<#1\relax
3285     #3=#2\relax
3286   \else
3287     #3=#1\relax
3288   \fi}
3289
3290 %

```

XVII.7 Page break managing

`\ifl@dsamepage` `\checkpageL` tests if the space and lines already taken on the page by text and footnotes is less than the constraints. If so, then `\ifl@dpagfull` is set FALSE and `\l@dsamepagetrue` `\ifl@dsamepage` is set TRUE. If the page is spatially full then `\ifl@dpagfull` is set TRUE and `\ifl@dsamepage` is set FALSE. If it is not spatially full but the maximum number of lines have been output then both `\ifl@dpagfull` and `\ifl@dsamepage` are set FALSE.

```

\checkpageL
\checkpageR
3291 \newif\ifl@dsamepage
3292 \l@dsamepagetrue
3293 \newif\ifl@dpagfull
3294
3295 \newcommand*{\checkpageL}{%
3296   \l@dpagfulltrue
3297   \l@dsamepagetrue
3298   \check@goal
3299   \ifdim\pagetotal<\ledthegoal
3300     \ifnum\umpagelinesL<\l@dminpagelines
3301     \else
3302       \ifnomaxlines%
3303       \else%
3304         \l@dsamepagefalse%
3305         \l@dpagfullfalse%
3306       \fi%
3307     \fi
3308   \else
3309     \l@dsamepagefalse
3310     \l@dpagfulltrue

```



```

3311 \fi%
3312 \ifprint@last@after@pendL%
3313 \l@dpagfullfalse%
3314 \l@dsamepagefalse%
3315 \print@last@after@pendLfalse%
3316 \fi%
3317 }%
3318
3319 \newcommand*\checkpageR{%
3320 \l@dpagfulltrue
3321 \l@dsamepagetrue
3322 \check@goal
3323 \ifdim\pagetotal<\ledthegoal
3324 \ifnum\numpagelinesR<\l@dminpagelines
3325 \else
3326 \ifnomaxlines%
3327 \else%
3328 \l@dsamepagefalse%
3329 \l@dpagfullfalse%
3330 \fi%
3331 \fi
3332 \else
3333 \l@dsamepagefalse
3334 \l@dpagfulltrue
3335 \fi%
3336 \ifprint@last@after@pendR%
3337 \l@dpagfullfalse%
3338 \l@dsamepagefalse%
3339 \print@last@after@pendRfalse%
3340 \fi%
3341 }%
3342
3343 %

```

\checkpbL \checkpbL and \checkpbR are called after each line is printed, and after the page is checked. These commands correct page breaks depending on \ledpb and \lednopb.

```

3344 \newcommand{\checkpbL}{
3345 \IfStrEq{\led@pb@setting}{after}{
3346 \xifinlist{\the\absline@num}{\l@prev@pb}{\l@dpagfulltrue\
3347 \l@dsamepagefalse}{
3348 \xifinlist{\the\absline@num}{\l@prev@nopb}{\l@dpagfullfalse\
3349 \l@dsamepagetrue}{
3350 }{
3351 \IfStrEq{\led@pb@setting}{before}{
3352 \numdef{\next@absline}{\the\absline@num+1}
3353 \xifinlist{\next@absline}{\l@prev@pb}{\l@dpagfulltrue\
3354 \l@dsamepagefalse}{
3355 \xifinlist{\next@absline}{\l@prev@nopb}{\l@dpagfullfalse\
3356 \l@dsamepagetrue}{

```



```

3353 }{}
3354 }
3355
3356 \newcommand{\checkpbR}{
3357   \IfStrEq{\led@pb@setting}{after}{
3358     \xifinlist{\the\absline@numR}{\l@prev@pbR}{\l@dpagelltrue\
3359     l@dsamepagefalse}{
3360       \xifinlist{\the\absline@numR}{\l@prev@nopbR}{\l@dpagellfalse\
3361       l@dsamepagetrue}{
3362         }{}
3363       \IfStrEq{\led@pb@setting}{before}{
3364         \numdef{\next@abslineR}{\the\absline@numR+1}
3365         \xifinlist{\next@abslineR}{\l@prev@pbR}{\l@dpagelltrue\
3366         l@dsamepagefalse}{
3367           \xifinlist{\next@abslineR}{\l@prev@nopbR}{\l@dpagellfalse\
3368           l@dsamepagetrue}{
3369             }{}
3370           }{}
3371         }{}
3372       }
3373     }
3374   }

```

`\checkverseL` `\checkverseL` and `\checkverseR` are called after each line is printed. They prevent page break inside line of verse.

```

3368 \newcommand{\checkverseL}{%
3369   \ifinstanzaL%
3370     \iflednopbinverse%
3371       \ifinserthangingsymbol%
3372         \numgdef{\prev@abslineverse}{\the\absline@num-1}%
3373         \IfStrEq{\led@pb@setting}{after}{\lednopbnum{\prev@abslineverse}}{}%
3374         \IfStrEq{\led@pb@setting}{before}{%
3375           \ifnum\numpagelinesL<3%
3376             \ledpbnum{\prev@abslineverse}%
3377           \fi%
3378         }{}%
3379       \fi%
3380     \fi%
3381   \fi%
3382 }
3383 \newcommand{\checkverseR}{%
3384   \ifinstanzaR%
3385     \iflednopbinverse%
3386       \ifinserthangingsymbolR%
3387         \numgdef{\prev@abslineverse}{\the\absline@numR-1}%
3388         \IfStrEq{\led@pb@setting}{after}{\lednopbnumR{\prev@abslineverse}}{}%
3389         \IfStrEq{\led@pb@setting}{before}{%
3390           \ifnum\numpagelinesR<3%
3391             \ledpbnumR{\prev@abslineverse}%
3392           \fi%
3393         }{}%
3394       \fi%

```



```

3395 \fi%
3396 \fi%
3397 }
3398 %

```

\setgoalfraction \ledthegoal is the amount of space allowed to taken by text and footnotes on a page before a forced pagebreak. This can be controlled via \goalfraction. \ledthegoal is calculated via \checkgoal.

```

\checkgoal
3399 \newdimen\ledthegoal
3400 \ifshiftedpstarts
3401 \newcommand*{\@goalfraction}{0.95}
3402 \else
3403 \newcommand*{\@goalfraction}{0.9}
3404 \fi
3405
3406 \newcommand*{\checkgoal}{%
3407 \ledthegoal=\@goalfraction\pagegoal}
3408 \newcommand{\setgoalfraction}[1]{%
3409 \xdef\@goalfraction{#1}%
3410 }
3411 %

```

\ifwrittenlinesL Booleans for whether line data has been written to the section file.

```

\ifwrittenlinesL
3412 \newif\ifwrittenlinesL
3413 \newif\ifwrittenlinesR
3414
3415 %

```

XVII.8 Getting boxes content

\if@getnextbox The \if@getnextbox boolean is switched to true if we can get the next chunk in a page after finished previous chunk. That is:

- If we use the nosyncpstarts option, in any case
- If we do not use it, only when the number or real or blank line of the current chunk is equal or greater to the maximum number of line in the current pair of chunks.

```

3416 \newif\if@getnextbox%
3417 %

```

\get@nextboxL If the current box is not empty (i.e., still contains some lines) nothing is done. Otherwise
\get@nextboxR if and only if a synchronisation point is reached the next box is started.

```

3418 \newcommand*{\get@nextboxL}{%
3419 \ifvbox\namebox{1@dLcolrawbox\the\1@dpscl}% box is not empty
3420 %

```


The current box is not empty; do nothing.

```
3421 \else%                                box is empty
3422 %
```

The box is empty. By default, we can get the next box

```
3423 \@getnextboxtrue%Should be local, but be cautious
3424 %
```

But not when sufficient lines for this page have been generated (except when we don't do any synchronization whatsoever). output.

```
3425 \ifnum\usernamecount{1@dmaxlinesinpar\the\l@dpscl}>\@donetotallinesL
3426 \parledgroup@notes@endL%
3427 \unless\ifnosyncpstarts%
3428 \getnextboxfalse%
3429 %
```

If we use the nomaxlines option, we will start at new page, but we take count of the lines to be typeset for the actual right chunk on the right page, before starting new chunk on the left page.

```
3430 \ifnomaxlines%
3431 \ifdim\pagetotal<\ledthegoal%
3432 \numdef{\@tmp}{\l@dpscl+1}%
3433 \ifcsdef{afterlines@pstart@\@tmp R}{%
3434 \ifnumless{\numpagelinesL}{\csuse{afterlines@pstart@\@tmp R}}
3435 %
3436 {}%
3437 {\ifcsdef{minpage@pstart@\@tmp}%
3438 {\ifnumless{\the\c@page}{\csuse{minpage@pstart@\@tmp}}%
3439 {\ifnum\numpagelinesL=1@dminpagelines%
3440 \getnextboxtrue%
3441 \fi%
3442 }%
3443 {\@getnextboxtrue}}%
3444 }%
3445 }%
3446 {}%
3447 \fi%
3448 \fi%
3449 \fi%
3450 \else%
3451 \ifnomaxlines%
3452 \numdef{\@tmp}{\the\l@dpscl+1}%
3453 \ifcsdef{minpage@pstart@\@tmp}{%
3454 \ifnumless{\the\c@page}{\csuse{minpage@pstart@\@tmp}}%
3455 {\ifdimgreater{\pagetotal}{\ledthegoal}%
3456 {\@getnextboxtrue}%
3457 {\@getnextboxfalse}%
3458 }%
3459 }
```



```

3459         {\@getnextboxtrue}%
3460         }{}%
3461         \fi%
3462     \fi%
3463 %

```

Sufficient lines have been output.

```

3464     \if@getnextbox%
3465         \ifnum\usernamecount{1@dmaxlinesinpar\the\l@dpscl}=\@donetotallinesL
3466             \parledgroup@notes@endL
3467         \fi
3468         \ifwrittenlinesL\else
3469 %

```

Write out the number of lines done, and set the boolean so this is only done once.

```

3470         \@writelinesinparL
3471         \writtenlinesLtrue
3472     \fi
3473     \ifnum\l@dnumpestartsL>\l@dpscl
3474 %

```

There are still unprocessed boxes. Recalculate the maximum number of lines needed, and move onto the next box (by incrementing `\l@dpscl`). If needed, restart the line numbering.

```

3475         \writtenlinesLfalse
3476         \ifbypstart@
3477             \global\line@num=0%
3478             \resetprevline@%
3479         \fi
3480 % Add the content of the optional argument of the previous \protect\cs{pend
3481 }.
3482 % \begin{macrocode}
3483         \csuse{after@pendL@the\l@dpscl}%
3484         \global\csundef{after@pendL@the\l@dpscl}%
3485 %

```

Check the number of lines

```

3485         \l@dcalc@maxoftwo{\the\usernamecount{1@dmaxlinesinpar\the\l@dpscl}}%
3486         {\the\@donetotallinesL}%
3487         {\usernamecount{1@dmaxlinesinpar\the\l@dpscl}}}%
3488         \global\@donetotallinesL \z@
3489 %

```

Go to the next pstart

```

3490         \global\advance\l@dpscl \@ne
3491         \global\advance\pstarts@typeset@L\@ne%
3492         \global\pstartnumtrue%
3493         \restore@pstartL@pc%
3494 %

```


Add notes of parallel ledgroup.

```

3495     \parledgroup@notes@endL
3496     \parledgroup@correction@notespadding@final{L}
3497     \else
3498     %

3499     \print@last@after@pendLtrue%
3500     \fi
3501     \fi
3502     \fi}
3503     %

3504 \newcommand*{\get@nextboxR}{%
3505   \ifvbox\namebox{1@dRcolrawbox\the\l@dpscR}% box is not empty
3506   \else% box is empty
3507     \@getnextboxtrue%
3508     \ifnum\usenamecount{1@dmaxlinesinpar\the\l@dpscR}>\@donetotallinesR
3509       \parledgroup@notes@endR
3510       \unless\ifnosyncpstarts%
3511         \@getnextboxfalse%
3512         \ifnomaxlines%
3513           \ifdim\pagetotal<\ledthegoal%
3514             \numdef{\@tmp}{\l@dpscR+1}%
3515             \ifcsdef{afterlines@pstart@\@tmp L}{%
3516               \ifnumless{\numpagelinesL}{\csuse{afterlines@pstart@\@tmp L}}
3517             }%
3518             {\ifcsdef{minpage@pstart@\@tmp}%
3519               {\ifnumless{\the\c@page}{\csuse{minpage@pstart@\@tmp}}%
3520                 {\ifnum\numpagelinesR=\l@dminpagelines%
3521                   \@getnextboxtrue%
3522                   \fi%
3523                 }%
3524                 {\@getnextboxtrue}}}%
3525               {\@getnextboxtrue}%
3526             }%
3527           }%
3528           {}%
3529         \fi%
3530       \fi%
3531     \fi%
3532   \else%
3533     \ifnomaxlines%
3534       \numdef{\@tmp}{\the\l@dpscR+1}%
3535       \ifcsdef{minpage@pstart@\@tmp}{%
3536         \ifnumless{\the\c@page}{\csuse{minpage@pstart@\@tmp}}%
3537         {\ifdimgreater{\pagetotal}{\ledthegoal}%
3538           {\@getnextboxtrue}%
3539           {\@getnextboxfalse}%

```



```

3540         }%
3541         {\@getnextboxtrue}%
3542     }{}
3543     \fi%
3544 \fi%
3545 \if@getnextbox%
3546     \ifnum\usernamecount{1@dmaxlinesinpar\the\l@dpscR}=\@donetotallinesR
3547         \parledgroup@notes@endR
3548     \fi
3549     \ifwrittenlinesR\else
3550         \@writelinesinparR
3551         \writtenlinesRtrue
3552     \fi
3553     \ifnum\l@dnumpestartsR>\l@dpscR
3554         \writtenlinesRfalse
3555         \ifbypstart@R
3556             \unless\ifinstanzaR%
3557                 \global\line@numR=0%
3558                 \resetprevline@%
3559             \fi%
3560         \fi
3561         \csuse{after@pendR@\the\l@dpscR}%
3562         \global\csundef{after@pendR@\the\l@dpscR}%
3563         \l@dcalc@maxoftwo{\the\usernamecount{1@dmaxlinesinpar\the\l@dpscR}}%
3564             {\the\@donetotallinesR}%
3565             {\usernamecount{1@dmaxlinesinpar\the\l@dpscR}}%
3566         \global\@donetotallinesR \z@
3567         \global\advance\l@dpscR \@ne
3568         \global\pstartnumRtrue%
3569         \restore@pstartR@pc%
3570         \parledgroup@notes@endR
3571         \parledgroup@correction@notes@spacing@final{R}
3572     \else
3573         \print@last@after@pendRtrue%
3574     \fi
3575 \fi
3576 \fi}
3577 %
3578 %

```

XVIII The mainmatter option of \Pages

The optional argument of \Pages could be equal to mainmatter. In this case the boolean \ifPages@mainmatter is set to true, and some special things are done in \Pages@mainmatter, called by \cleartol@devenpage.

```

\ifPages@mainmatter79 \newif\ifPages@mainmatter
\Pages@mainmatter80 \newcommand{\Pages@mainmatter}{%

```



```

3581 \ifPages@mainmatter%
3582 \pagenumbering{arabic}%
3583 \addtocounter{page}{1}%
3584 \addtocounter{par@page}{-1}%
3585 \patchcmd{\thepage}{page}{par@page}{}{}%
3586 \fi%
3587 }
3588 %

```

XIX Sections' titles' commands

As switching from left to right pages does not clear the page since v1.13.0, but only creates new pages, no `\vbox{}` is inserted, and consequently parallel chapters are misaligned.

So we patch the `\chapter` command in order to prevent this problem.

```

\chapter \pretocmd{\chapter}{%
3590 \ifl@printingpages%
3591 \vbox{}%
3592 \fi%
3593 }%
3594 {}%
3595 {}%
3596 %

```

`\eledsectnotoc` `\eledsectnotoc` just saves its content `\@eledsectnotoc`, which will be tested where sectioning commands will be printed.

```

3597 \newcommand{\eledsectnotoc}[1]{\xdef\@eledsectnotoc{#1}}
3598 \eledsectnotoc{R}
3599 %

```

`\eledsectmark` `\eledsectmark` just saves its content `\@eledsectmark`, which will be tested where sectioning commands will be printed.

```

3600 \newcommand{\eledsectmark}[1]{\xdef\@eledsectmark{#1}}
3601 \eledsectmark{L}
3602 %

```

`\eledsection@correcting@skip` Because the vertical correction needed after inserting a title in parallel depends whether we are in parallel columns or parallel pages, we stock its length in `\eledsection@correcting@skip`.

```

3603 \newskip\eledsection@correcting@skip
3604 %

```

`\eled@sectioningR@out` We save the sectioning commands of the right side in the `\eled@sectioningR@out` file.

```

3605 \newwrite\eled@sectioningR@out
3606 %

```


XX Page break/no page break, depending on the specific line

We need to adapt the macro of the homonym section of eledmac to eledpar.

`\prev@pbR` The `\l@prev@pbR` macro is a etoolbox's list, which contains the lines in which page breaks occur (before or after). The `\l@prev@nopbR` macro is a etoolbox list, which contains the lines in which NO page breaks occur (before or after).

```
3607 \def\l@prev@pbR{}
3608 \def\l@prev@nopbR{}
3609 %
```

`\ledpbR` The `\ledpbR` macro writes the call to `\led@pbR` in line-list file. The `\ledpbnumR` macro writes the call to `\led@pbnumR` in line-list file. The `\lednopbR` macro writes the call to `\led@nopbR` in line-list file. The `\lednopbnumR` macro writes the call to `\led@nopbnumR` in line-list file.

```
3610 \newcommand{\ledpbR}{\write\linenum@outR{\string\led@pbR}}
3611 \newcommand{\ledpbnumR}[1]{\write\linenum@outR{\string\led@pbnumR{#1}}}
3612 \newcommand{\lednopbR}{\write\linenum@outR{\string\led@nopbR}}
3613 \newcommand{\lednopbnumR}[1]{\write\linenum@outR{\string\led@nopbnumR{#1}}}
3614 %
```

`\led@pbR` The `\led@pbR` add the absolute line number in the `\prev@pbR` list. The `\led@pbnumR` add the argument in the `\prev@pbR` list. The `\led@nopbR` add the absolute line number in the `\prev@nopbR` list. The `\led@nopbnumR` add the argument in the `\prev@nopbR` list.

```
3615 \newcommand{\led@pbR}{\listxadd{\l@prev@pbR}{\the\absline@numR}}
3616 \newcommand{\led@pbnumR}[1]{\listxadd{\l@prev@pbR}{#1}}
3617 \newcommand{\led@nopbR}{\listxadd{\l@prev@nopbR}{\the\absline@numR}}
3618 \newcommand{\led@nopbnumR}[1]{\listxadd{\l@prev@nopbR}{#1}}
3619 %
```

XXI Parallel ledgroup

`\parledgroup@` The marks `\parledgroup@` contains information about the beginnings and endings of notes in a parallel ledgroup. `\parledgroup@series` contains the footnote series. `\parledgroup@type` contains the type of the footnote: critical (Xfootnote) or familiar (footnoteX).

```
3620 \newmarks\parledgroup@
3621 \newmarks\parledgroup@series
3622 \newmarks\parledgroup@type
3623 %
```


`\parledgroup@notes@startL` `\parledgroup@notes@startL` and `\parledgroup@notes@startR` are used to mark the beginning of a note series in a parallel ledgroup.

```

3624 \newcommand{\parledgroup@notes@startL}{%
3625   \ifnum\usernamecount{1@maxlinesinpar\the\1@dpscL}>0%
3626   \IfStrEq{\splitfirstmarks\parledgroup@type}{footnoteX}{\csuse{
3627     bhooknoteX@\splitfirstmarks\parledgroup@series}}{X}%
3628   \IfStrEq{\splitfirstmarks\parledgroup@type}{Xfootnote}{\csuse{
3629     bhookXnote@\splitfirstmarks\parledgroup@series}}{X}%
3630   \fi%
3631   \global\ledgroupnotesL@true%
3632   \insert@noterule@ledgroup{L}%
3633 }
3634 \newcommand{\parledgroup@notes@startR}{%
3635   \ifnum\usernamecount{1@maxlinesinpar\the\1@dpscR}>0%
3636   \IfStrEq{\splitfirstmarks\parledgroup@type}{footnoteX}{\csuse{
3637     bhooknoteX@\splitfirstmarks\parledgroup@series}}{X}%
3638   \IfStrEq{\splitfirstmarks\parledgroup@type}{Xfootnote}{\csuse{
3639     bhookXnote@\splitfirstmarks\parledgroup@series}}{X}%
3640   \fi%
3641   \global\ledgroupnotesR@true%
3642   \insert@noterule@ledgroup{R}%
3643 }
3644 %

```

`\parledgroup@notes@startL` `\parledgroup@notes@endL` and `\parledgroup@notes@endR` are used to mark the end of a note series in a parallel ledgroup.

```

3641 \newcommand{\parledgroup@notes@endL}{%
3642   \global\ledgroupnotesL@false%
3643 }
3644 \newcommand{\parledgroup@notes@endR}{%
3645   \global\ledgroupnotesR@false%
3646 }
3647 %

```

`\insert@noterule@ledgroup` A `\vskip` is not used when the boxes are constructed. So we insert it before ledgroup note series when parallel lines are constructed. This is the goal of `\insert@noterule@ledgroup`

```

3648 \newcommand{\insert@noterule@ledgroup}[1]{
3649   \IfStrEq{\splitbotmarks\parledgroup@}{begin}{%
3650     \IfStrEq{\splitbotmarks\parledgroup@type}{Xfootnote}{
3651       \csuse{ifledgroupnotes#1@}
3652       \vskip\skip\csuse{mp\splitbotmarks\parledgroup@series footins}
3653       \csuse{\splitbotmarks\parledgroup@series footnoterule}
3654     }
3655   }
3656   {}
3657   \IfStrEq{\splitbotmarks\parledgroup@type}{Xfootnote}{
3658     \csuse{ifledgroupnotes#1@}

```



```

3659         \vskip\skip\csuse{mpfootins\splitbotmarks\parledgroup@series}
3660         \csuse{footnoterule\splitbotmarks\parledgroup@series}
3661         \fi
3662     }{}
3663 }
3664 {}
3665 }
3666 %

```

\@parledgroupnotespacing \@parledgroupnotespacing can be redefined by the user to change the interline spacing of ledgroup notes.

```

3667 \newcommand{\setparledgroupnotespacing}[1]{\gdef\@parledgroupnotespacing
3668   {#1}}
3669 \newcommand{\@parledgroupnotespacing}{}
3670 %

```

up@notespacing@correction \parledgroup@notespacing@correction is the difference between a normal line skip and a line skip in a note. It is set by \parledgroup@notespacing@set@correction, called at the beginning of \Pages.

```

3670 \dimdef{\parledgroup@notespacing@correction}{0pt}
3671 \newcommand{\parledgroup@notespacing@set@correction}{%
3672   {\@getfirstseries\csuse{Xnotefontsize@\@firstseries}%We suppose all the
3673   series has the same footnote size setup
3674   \@parledgroupnotespacing\dimgdef{\temp@spacing}{\baselineskip}}%
3675   \dimgdef{\parledgroup@notespacing@correction}{\baselineskip-\temp@spacing}
3676   }%
3677 }
3678 %

```

rection@notespacing@init \parledgroup@correction@notespacing@init sets the value of accumulated corrections of note spacing to 0 pt. It is called at the beginning of each pages AND at the end of each ledgroup.

```

3677 \newcommand{\parledgroup@correction@notespacing@init}{
3678   \dimdef{\parledgroup@notespacing@correction@accumulated}{0pt}
3679   \dimdef{\parledgroup@notespacing@correction@modulo}{0pt}
3680 }
3681 \parledgroup@correction@notespacing@init
3682 %

```

rection@notespacing@final \parledgroup@correction@notespacing@final adds the total space deleted because of correction for notes, in a parallel ledgroup. It also adds the space needed by the other side spaces between note rules and notes. It is called after the print of each pstart/pend.

```

3683 \newcommand{\parledgroup@correction@notespacing@final}[1]{
3684   \ifparledgroup

```



```

3685 \vspace{\parledgroup@notespacing@correction@accumulated}
3686 \parledgroup@correction@notespacing@init%
3687 \ifstrequal{#1}{L}{
3688   \numdef{\@checking}{\the\l@dpscl-1}
3689 }{
3690   \numdef{\@checking}{\the\l@dpscr-1}
3691 }
3692 \dimdef{\@beforenotes@current@diff}{\csuse{\parledgroup@beforenotes@
3693   \@checking L}-\csuse{\parledgroup@beforenotes@\@checking R}}%
3694 \ifstrequal{#1}{L}%
3695   {% Left
3696   \ifdimgreater{\@beforenotes@current@diff}{0pt}{\vspace{-\
3697     \@beforenotes@current@diff}}%
3698   }%
3699   {% Right
3700   \ifdimgreater{\@beforenotes@current@diff}{0pt}{\vspace{\
3701     \@beforenotes@current@diff}}%
3702   }%
3703   \fi
3704 }
3705 %

```

`\parledgroup@correction@notespacing`

`\parledgroup@correction@notespacing` is used before each printed line. If it is a line of notes in parallel ledgroup, the space `\parledgroup@notespacing@correction` is decreased, to make interline space correct. The decreased space is added to `\parledgroup@notespacing` and `\parledgroup@notespacing@correction@modulo`. If `\parledgroup@notespacing@correction` is equal or greater than `\baselineskip`:

- It is decreased by `\baselineskip`.
- The total of line number in the current page is decreased by one.

For example, suppose an normal interline of 24 pt and interline for note of 12 pt. That means that the two lines of notes take the place of one normal line. For every two lines of notes, the line total for the current place is decreased by one.

```

3703 \newcommand{\parledgroup@correction@notespacing}[1]{%
3704   \csuse{ifledgroupnotes#1@}%
3705   \vspace{-\parledgroup@notespacing@correction}%
3706   \dimdef{\parledgroup@notespacing@correction@accumulated}{\
3707     parledgroup@notespacing@correction@accumulated+\
3708     parledgroup@notespacing@correction}%
3709   \dimdef{\parledgroup@notespacing@correction@modulo}{\
3710     parledgroup@notespacing@correction@modulo+\
3711     parledgroup@notespacing@correction}%
3712   \ifdimless{\parledgroup@notespacing@correction@modulo}{\baselineskip}
3713   {%
3714     \advance\numpagelinesL -\@one%
3715     \dimdef{\parledgroup@notespacing@correction@modulo}{\
3716       parledgroup@notespacing@correction@modulo-\baselineskip}%
3717   }% mean greater than equal

```



```

3711 \fi%
3712 }
3713 %

```

`\parledgroup@beforenotesL` `\parledgroup@beforenotesL` and `\parledgroup@beforenotesR` store the total of space before notes in the current parallel ledgroup.

```

3714 \dimdef\parledgroup@beforenotesL{0pt}
3715 \dimdef\parledgroup@beforenotesR{0pt}
3716 %

```

`\parledgroup@beforenotes@save` The macro `\parledgroup@beforenotes@save` dumps the space before notes of the current parallel ledgroup in a macro named with the current pstart number.

```

3717 \newcommand{\parledgroup@beforenotes@save}[1]{
3718   \ifparledgroup
3719     \csdimgdef{@parledgroup@beforenotes@the\csuse{1@dnumstarts#1}#1}{\
3720     \csdimgdef{@parledgroup@beforenotes#1}{0pt}
3721   \fi
3722 }
3723 %

```

XXII Compatibility with eledmac

Here, we define some command for the eledmac-compat option.

```

3724 \ifeledmaccompat%
3725
3726
3727 \unless\ifnocritical@
3728 \let\onlyXside\Xonlyside
3729 \fi
3730 \fi
3731 %

```

XXIII The End

</code>

Appendix A Some things to do when changing version

A.1 Migration to eledpar 1.4.3

Version 1.4.3 corrects a bug added in version 0.12, which made hanging verse always flush right, despite the value of the first element in the `\setstanzaindent` command.

However, if you want to return to automatic flushright margins for verses with hanging indents, you have to redefine the `\hangingsymbol` command.

```
\renewcommand{\hangingsymbol}{\protect\hfill}
```

See the following two examples:

With standard `\hangingsymbol`:

A very long verse should sometimes be hanging. The position of the hanging verse is fixed.

With the modification of the `hangingsymbol`:

A very long verse should sometimes be hanging. And we can see that a hanging verse is flush right.

A.2 Migration from eledpar to reledpar

As for migration from eledmac to reledmac:

- One option has been removed because it is deprecated.
- Some of the customizations previously made by `\renewcommand` have been replaced with commands.
- Some command names have been changed in order to have a more logical and uniform pattern.

A.2.1 Deprecated options

The `shiftedverses` option has been removed. Use the general `shiftedpstart` option instead.

A.2.2 `\renewcommand` replaced with command

Many uses of `\renewcommand` have been replaced with uses of specific commands. Please read the handbook about these particular commands.

<i>Deprecated <code>\renewcommand</code></i>	<i>Replaced with</i>
<code>\goalfraction</code>	<code>\setgoalfraction</code>
<code>\parledgroupnotespacing</code>	<code>\setparledgroupnotespacing</code>
<code>\Rlineflag</code>	<code>\setRlineflag</code>

A.2.3 Commands the names of which have changed

In order to ease the migration from eledpar to reledpar, you may load reledmac with eledmac-compat option. However, it is advised to change the command names.

<i>Old command</i>	<i>New command</i>
<code>\onlyXside</code>	<code>\Xonlyside</code>

A.3 Migration to reledpar 2.2.0

The *astanza* can take now an option argument. Consequently, if the first line of verse in a *astanza* environment starts with brackets [], you must precede them with a `\relax`. If you do not do it, the content of the brackets will be considered as an optional argument of the *astanza* environment.

A.4 Migration to reledpar 2.3.0

The line number style (alphabetic, numeric, etc.) for notes on the right-hand side are now defined by the value you set to `\linenumberstyleR` or `\linenumberstyle*`, and not by the value you set to `\linenumberstyle`, which is kept for left side.

The same is true for sub-line number styles and `\sublinenumberstyleR` or `\sublinenumberstyle*`, which are distinct from `\sublinenumberstyle`.

Consequently, if you have changed line number representation in footnotes with `\linenumberstyle` and `\sublinenumberstyle`, check your settings for these control sequences.

A.5 Migration to reledpar 2.4.0

We have fixed a bug which misaligned left and right sides when a line contained a dotted letter.

We have tested and saw no problem with this correction, but if you see a difference in alignment between version 2.3.0 and 2.4.0, please contact us.

A.6 Migration to reledpar 2.5.0

If you use either `\stanza` or *astanza* environment, please read A.12 p. 407.

A.7 Migration to reledpar 2.6.0

`\printlinenumR` was deleted. Use `\Xlineflag` instead.

A.8 Migration to reledpar 2.6.1

If you use *perpage* package to control footnote numbering, please read the handbook on 6.3.3 p. 15.

A.9 Migration to reledpar 2.14.0

The `\linenumberlist` command is reserved for the left side. For the equivalent feature on the right side, define `\linenumberlistR`.

A.10 Migration to reledpar 2.14.1

The execution of the code sent to `\doinsidelineLhook` and `\doinsidelineRhook` has been moved to a place where `\markboth` can work.

Normally, it should not interfere with your prior use of `\doinsidelineLhook` and `\doinsidelineRhook`.

Please contact us if that causes problems.

A.11 Migration to reledpar v. 2.17.2

When changing the `\Lcolwidth` and `\Rcolwidth` length within an `pages` environment, the contents were aligned to the right. Now, they are aligned to the left. Please contact us if you need to retain the older behaviour.

References

- [LW90] John Lavagnino and Dominik Wujastyk. ‘An overview of edmac: a PLAIN TeX format for critical editions’. *TUGboat*, **11**, 4, pp. 623–643, November 1990. (Code available from CTAN in `macros/plain/contrib/edmac`)
- [Wil02] Peter Wilson. *The memoir class for configurable typesetting*. November 2002. (Available from CTAN in `macros/latex/contrib/memoir`)
- [Wil04] Peter Wilson and Maïeul Rouquette. *eledmac A presumptuous attempt to port EDMAC, TABMAC and EDSTANZA to LaTeX*. December 2004. (Available from CTAN in `macros/latex/contrib/eledmac`)

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<code>\pendR</code>	1
<code>\prev@nopbR</code>	1
<code>\prev@pbR</code>	1
<code>\prevpgstyle</code>	1
<code>\print@columnseparator</code>	1
<code>\print@eledsectionL</code>	1
<code>\print@eledsectionR</code>	1
<code>\print@leftcolumn</code>	1
<code>\print@lineL</code>	1
<code>\print@lineR</code>	1
<code>\print@notesX@forpages</code>	1
<code>\print@rightcolumn</code>	1
<code>\print@Xnotes@forpages</code>	1
<code>\pstart</code>	20
<code>\pstartL</code>	1
<code>\pstartR</code>	1

R

<code>\Rcolwidth</code>	1, 9, 12
<code>\read@linelist</code>	1
<code>\reledpar@error</code>	1
<code>\reledpar@warning</code>	1
<code>\restore@notesX@settings</code>	1
<code>\restore@pstartL@pc</code>	1
<code>\restore@pstartR@pc</code>	1
<code>\restore@Xnotes@settings</code>	1
<code>\resumenumberingR</code>	1
<code>\rightlinenumR</code>	1
<code>\Rightpagehook</code>	1, 21
<code>\rightpstartnumL</code>	1
<code>\rightpstartnumR</code>	1
<code>Rightside (environment)</code>	17
<code>\Rightsidehook</code>	1
<code>\Rightsidehookend</code>	1
<code>\Rlineflag</code>	1

S

<code>\save@familiarfootnote@number</code>	1
<code>\save@section@number</code>	1
<code>\section@numR</code>	1
<code>\selectlanguage</code>	1
<code>\set@line</code>	1
<code>\set@line@action</code>	1
<code>\set@sectcountR</code>	1
<code>\setgoalfraction</code>	1, 14
<code>\sethangingsymbol</code>	22
<code>\setline</code>	1
<code>\setlinenum</code>	1
<code>\setnamebox</code>	1
<code>\setnotepositionliketwocolumns@C</code>	1

<code>\setnotepositionliketwocolumns@L</code>	1
<code>\setnotepositionliketwocolumns@R</code>	1
<code>\setpositionliketwocolumns@C</code>	1
<code>\setpositionliketwocolumns@L</code>	1
<code>\setpositionliketwocolumns@R</code>	1
<code>\setRlineflag</code>	20
<code>\setwidthliketwocolumns</code>	1
<code>\sidenote@marginR</code>	1
<code>\sidenotemargin*</code>	1
<code>\sidenotemarginR</code>	1
<code>\skip@lockoff</code>	1
<code>\skipnumbering</code>	1, 18
<code>\startlock</code>	1
<code>\startsub</code>	1
<code>\sub@action</code>	1
<code>\subline@numR</code>	1
<code>\sublinenumberstyle*</code>	1, 19
<code>\sublinenumberstyleR</code>	1, 19
<code>\sublinenumincrement</code>	1, 18
<code>\sublinenumincrement*</code>	1, 19
<code>\sublinenumincrementR</code>	1, 19
<code>\sublinenumrepR</code>	1

T

<code>\theledlanguageL</code>	1
<code>\theledlanguageR</code>	1
<code>\thepstartL</code>	18
<code>\thepstartR</code>	18
<code>\thestanzaL</code>	1, 22
<code>\thestanzaR</code>	1, 22
<code>\this@section@last@page@numR</code>	1
<code>\this@section@page@numR</code>	1

U

<code>\unhnamebox</code>	1
<code>\unvnamebox</code>	1
<code>\usenamecount</code>	1

W

<code>\widthliketwocolumns</code>	10
---	----

X

<code>\Xendlineflag</code>	17
<code>\Xlineflag</code>	17
<code>\Xnoteswidthliketwocolumns</code>	10
<code>\Xonlyside</code>	16

Change History

v0.1.0.	
General: First public release	1
v0.2.0.	
\Columns: Added \l@dchecklang and \l@duselanguage to \Columns	101
\Pages: Added \l@duselanguage to \Pages	114
General: Added section of babel related code	95
Fix babel problems	1
v0.3.0.	
\Pages: Added \ledstrutL to \Pages	114
Added \ledstrutR to \Pages	116
\Rightsidehookend: Added \Leftsidehook, \Leftsidehookend, \Rightsidehook and \Rightsidehookend	60
\affixline@numR: Changed \affixline@numR to match new eledmac	77
\do@actions@nextR: Used \do@actions@fixedcode in \do@actionsR	75
\do@lineL: Added \do@lineLhook to \do@lineL	68
Simplified \do@lineL by using macros for some common code	68
\do@lineR: Changed \do@lineR similarly to \do@lineL	72
\flag@end: Removed extraneous spaces from \flag@end	52
\ifledRcol: Moved \ifl@dpairing to eledmac	28
\ifpst@rtedR: Moved \ifpst@rtedL to eledmac	33
\l@dlinenumR: Simplified \leftlinenumR and \rightlinenumR by introducing \l@dlinenumR	42
\l@dnumpstartsR: Moved \l@dnumpstartsL to eledmac	97
\ledstrutR: Added \ledtrutL and \ledstrutR	119
\sublinenumrepR: Added \linenumrepR and \sublinenumrepR	41
General: Added \do@lineLhook and \do@lineRhook	71
Added hooks into Leftside environment	59
Reorganize for ledarab	1
v0.3.a.	
\line@marginR: Do not just set \line@marginR in \linenummargin	38
General: Minor \linenummargin fix	1
v0.3.b.	
\Pages: Added \l@dminpagelines calculation for succeeding page pairs	117
General: Improved parallel page balancing	1
v0.3.c.	
General: Compatibilty with Polyglossia	1
v0.4.0.	
General: No more ledparpatch. All patches are now in the main file.	1
v0.5.0.	
General: Corrections about \section and other titles in numbered sections	1
v0.6.0.	
General: Be able to us \chapter in parallel pages.	1
v0.7.0.	
General: Option ‘shiftedverses’ which make there is no blank between two parallel verses with inequal length.	1
v0.8.0.	
General: Possibility to have a symbol on each hanging of verses, like in the french typography. Redefine the commande \hangingsymbol to define the character.	1

v0.9.0.	
\ifledRcol: Moved \iflledRcol and \ifnumberingR to eledmac	28
General: Possibility to number \pstart.	18
Possibility to number the pstart with the commands \numberpstarttrue.	1
v0.9.1.	
General: The numbering of the pstarts restarts on each \beginnumbering.	1
v0.9.2.	
General: Debug : with \Columns, the hanging indentation now runs on the left columns and the hanging symbol is shown only when \stanza is used.	1
v0.9.3.	
General: \thepstartL and \thepstartR use now \bfseries and not \bf, which is deprecated and makes conflicts with memoir class.	1
v0.10.0.	
General: \edlabel commands on the right side are now correctly indicated.	1
\edlabel commands which start a paragraph are now put in the right place.	1
v0.11.0.	
\Columns: Line numbering by pstart.	102
\affixline@numR: Changed \affixline@numR to allow to disable line numbering (like in eledmac 0.15).	77
\get@nextboxR: Change \get@nextboxL and \get@nextboxR to allow to disable line numbering (like in eledmac 0.15).	125
Pstart number can be printed in side	127
\inserthangingsymbolR: Prevent the column separator for hanging verse from shifting	92
General: Change \do@lineL and \do@lineR to allow line numbering by pstart (like in eledmac 0.15).	68
Lineation can be by pstart (like in eledmac 0.15).	37
New management of hangingsymbol insertion, preventing undesirable insertions.	92
v0.12.0.	
General: New management of hangingsymbol insertion, preventing undesirable insertions.	92
v1.0.0.	
General: Compatibility with eledmac. Change name to eledpar.	1
Debug in lineation by pstart	37
v1.0.1.	
General: Correction on \numberonlyfirstinline with lineation by pstart or by page.	1
v1.1.0.	
\pstartR: Add \labelpstarttrue (from eledmac).	61
General: Shiftedverses becomes shiftedpstarts.	1
v1.1.1.	
\pstartR: Correct \pstartR bug introduced by 1.1.	61
v1.1.2.	
\affixside@noteR: Remove spurious space between line number and line content	91
v1.2.0.	
General: Support for \led<section> commands in parallel texts.	1
v1.2.1.	
\set@sectcountR: For the right section, the counter is defined only once.	35
v1.3.0.	
\edtext: Manage RTL language.	53
v1.3.2.	
General: Debug with some classes.	1

v1.3.3.	
General: Debugging the left notes of the right column.	91
v1.3.4.	
General: Allow use of commands in sidenotes, as introduced by eledmac 1.0.	91
v1.4.0.	
General: Added \do@insidelineLhook and \do@insidelineRhook	71
v1.4.1.	
General: Enable the use of stanzaindentsrepetition within astanza environment.	93
v1.4.3.	
\inserthangingsymbolR: Hanging verse is no longer automatically flush right.	92
\pendL: Spurious spaces in \pendL.	65
\pendR: Spurious spaces in \pendR.	66
\pstartR: Spurious spaces in \pstartL and \pstartR.	61
General: Corrects a false hanging verse when a verse is exactly the length of a line.	1
v1.5.0.	
\sublinenumincrement*: Add starred version of \firstlinenum,	
\linenumincrement, \firstsublinenum, \sublinenumincrement to change	
both Left and Rightside.	40
General: Add, as in eledmac, features to manage page breaks.	1
v1.6.0.	
General: Add tool and documentation for parallel ledgroups	23
v1.7.0.	
General: Add, as in eledmac, features to make crossrefs with pstart numbers.	1
v1.8.0.	
\Columns: Modify \Columns to enable to add section's title.	100
Suppress \l@dchecklang from \Columns.	101
\Pages: Modify \Pages to enable to add section's title.	112
\l@dchecklang: Suppress \l@dchecklang which did not work and was not logical,	
because both columns could have the same language but not the main language of	
the document.	95
\pendL: As in eledmac, \pendL can have an optional argument.	65
\pendR: As in eledmac, \pendR can have an optional argument.	66
\print@columnseparator: Move some code of \Columns to	
\print@columnseparator.	103
\pstartR: As in eledmac, \pendL and \pendR can have an optional argument.	61
\sidenotemarginR: \sidenotemargin is now directly defined in eledmac to be able	
to manage eledpar.	90
Add \sidenotemargin*	90
\theledlanguageR: Correct left/right language setting with polyglossia.	96
General: \beginnumbering is defined only on eledmac, not on eledpar.	33
\l@dlsnote, \l@drsnote and \l@dcnote defined only one time, in eledmac.	91
Add \beforecolumnseparator and \aftercolumnseparator.	9
Add \columnspostion.	9
Add, as in eledmac, new system of sectioning commands.	1
Add, as in eledmac, option to insert something after \pends / verses.	1
Add, as in eledmac, option to insert something between \pstarts / verse.	1
Change \do@lineR and \do@lineR to allow new sectioning commands.	68
Compatibility with musixtex.	1
Debug eledmac sectioning command after using \resumenumbering.	1
New sectioning commands, as in eledmac.	24

Suppress <code>\ifl@dsamelang</code> which did not work and was not logical, because both columns could have the same language but not the main language of the document.	95
v1.8.1.	
<code>\do@lineL</code> : Fix a bug with critical notes at the beginning of a page, (maybe added by v1.8.0) (?).	68
<code>\do@lineR</code> : Fix a bug with critical notes at the beginning of a page, added by v1.8.0 (?).	72
v1.8.2.	
<code>\flag@end</code> : <code>\flag@start</code> and <code>\flag@end</code> are now defined only one time for <code>eledmac</code> and <code>eledpar</code>	52
<code>\lineation*</code> : Add <code>\lineation*</code>	38
<code>\reledpar@error</code> : Errors specific to <code>eledpar</code> send to <code>eledpar</code> handbook	28
General: Debug <code>\eledxxx</code> with some paper sizes	1
Debug left and side note (bugs added by 1.8.0)	1
v1.8.3.	
<code>\Pages</code> : Debug blank pages when using optional argument in the last <code>\pend</code> .	112
<code>\doinsidelineRhook</code> : Added <code>\dolineLhook</code> , <code>\dolineRhook</code> , <code>\doinsidelineLhook</code> and <code>\doinsidelineRhook</code>	71
<code>\pausenumbering@page@numR</code> : Debug <code>\resumenumberingR</code>	36
General: Add <code>\noeledxxx</code> , as in <code>eledmac</code>	1
v1.9.0.	
<code>\ifwidthliketwocolumns</code> : Added <code>widthliketwocolumns</code> option	27
<code>\theledlanguageR</code> : Debug left/right language switching with <code>polyglossia</code> . Do not write in .aux file when setting left/right lines.	96
General: Add <code>\AtBeginPairs</code> macro.	9
Compatibility with <code>\Xnoteswidthliketwocolumns</code> and <code>\notesXwidthliketwocolumns</code>	1
v1.9.1.	
<code>\ifledRcol</code> : Moved <code>\ifl@dpaging</code> to <code>eledmac</code>	28
v1.10.0.	
<code>\Pages</code> : Debug wrong pages splitting when no optional argument is used in last <code>\pend</code> (bug was added in v1.8.3).	112
Debug wrong parallel pages synchronization when an <code>\edtext</code> falls across two pages.	112
General: Compatibility with <code>\AtEveryPstart</code> and <code>\AtEveryPend</code>	1
Restore critical notes in <code>\eledsection</code> in parallel columns (this bug was added in 1.8.2).	1
v1.10.1.	
<code>\next@line@list@stuffR</code> : Revert modification of 1.4.2, which makes bugs with numbering. Leave vertical mode to solve spurious space before <code>minipage</code> .	51
v1.11.0.	
<code>\edtext</code> : <code>\critext</code> and <code>\edtext</code> are now defined only in <code>eledmac</code> .	53
General: Compatibility of standard footnotes with some <code>biblatex</code> styles.	1
v1.12.0.	
<code>\Columns</code> : Add <code>\l@dprintingcolumnstrue</code>	100
<code>\Pages</code> : Add <code>\l@dprintingpagestrue</code>	112
<code>\edlabel</code> : <code>\edlabel</code> and <code>\edindex</code> works now with <code>hyperref</code> when using <code>eledpar</code> .	89
<code>\edlabel</code> is now defined only one time for both <code>eledmac</code> and <code>eledpar</code>	89
<code>\print@eledsectionL</code> : Compatibility with <code>Lua\TeX</code> RTL languages.	70
<code>\print@eledsectionR</code> : Compatibility with <code>Lua\TeX</code> RTL languages.	73
<code>\print@lineL</code> : Compatibility with <code>Lua\TeX</code> RTL languages.	70

General: Compatibility with Lua \TeX RTL languages.	1
v1.12.1.	
\backslash print@eledsectionL: Fixes bug with Lua \TeX RTL \backslash eledsection.	70
v1.13.0.	
\backslash Pages: Prevent false overfull hboxes when using \backslash Pages outside of pages environment.	112
When using shiftedpstarts option, a \backslash l@leftbox with a null height will advance the \backslash pagetotal in any case.	112
\backslash clearl@drighthouse: Use \backslash newpage instead of \backslash clearpage.	120
\backslash ifledRcol: Remove false boolean settings which are not needed.	28
General: Enable the use of optional argument of & in astanza environment.	93
Fix a bug in shiftedpstarts when size difference between pstarts is very important.	1
With parallel pages, long notes can now flow from the Left to the right side and from the Right to the left side.	1
v1.13.1.	
\backslash Pages: Prevent false empty page after \backslash Pages (bug added in 1.13.0)	112
\backslash correct@footinsX@box: Call \backslash correct@footinsX@box and \backslash correct@Xfootins@box directly in \backslash print@notesX@forpages and \backslash print@Xnotes@forpages.	83
Correct \backslash correct@footinsX@box and \backslash correct@Xfootins@box	83
v1.14.0.	
General: Fix a bug with line number position when using \backslash eledsection and similar commands for RTL texts with Lua \TeX	1
The \backslash newifs are not followed by boolean values set to false, because it is the \TeX default setting.	1
v1.15.0.	
\backslash do@actions@nextR: Add actions 1008 and 1009	75
\backslash inserthangingsymbolR: Prevent more efficiently the column separator from shifting when a verse is hanging	92
\backslash lineationR: As \backslash lineation, \backslash lineationR automatically set the \backslash pstartinfootnote.	37
\backslash n@num: \backslash n@num defined only one time for both Eledmac and Eledpar.	47
\backslash skipnumbering: \backslash skipnumbering defined only one time for both Eledmac and Eledpar	53
General: Add \backslash AtEveryPstartCall.	1
Add sameparallelpagenumber option.	14
Fix vertical spurious space before right \backslash eledchapter (bug added in v1.13.0).	1
Prevent vertical space when using \backslash AtEveryPstart or \backslash AtEveryPend with a command which prints nothing	1
v1.16.0.	
\backslash newseries@par: Fix a bug with \backslash onlysideX.	53
General: Error message when calling \backslash Pages inside ‘pages’ environment and \backslash Columns inside ‘pairs’ environment.	1
Error message when starting a Leftside/a Rightside while the previous one has not been yet typeset.	1
Error message when using \backslash beginnumbering... \backslash endnumbering without \backslash pstart.	1
Fix a bug with unfamiliar / nocritical option of eledmac.	1
New package option sameparallelpagenumber to have the same page number for both left and right side.	1

v1.16.1.	
General: Write information about line-list file version in the correct file.	1
v1.16.2.	
General: Fix a bug when adding empty lines before a <code>\pend</code> in combination with some specific penalties setting.	1
v1.17.0.	
General: Add compatibility of optional argument of <code>\pstart/\pend</code> and <code>\AtEveryPstart/\AtEveryPend</code> with two columns mode.	1
v1.21.0.	
General: Add <code>\hidenumbering</code>	18
v2.0.0.	
<code>\@adv</code> : <code>\@adv</code> defined only in <code>reledmac</code>	46
<code>\@lab</code> : <code>\@lab</code> defined only in <code>eledmac</code>	89
<code>\@ref@regR</code> : <code>\@ref</code> defined only in <code>reledmac</code> , code specific to right side moved in <code>\ref@regR</code>	47
<code>\@set</code> : <code>\@set</code> defined only in <code>reledmac</code>	46
<code>\advanceline</code> : <code>\advanceline</code> defined only in <code>reledmac</code>	52
<code>\bbl@set@language</code> : Patch <code>\bbl@set@language</code> instead of redefining it	95
<code>\do@lockonR</code> : <code>\do@lockon</code> defined only in <code>reledmac</code>	46
<code>\endlock</code> : <code>\startlock</code> and <code>\endlock</code> defined only in <code>reledmac</code>	53
<code>\endsub</code> : <code>\startsub</code> and <code>\endsub</code> defined only in <code>reledmac</code>	52
<code>\fix@page</code> : <code>\fix@page</code> is defined only once in <code>reledmac</code>	46
<code>\l@d@set</code> : <code>\l@d@set</code> defined only in <code>reledmac</code>	46
<code>\line@marginR</code> : <code>\linenummargin</code> now defined only once time in <code>reledmac</code>	38
<code>\page@action</code> : <code>\page@action</code> defined only in <code>reledmac</code>	46
<code>\read@linelist</code> : <code>\read@linelist</code> is defined only once time in <code>\reledmac</code>	44
<code>\set@line</code> : <code>\set@line</code> defined only in <code>reledmac</code>	53
<code>\set@line@action</code> : <code>\set@line@action</code> defined only in <code>reledmac</code>	46
<code>\setline</code> : <code>\setline</code> defined only in <code>reledmac</code>	53
<code>\setlinenum</code> : <code>\setlinenum</code> defined only in <code>reledmac</code>	53
<code>\skip@lockoff</code> : <code>\do@lockoff</code> defined only in <code>reledmac</code>	47
<code>\sub@action</code> : <code>\sub@action</code> defined only in <code>reledmac</code>	46
<code>\sublinenumincrement*</code> : <code>\firstlinenum</code> , <code>\linenumincrement</code> , <code>\firstsublinenum</code> , <code>\sublinenumincrement</code> are now defined only in <code>reledmac</code>	40
General: <code>\@nl</code> is now defined only in <code>reledmac</code>	44
<code>\ifbypage@</code> and <code>\ifbypstart@R</code> defined in <code>eledmac</code>	37
Fix some bugs with ‘sameparallelpagenumber’ option.	1
Many code refactored and moved to <code>reledmac</code>	1
Package’s name becomes <code>reledpar</code>	1
Totally new implementation of ‘sameparallelpagenumber’ option.	1
<code>chapterinpages</code> : Deleting the old system of managing parallel chapter, keep only the new one with <code>\patchcmd</code>	59
v2.1.0.	
General: Fix a bug when using <code>\eledsection</code> and related on right pages when page width is short.	1
Fix a bug when using <code>\pagenumbering</code> with memoir (bug added in v2.0.0).	1
Fix a bug with <code>\setparledgroupnotespacing</code> with the <code>shiftedpstarts</code> option.	1
Fix incompatibility between optional argument of <code>\pstart</code> and <code>\numberpstarttrue</code>	1
Options to custom empty right page before <code>\Pages</code>	1

v2.2.0.	
General: <code>astanza</code> environment can take an optional argument, which will be the optional argument of <code>\pstart</code> started by this environment.	1
New tools to number stanza	1
v2.2.1.	
General: Fix a bug with optional argument of last left <code>\pend</code>	1
v2.3.0.	
<code>\Pages</code> : Fix a bug when calling <code>\Columns</code> after a <code>\Pages</code> (bug added in v1.13.0). . . .	112
General: Change some internal codes in order to provide compatibility with \LaTeX release of october 2015	1
Fix a bug with title number in parallel columns	1
New line setting command suffixed by R to set only the right side.	1
v2.4.0.	
<code>\ledstrutR</code> : Deleted <code>\ledstrutL</code> and <code>\ledstrutR</code>	119
Fix a bug with dotted letter	119
General: New way of (not) synchronizing the parallel pages.	1
Option to switch to <code>\mainmatter</code> when calling <code>\Pages</code>	1
v2.5.0.	
General: Disable empty lines as paragraph in <code>astanza</code>	1
Fix a bug introduced in v1.15.0 which made hanging indentation in verse not work anymore.	1
New commands <code>\linenummarginR</code> and <code>\linenummargin*</code>	1
v2.5.1.	
General: Fix spurious space when using optional argument of <code>astanza</code> environment (introduced in v2.5.0).	1
v2.5.2.	
General: Fix a bug introduced in v2.5.0 with <code>\linenummargin</code> , <code>\firstlinenum</code> , <code>\linenumincrement</code> , <code>\firstsublinenum</code> , <code>\sublinenumincrement</code>	1
v2.6.0.	
<code>\l@dmake@labelsR</code> : <code>\@Rlineflag</code> is not stored directly after the line number, but as a fifth argument of <code>\the@labelX</code> . Can be retrieved by <code>\xflagref</code>	89
General: <code>\Xlineflag</code> and <code>\Xendlineflag</code> added	1
<code>\printlinesR</code> deleted	1
Error message when calling <code>\Pages</code> or <code>\Columns</code> without previous pages or pairs environment.	1
Fix a bug with footnote numbering when using the same series of familiar footnotes on both sides.	1
Fix a bug with right side title number when using title commands before pages or columns environments.	1
Fix compatibility with <code>babel</code> (broken in v2.0.0).	1
No error messages about ends of left / right page when using the <code>\syntaxonly</code> command of the <code>syntonly</code> package.	1
v2.6.1.	
General: Fix a bug, introduced in v2.6.0, with footnote numbering when using <code>perpage</code> package.	1
v2.6.2.	
<code>\newseries@par</code> : The \TeX counter <code>\footnotex@reading</code> is defined in <code>reledmac</code> . . .	54
General: Fix (again) bugs with footnote numbering in parallel typesetting while using <code>ledgroup</code> environments (bug added in v2.6.0).	1

Fix a bug (added in v2.6.0) with footnote numbering in parallel typesetting while using <code>polyglossia</code> with specific numbering systems (like Greek).	1
v2.6.3.	
General: Fix spurious dot when using <code>\linenummargin</code> on right side (introduced in v2.5.0).	1
v2.7.0.	
General: <code>reledmac</code> cross-referencing can take advantage of <code>xr</code> package.	1
v2.7.1.	
General: Fix a bug added in <code>reledmac</code> 2.8.2, when typesetting parallel text just after a sectioning command	1
v2.8.0.	
General: Allow continuing line numbering between normal text and parallel text, using <code>\pausenumbering</code> and <code>\resumenumbering</code> and the <code>continuousnumberingwithcolumns</code> options.	1
Add <code>\linenumberLevenifblanktrue</code> and <code>\linenumberRevenifblank</code> commands	1
Fix a bug when the right line number style is not the same to the left line number style	1
v2.9.0.	
General: Add <code>\AtEveryStanza</code> and <code>\AtEveryStopStanza</code> .	1
More specific error messages.	1
v2.9.1.	
General: Prevent <code>\Xtxtbeforenotes</code> hook from causing notes to go beyond the bottom margin	1
v2.10.0.	
<code>\do@actions@nextR</code> : Add action 1010	75
General: Add new tools to make apparatuses of manuscripts	1
v2.11.0.	
<code>\correct@footinsX@box</code> : Clarification in the handbook about the use of <code>\Xonlyside</code> and <code>onlysideX</code> and error message if misuse.	83
New implementation of <code>\Xonlyside</code> and <code>\onlysideX</code> hooks, prevent trouble with vertical spacing.	83
General: Compatibility with <code>reledmac</code> 's <code>auxdir</code> option.	1
v2.12.0.	
General: Add <code>\edtextlater</code> and <code>\edtextnow</code> .	1, 87
Fix a bug with <code>\AtBeginPairs</code> .	1
Fix a bug with <code>\lineationR</code> .	1
v2.13.0.	
General: Compatibility with the new features of <code>reledmac</code> 2.15.0	1
v2.13.1.	
General: Simplification of the code concerning the sectioning command	1
v2.14.0.	
General: Add <code>\linenumberlistR</code> , equivalent to <code>\linenumberlist</code> for the right side.	1
Error message when left / right side are not defined.	1
More explicit error message when the stanza indentation is not defined.	1
New commands to have specific line margins for text running in parallel columns	1
When indexing texts in sidenotes with <code>\edtext</code> , referring to the line number where the sidenote is called.	1
v2.14.1.	
General: Fix a bug when using <code>\markboth</code> on <code>\doinsidelineLhook</code> and <code>\doinsidelineRhook</code> .	1

Fix a bug with vertical space before sectioning command in optional argument of <code>\pstart</code> (bug added in v2.13.1).	1
v2.14.2.	
General: Fix spurious space with <code>\edtextlater</code>	1
v2.14.3.	
General: Fix a bug in <code>\edtextnow</code>	1
v2.14.4.	
General: Take into account <code>\linenumberstyle</code> when using <code>\edlineref</code>	1
v2.15.0.	
General: Add <code>movecolumnspostiononrightpage</code> option.	1
Fix a bug about space before sectioning commands after a pairs environment (bug added in v. 2.14.4).	1
Fix a bug with <code>\msdata</code> when using multiple <code>\beginnumbering... \endnumbering</code>	1
Fix a bug with page break when using <code>\columns</code> (bug added in v. 2.14.1).	1
New macro <code>\sidenotemarginR</code> , fix default value to right.	1
v2.16.0.	
General: Compatibility with <code>\setmsdataposition</code>	1
v2.16.1.	
General: Restore sidenotes on left side, deleted by mistake in v2.16.0	1
v2.16.2.	
General: Change log message when numbered files still don't exist, in order to improve compatibility with <i>latexmk</i>	1
v2.16.3.	
General: Fix a bug when setting <code>\aftercolumnseparator</code>	1
v2.17.0.	
General: Change code for compatibility with <code>reledmac</code> 2.18.0	1
v2.17.1.	
General: Fix a bug with <code>prevpgstyle</code> option when not using <code>prevpgnotnumbered</code>	1
v2.17.2.	
<code>\Pages</code> : Fix a bug when changing <code>\Lcolwidth</code> and <code>\Rcolwidth</code> in pages environment.	112
v2.17.3.	
General: Fix a bug when using multiple sidenotes on the same line, on right side.	1
v2.17.4.	
General: Fix bugs with sublines in parallel typesetting.	1
v2.18.0.	
General: Compatibility with v2.20.0 of <code>reledmac</code>	1
v2.19.0.	
General: Compatibility with v2.22.0 of <code>reledmac</code>	1
v2.19.1.	
General: Fix a bug with <code>\edtext</code> in sectioning command with <code>shiftedpstarts</code> mode.	1
v2.19.2.	
General: <code>continuousnumberingwithcolumns</code> also works for the <code>pstart</code> number.	1
v2.19.3.	
General: Do not print footnotes at the first run.	1
Fix a bug with <code>nopbinverse</code> when using consecutive <code>\Pages</code>	1
v2.19.4.	
General: Optimisation of the code in order to not print footnotes at the first run.	1
v2.19.5.	
General: Fix a bug added in <code>astanza</code> in v. 2.18.0	1

v2.20.0.	
\next@line@list@stuffR: Add \next@line@list@stuffR internal hook.	51
General: Add \linenumOnlyPagesForColumns and	
\linenumOnlyPagesForColumnsR to tell to print the line numbers associated with	
a column only on some specific pages (for example, only on right pages).	1
Add sidenotesmarginpage option to make the sidenotes refer to page margins and	
not column margins.	1
Fix a bug with \continuousnumberingwithcolumns when using multiple series of	
continued numbering text. Now, the line number are correctly reset at each	
\beginnumbering.	1
Fix a bug with continuousnumberingwithcolumns and inner / outer notes and line	
numbering.	1
Fix a bug with continuousnumberingwithcolumns when a \beginnumbering is	
called after another \beginnumbering...\endnumbering.	1
Fix a bug with widthliketwocolumns when manually setting	
\beforecolumnseparator and \aftercolumnseparator.	1
Fix compatibility between continuousnumberingwithcolumns and	
\numberpstartfalse.	1
Fix incompatibility between \lineation{page} and	
continuousnumberingwithcolumns option	1
v2.20.1.	
General: Fix bug with continuousnumberingwithcolumns when left column and	
right column have not the same size.	1
v2.20.2.	
General: Fix bugs with continuousnumberingwithcolumns when going to a new page	1
v2.21.0.	
General: Add compatibility with new features of reledmac 2.26.0	1
v2.21.1.	
General: Fix bug with \linenumannotation	1
v2.21.2.	
General: Fix bug with \Xpstart and \edtextlater	1
v2.21.3.	
General: Fix bug when using \numberpstarttrue and alternating between manual	
\pstart and automatic \pstart produced by \autopar	1
v2.21.4.	
General: Fix bug with using \eledsection and related when alternate normal	
typesetting and parallel typesetting	1
v2.21.5.	
General: Compatibility with reledmac v. 2.26.6	1
v2.21.6.	
General: Fix page number in footnote and endnotes when using	
sameparallelpagenum option	1
v2.21.7.	
General: Compatibility with reledmac 2.26.7	1
v2.21.8.	
General: Fix bug with critical footnotes line number when alternating between	
\numberlinefalse and \numberlinetrue.	1
Fix bug with marginal line number in parallel typesetting when alternating between	
\numberlinefalse and \numberlinetrue.	1

Workaround with a bug of \TeX 2018/04/01 patch level 3 to generate the .sty file from a .ins file	1
v2.21.9.	
General: Fix (little) bug when using calc package.	1
v2.22.0.	
General: Compatibility with \doinsidethislinehook macro.	1
v2.22.1.	
General: Really reset line number annotation at each line	1
v2.22.2.	
General: Fix bug with \Xonlyside and \onlysideX	1
v2.22.3.	
General: When using \parindentX or \Xparindent and stanza, use the normal indentation in the footnote, not the verse indentation.	1
v2.22.4.	
\theledlanguageR: Provide compatibility with the latest version of polyglossia (v1.45).	96
v2.23.0.	
\theledlanguageR: Restore compatibility with versions of polyglossia prior to v1.45.	96
General: Add \Leftpagehook and \Rightpagehook.	1
Add hanging symbol feature to astanza.	1
v2.23.1.	
General: Fix bug when using polyglossia v1.45 or later.	1
v2.24.0.	
General: Add antilabe feature.	1
Add startstanzaindentsrepetition feature.	1
v2.24.1.	
General: Fixes incompatibility between lineation by \pstart and (a)stanza.	1
Makes \numberstantzatrue working with astanza.	1
v2.24.2.	
General: Fix some bugs with lineation by page, when a numbered section starts at the very beginning of page.	1