

Typesetting captions with the caption package^{*}

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Abstract

The caption package provides many ways to customise the captions in floating environments such `figure` and `table` and cooperates with many other packages.

¹

1 Introduction

Within the standard \LaTeX classes captions haven't received the attention they deserve. Simply typeset as an ordinary paragraph there is no remarkable visual difference from the rest of the text, like here:

Figure 1: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

There should be possibilities to change this; e.g., it would be nice if you can make the text of the caption a little bit smaller as the normal text, add an extra margin, typeset the caption label with the same font family and shape as your headings etc. Just like this one:

Figure 2: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

With this package you can do this easily as there are many ready-to-use caption formatting options, but you are free to define your very own stuff, too.

^{*}This package has version number v3.0b, last revised 2004/05/16.

¹A complete re-work of the user interface done together with Steven D. Cochran and Frank Mittelbach has lead to this new enhanced version 3.0.

2 Using the package

`\usepackage` Insert

```
\usepackage[<options>]{caption}[2004/05/16]
```

into the preamble of your document, i.e. the part of your document between `\documentclass` and `\begin{document}`. The options control how your captions will look like; e.g.,

```
\usepackage[margin=10pt,font=small,labelfont=bf]{caption}
```

would result in captions looking like the second one in the introduction.

`\captionsetup` For a later change of options the caption package provides the command

```
\captionsetup[<float type>]{<options>}
```

So

```
\usepackage[margin=10pt,font=small,labelfont=bf]{caption}
```

and

```
\usepackage{caption}
\captionsetup{margin=10pt,font=small,labelfont=bf}
```

are equal in their results.

It's good to know that `\captionsetup` has an effect on the current environment only. So if you want to change some settings for the current figure or table only, just place the `\captionsetup` command inside the figure or table right before the `\caption` command. For example

```
\begin{figure}
...
\captionsetup{singlelinecheck=off}
\caption{...}
\end{figure}
```

switches the single-line-check off, but only for this figure so all the other captions remain untouched.

(For a description of the optional parameter *<float type>* see section 4: “Useful stuff”.)

3 Options

3.1 Formatting

`format=` A figure or table caption mainly consists of three parts: the caption label, which says if

this object is a ‘Figure’ or ‘Table’ and what number is associated with it, the caption text itself, which is normally a short description of contents, and the caption separator which separates the text from the label.

The *caption format* determines how this information will be presented; it is specified with the option

`format=⟨format name⟩` ,

having the name of the caption format as its argument.

There are two standard caption formats:²

`default` Typesets the captions as a normal paragraph. (This is the default behaviour, it is adapted from the standard L^AT_EX document classes.)

`hang` Indents the caption text, so it will ‘hang’ under the first line of the text.

An example: Specifying the option

`format=hang`

yields captions like this:

Figure 3: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`indentation=` For both formats (`default` and `hang`) you can setup an extra indentation starting at the second line of the caption. You do this with the option

`indentation=⟨amount⟩`.

Two examples:

`format=default,indentation=.5cm`

Figure 4: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`format=hang,indentation=-0.5cm`

Figure 5: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`labelformat=` With the option

²You have the option to define your own ones, too. See section 5: “*Do it yourself!*” for details.

`labelformat=\langle label format name \rangle`

you specify how the caption label will be typeset. There are three standard caption label formats:

<code>empty</code>	The caption label will be empty. This option only makes sense when used together with other options like <code>labelsep=none</code> .
<code>simple</code>	The caption label will be typeset as a name and a number. (This is the default behaviour.)
<code>parens</code>	The number of the caption label will be typeset in parentheses.

An example: Using the options

`labelformat=parens, labelsep=quad`

yields captions like this one:

Figure (6) White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`labelsep=` With the options

`labelsep=\langle label separator name \rangle`

you specify what caption separator will be used. You can choose one of the following:

<code>none</code>	There is no caption separator. This option only makes sense when used together with other options like <code>labelformat=empty</code> .
<code>colon</code>	The caption label and text will be separated by a colon and a space. (This is the default one.)
<code>period</code>	The caption label and text will be separated by a period and a space.
<code>space</code>	The caption label and text will be separated by a single space.
<code>quad</code>	The caption label and text will be separated by a <code>\quad</code> .
<code>newline</code>	The caption label and text will be separated by a line break (<code>\newline</code>).

Two examples:

`labelsep=period`

Figure 7. White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

labelsep=newline

Figure 8

White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

3.2 Justification

`justification=` As addition to the caption format you could also specify a *caption justification*; it is specified with the option

`justification=⟨justification name⟩` .

You can choose one of the following:

<code>justified</code>	Typesets the caption as a normal paragraph. (This is the default.)
<code>centering</code>	Each line of the caption will be centered.
<code>centerlast</code>	The last line of each paragraph of the caption text will be centered.
<code>centerfirst</code>	Only the first line of the caption will be centered.
<code>raggedright</code>	Each line of the caption will be moved to the left margin.
<code>RaggedRight</code>	Each line of the caption will be moved to the left margin, too. But this time the command <code>\RaggedRight</code> of the <code>ragged2e</code> package will be used to achieve this. This difference is that this time the word breaking algorithm of \TeX will work inside the caption.
<code>raggedleft</code>	Each line of the caption will be moved to the right margin.

Two examples:

`justification=centerlast`

Figure 9: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`format=hang, justification=raggedright`

Figure 10: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`singlelinecheck=` If the caption fit in a single line it will always be centered, ignoring the justification you set:

Figure 11: A short caption.

This behaviour is adapted from the standard L^AT_EX document classes `article`, `report`, and `book`), but using the `caption` package you can switch this special treatment of such short captions off with the option

```
singlelinecheck={\bool}
```

Using `false`, `no`, `off` or `0` for `\bool` you switch off the extra centering:

```
singlelinecheck=false
```

Doing so the above short caption would look like

Figure 12: A short caption.

Using `true`, `yes`, `on` or `1` for `\bool` you switch on the extra centering again. (The default is on.)

3.3 Fonts

`font=` There are three font options which affects different parts of the caption: One affecting the whole caption (`font`), one which only affects the caption label and separator (`labelfont`) and at last one which only affects the caption text (`textfont`). You set them up using the options

```
font={\font options} ,
labelfont={\font options} and
textfont={\font options} .
```

And these are the available font options:

<code>scriptsize</code>	Very small size
<code>footnotesize</code>	The size usually used for footnotes
<code>small</code>	Small size
<code>normalsize</code>	Normal size
<code>large</code>	Large size
<code>Large</code>	Even larger size
<code>up</code>	Upright shape

<code>it</code>	<i>Italic shape</i>
<code>sl</code>	<i>Slanted shape</i>
<code>sc</code>	SMALL CAPS SHAPE
<code>md</code>	Medium series
<code>bf</code>	Bold series
<code>rm</code>	Roman family
<code>sf</code>	Sans Serif family
<code>tt</code>	Typewriter family

If you use only one of these options you can omit the braces; e.g., the options `font={small}` and `font=small` yield the same result.

Two examples:

```
font={small,it},labelfont=bf
```

Figure 13: *White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.*

```
font=small,labelfont=bf,textfont=it
```

Figure 14: *White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.*

3.4 Margins and further paragraph options

`margin=` For all captions you can specify *either* an extra margin *or* a fixed width. You do this using
`width=` the options

```
margin=<amount> or
width=<amount>
```

Nevertheless what option you use, the left and right margin will be the same.

Two examples illustrating this:

```
margin=10pt
```

Figure 15: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`width=.75\textwidth`

Figure 16: White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

`parskip=` This option is useful for captions containing more than one paragraph. It specifies the extra vertical space inserted between them:

`parskip=<amount>`

One example:

`margin=10pt,parskip=5pt`

Figure 17: First paragraph of the caption. This one contains some test, just to show how these options affect the layout of the caption.

Second paragraph of the caption. This one contains some text, too, to show how these options affect the layout of the caption.

`hangindent=` The option

`hangindent=<amount>`

is for setting up a hanging indentation starting from the second line of each paragraph. If the caption contains just a single paragraph, using this option leads to the same result as the option `indentation=` you already know about. But if the caption contains multiple paragraphs you will notice the difference:

`format=hang,indentation=-.5cm`

Figure 18: First paragraph of the caption. This one contains some test, just to show how these options affect the layout of the caption.

Second paragraph of the caption. This one contains some text, too, to show how these options affect the layout of the caption.

`format=hang,hangindent=-.5cm`

Figure 19: First paragraph of the caption. This one contains some test, just to show how these options affect the layout of the caption.

Second paragraph of the caption. This one contains some text, too, to show how these options affect the layout of the caption.

3.5 Styles

`style=` A suitable combination of caption options is called *caption style*. You can compare them

more or less to page styles which you set up with `\pagestyle`: The caption style provides all settings for a whole caption layout.

You switch to an already defined caption style with the option

```
style=<style name> .
```

The caption package usually defines only the style `default` which puts all options you already know about to the default ones. This means that specifying the option

```
style=default
```

has the same effect as specifying all these options:

```
format=default, labelformat=simple, labelsep=colon,
justification=justified, font=default, labelfont=default,
textfont=default, margin=0pt, indention=0pt, parindent=0pt
hangindent=0pt, singlelinecheck=true
```

3.6 Skips

`aboveskip=` The spaces above and below the caption are controlled by the skips `\abovecaptionskip`
`belowskip=` and `\belowcaptionskip`. The standard L^AT_EX document classes `article`, `report` and `book` set `\abovecaptionskip` to 10pt and `\belowcaptionskip` to 0pt.

Both skips can be changed with the command `\setlength`, but you can use these options, too:

```
aboveskip=<amount> and
belowskip=<amount> .
```

`position=` Using `\abovecaptionskip` and `\belowcaptionskip` has a major design flaw: If the caption is typeset *above* (and not *below*) the figure or table they are not set up very useful at default, because there will be some extra space above the caption but no space between the caption and the figure or table itself. (Remember: `\belowcaptionskip` is usually set to 0pt.)

Please compare the spacing in these small tables:

Table 1: A table		A	B
		C	D
A	B		
C	D	Table 2: A table	

But you can fix this by using the option `position=`: It specifies how the spacing above and below the caption will be used:

```
position=top (or position=above)
```

tells the caption package to use the spacing useful for caption *above* the figure or table and

`position=bottom` (or `position=below`)

tells the caption package to use the spacing useful for captions *below* the figure or table. (The last one is the default setting.)

So adding an extra `\captionsetup{position=top}` to the left example table gives you proper spacing around both captions:

Table 3: A table

A	B
C	D

A	B
C	D

Table 4: A table

(Technically speaking `\abovecaptionskip` and `\belowcaptionskip` will be swapped if you specify the option `position=top`, so in both cases `\abovecaptionskip` will be used between the caption and the figure or table itself.)

`tableposition=` This option is especially useful when used together with the optional argument of the `\captionsetup` command. (See section 4: “*Useful stuff*” for details.) E.g.,

`\captionsetup[table]{position=top}`

New feature
v3.0a

causes all captions within tables to be treated as captions *above* the table (regarding spacing around it). Because this is a very common setting the caption package offers an abbreviating option for the use with `\usepackage`:

`\usepackage[... ,tableposition=top]{caption}`

is equivalent to

`\usepackage[...]{caption}`
`\captionsetup[table]{position=top}`

4 Useful stuff

`\caption` The command

```
\caption[<lst_entry>]{<heading>}
```

typesets the caption inside a floating environment like `figure` or `table`. Well, you already know this, but what is new is the fact then when you leave the argument *<lst_entry>* empty, no entry in the list of figures or tables will be made; e.g.,

```
\caption[] {A figure without entry in the list of figures.}
```

`\caption*` The `longtable` package defines the command `\caption*` which typesets the caption without label and without entry in the list of tables. An example:

```
\begin{longtable}{cc}
  \caption*{A table}\\
  A & B \\
  C & D \\
\end{longtable}
```

looks like

A table

A	B
C	D

This package does it, too, so you can use this command now within every floating environment like `figure` or `table`. Additionally you can specify an entry for the list of figures or tables within square brackets, like here:

```
\begin{table}
  \caption*[List entry for the table]{A table}
  \begin{tabular}{cc}
    A & B \\
    C & D \\
  \end{tabular}
\end{table}
```

`\captionof` Sometimes you want to typeset a caption *outside* a floating environment, putting a figure within a `minipage` for instance. For this purpose the `caption` package offers the command

```
\captionof{<float type>}[<lst_entry>]{<heading>}
```

Note that the first argument, the *float type*, is mandatory here, because the `\captionof` command needs to know which name to put into the caption label (e.g. “Figure” or “Table”) and in which list to put the contents entry. An example:

```
\captionof{figure}{A figure}
\captionof{table}{A table}
```

typesets captions like this:

Figure 20: A figure

Table 6: A table

The star variant `\captionof*` has the same behaviour as the `\caption*` command: it typesets the caption without label and without entry to the list of figures or tables (if not specified otherwise).

Please use both `\captionof` and `\captionof*` only *inside* environments (like `minipage` or `\parbox`), otherwise a page break can appear between content and caption. Furthermore some strange effects could occur (e.g., wrong spacing around captions).

`\ContinuedFloat` Sometimes you want to split figures or tables without giving them their own reference number. This is what the command

```
\ContinuedFloat
```

is for; it should be used as first command inside the floating environment. It prevents the increment of the relevant counter so a figure or table with a `\ContinuedFloat` in it gets the same reference number as the figure or table before.

An example:

```
\begin{table}
\caption{A table}
...
\end{table}
...
\begin{table}\ContinuedFloat
\caption{A table (cont.)}
...
\end{table}
```

gives the following result:

Table 7: A table

...

Table 7: A table (cont.)

`\captionsetup` We already know the `\captionsetup` command (see section 2: “Using the package”),

but this time we get enlighten about the optional argument $\langle float\ type \rangle$. Remember, the syntax of this command is

```
\captionsetup[ $\langle float\ type \rangle$ ]{ $\langle options \rangle$ }
```

If a $\langle float\ type \rangle$ gets specified, all the $\langle options \rangle$ don't change anything at this time. Instead they only get marked for a later use, when a caption inside of a floating environment of the particular type $\langle float\ type \rangle$ gets typeset. For example

```
\captionsetup[figure]{ $\langle options \rangle$ }
```

forces captions within a `figure` environment to use the given $\langle options \rangle$. Here comes an example to illustrate this:

```
\captionsetup{font=small}  
\captionsetup[figure]{labelfont=bf}
```

gives captions like this:

Figure 21: A figure

Table 8: A table

As you see the command `\captionsetup[figure]{labelfont=bf}` only changed the font of the figure caption labels, not touching all other ones.

`\clearcaptionsetup` If you want to get rid of these parameters marked for an automatic use within a particular environment you can use the command

```
\clearcaptionsetup{ $\langle Typ \rangle$ }
```

For example `\clearcaptionsetup{figure}` would clear the extra handling in the example above:

Figure 22: A figure

Table 9: A table

As $\langle float\ type \rangle$ you can usually give one of these only two: `figure` and `table`. But as we will see later some \LaTeX packages exist (like the `float` package for example) who can define additional floating environments and these two commands also works with them.

5 Do it yourself!

A family of commands is provided to allow users to define their own formats. This enables information on separators, justification, fonts, and styles to be associated with a name and kept in one place (these commands need to appear in the document preamble, this is the part between `\documentclass` and `\begin{document}`).

`\DeclareCaptionFormat` You can define your own caption formats using the command

```
\DeclareCaptionFormat{<name>}{<code using #1, #2 and #3>}
```

At usage the system replaces #1 with the caption label, #2 with the separator and #3 with the text. So the standard format default is defined inside `caption.sty` as

```
\DeclareCaptionFormat{default}{#1#2#3\par}
```

`\DeclareCaptionLabelFormat` Likewise you can define your own caption label formats:

```
\DeclareCaptionLabelFormat{<name>}{<code using #1 and #2>}
```

At usage #1 gets replaced with the name (e.g. “figure”) and #2 gets replaced with the reference number (e.g. “12”).

`\bothIfFirst` When you define your own caption label formats and use the subfig package[7], too, you
`\bothIfSecond` must take care of empty caption label names. For this purpose the commands

```
\bothIfFirst{<first arg>}{<second arg>} and  
\bothIfSecond{<first arg>}{<second arg>}
```

are offered. `\bothIfFirst` tests if the first argument is empty, `\bothIfSecond` tests if the second argument is empty. If it is so both arguments get typeset, otherwise none of them.

For example the standard label format `simple` isn’t defined as

```
\DeclareCaptionLabelFormat{simple}{#1 #2} ,
```

because this could cause an extra space if #1 is empty. Instead `simple` is defined as

```
\DeclareCaptionLabelFormat{simple}{\bothIfFirst{#1}{ }#2}  
,
```

causing the space to appear only if the label name is present.

`\DeclareCaptionLabelSeparator` You can define your own caption label separators with

```
\DeclareCaptionLabelSeparator{<name>}{<code>}
```

Again an easy example taken from `caption.sty` itself:

```
\DeclareCaptionLabelSeparator{colon}{: }
```

`\DeclareCaptionJustification` You can define your own caption justifications with

```
\DeclareCaptionJustification{<name>}{<code>} .
```

The `<code>` simply gets typeset just before the caption. E.g. using the justification `raggedright`, which is defined as

```
\DeclareCaptionJustification{raggedright}{\raggedright}
,
```

yields captions with all lines moved to the left margin.

`\DeclareCaptionFont` You can define your own caption fonts with

```
\DeclareCaptionFont{<name>}{<code>} .
```

For example this package defines the options `small` and `bf` as

```
\DeclareCaptionFont{small}{\small} and
\DeclareCaptionFont{bf}{\bfseries} .
```

`\DeclareCaptionStyle` The best one comes at last: You can define your own caption styles with

```
\DeclareCaptionStyle{<name>}[<additional options>]{<options>}
```

Remember, caption styles are just a collection of suitable options, saved under a given name. You can wake up these options at any time with the option `style=<style name>`.

All caption styles are based on the default set of options. (See section 3.5: “*Styles*” for a complete list.) So you only need to specify options which are different to them.

If you specify `<additional options>` they get used in addition when the caption fits into a single line and this check was not disabled with the option `singlelinecheck=off`.

Again a very easy example taken from `caption.sty`:

```
\DeclareCaptionStyle{default}[justification=centering]{}
```

5.1 Examples

If you would like to have a colon *and* a line break as caption separator you could define it this way:

```
\DeclareCaptionLabelSeparator{period-newline}{. \newline}
```

Selecting this separator with `\captionsetup{labelsep=period-newline}` you get captions like this:

Figure 23.

White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe’s finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

For short captions—which fit into one single line—this separator may not be satisfying, even when the automatically centering process is switched off (with `singlelinecheck=off`):

Figure 24.

A figure.

An own caption style which selects another caption separator automatically puts this right:

```
\DeclareCaptionStyle{period-newline}%
  [labelsep=period]{labelsep=period-newline}
```

Figure 25. A figure.

If you would like to keep the centering of these captions an appropriate definition is

```
\DeclareCaptionStyle{period-newline}%
  [labelsep=period,justification=centering]%
  {labelsep=period-newline}
```

Using this definition short captions look like

Figure 26. A figure.

while long ones still have a line break after the caption label.

Another example: You want captions to look like this:

White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

(Figure 27)

You could do it this way:

```
\DeclareCaptionFormat{reverse}{#3#2#1}
\DeclareCaptionLabelFormat{fullparens}{(\bothIfFirst{#1}{ }#2)}
\DeclareCaptionLabelSeparator{fill}{\hfill}
\captionsetup{format=reverse,labelformat=fullparens,
  labelsep=fill,font=small,labelfont=it}
```

Another example: The caption text should go into the left margin; a possible solution would be:

```
\DeclareCaptionFormat{llap}{\llap{#1#2}#3\par}
\captionsetup{format=llap,singlelinecheck=no,
  labelsep=quad}
```

As a result you would get captions like this:

Figure 28 White sand beaches. The pink smoothness of the conch shell. A sea abundant with possibilities. Duty-free shops filled with Europe's finest gifts and perfumes. Play your favorite game of golf amidst the tropical greens on one of the many championship courses.

6 Using non-standard document classes

New description
v3.0b The caption package was developed using the standard document classes `article`, `report` and `book`. But it should work with other document classes, too. (If there are any difficulties about a special document class please don't hesitate to write me an e-mail. Thank you.)

If you would like to use the caption package with the KOMA-Script classes, you have to take into consideration that all the possibilities for customization of the captions the KOMA-Script classes have to offer will get lost. (And they have a lot of possibilities to offer!) So commands like `\captionabove`, `\captionbelow`, `\captionformat`, `\figureformat`, `\tableformat`, `\setcapindent`, `\setcaphanging` etc. will not work anymore. So make a wise decision!

Using the caption with the memoir document class is not recommended.

7 Using other packages

The caption package contains special adaptations to other packages who handle with captions, too, so the captions always should look like you have specified them to look like.

These are the packages the caption package is adapted to:

<code>float</code>	Gives you the possibility to define new floating environments
<code>listings</code>	Typesets source code listings
<code>longtable</code>	Typesets tables spanned over multiple pages
<code>rotating</code>	Supports rotated figures and tables
<code>sidecap</code>	Offers captions <i>beside</i> figures or tables
<code>supertabular</code>	Typesets tables spanned over multiple pages

New feature
v3.0b If you use one of the above packages together with the caption package you get the additional possibility to set up captions with

```
\captionsetup[environment]{options}
```

These options will apply for captions inside these environments automatically. For example

```
\captionsetup[lstlisting]{labelfont=bf}
```

forces captions inside the `lstlisting` environment to have bold labels. (Please note that this do not work with the `sideways` environments offered by the rotating package.)

If a certain support is not desired you can switch it off using the caption package option

```
\usepackage[... ,package=no]{caption}
```

For example specifying the option `float=no` means you don't like the caption package to support the float package. (Note: You can specify these options only within the `\usepackage` command, especially *not* at a later time with `\captionsetup`.)

For further information about the supported packages please take a look at the documentation belonging to it or buy yourself The L^AT_EX Companion[1].

7.1 The float package

A very useful feature is provided by the float package[2]: It offers the float placement specifier H which is much more restrictive than the specifier h offered by L^AT_EX. While the latter one is only a recommendation to L^AT_EX to set the float “here”, the H forces the float to appear exactly at the spot where it occurs in your input file and nowhere else.

Furthermore it offers different styles for floating environments, these styles are plain, plaintop, ruled, and boxed. You can link one of these styles to either new floating environments or to one of the existing environments figure and table.

If you are using the caption package together with the float package this caption style called ruled gets defined automatically:

```
\DeclareCaptionStyle{ruled}{labelfont=bf,labelsep=space}
```

This style represents the caption layout in ruled styled floats. For you as an end user this means that captions within ruled floats will always look like this, nevertheless what generic caption options do you specify:

Program 7.1 The first program. This hasn’t got anything to do with the package but is included as an example. Note the ruled float style.

```
#include <stdio.h>

int main(int argc, char **argv)
{
    for (int i = 0; i < argc; ++i)
        printf("argv[%d] = %s\n", i, argv[i]);
    return 0;
}
```

If you want a different layout for ruled captions you have to define your own one using the command

```
\DeclareCaptionStyle{ruled}{\langle options \rangle} .
```

This mechanism also works with all other float styles. If you want a special caption layout for plain or boxed floats for example you can simply define a suitable caption style with the same name as the float style.

7.2 The listings package

New description
v3.0b

The listings package[3] is a source code printer for L^AT_EX. You can typeset stand alone files as well as listings with an environment similar to verbatim as well as you can print code snippets using a command similar to \verb. Many parameters control the output and if your preferred programming language isn’t already supported, you can make your own definition.

Note: For successful cooperation you need the listings package version 1.2 or higher. You'll get an error message when using an older version!

7.3 The longtable package

The longtable package[4] offers the environment `longtable` which behaves similar to the `tabular` environment, but the table itself can span multiple pages.

7.4 The rotating package

The rotating package[5] offers the floating environments `sidewaysfigure` and `sideways-table` which are just like normal figures and tables but rotated by 90 degree. Furthermore they always use a full page on their own.

7.5 The sidecap package

New description
v3.0b

The sidecap package[6] offers the floating environments `SCfigure` and `SCtable` which are like normal figures and tables but the caption will be put *beside* the contents.

The sidecap package offers it's own options for justification. If set, they will override the one specified with the caption option `justification=` for captions beside their contents.

listof=

Using the sidecap package you will probably notice that suppressing the entry in the list of figures or tables with `\caption[]{...}` won't work inside these environments. This is caused by the implementation design of the sidecap package, but you can use `\captionsetup{listof=false}` inside the figure or table as an alternative here.

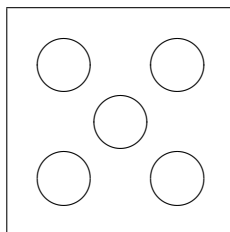


Figure 29: A small example with the caption beside the figure.

7.6 The supertabular package

The supertabular package[8] offers the environment `supertabular` which is quite similar to the `longtable` environment provided by the longtable package. Both offers the typesetting of tables which can span multiple pages. For a detailed discussion about the differences between these powerful packages please take a look at The L^AT_EX Companion[1].

7.7 Known incompatibilities

New description
v3.0b Using the caption package together with one of the following packages is not recommended; usually this would cause unwanted side effects or even errors:

ccaption, hvfloat, nonfloat

Furthermore using the hypcap package will cause major limitations: All extensions to the `\caption` command gets lost, the option `labelformat=` is not working at all and local settings done with `\captionsetup[...]{...}` lead not to the desired results. This is caused by the implementation design of the hypcap package, see section 1.3 “Limitations” of the hypcap documentation for details.

8 Compatibility to older versions

8.1 caption version 1.x

This version of the caption package still supports the old options and commands provided by the version 1.x of this package. So there shouldn’t occur any problems compiling old documents, but please don’t mix old options and commands with the new ones. This isn’t supported and can yield to ugly side effects.

Here comes a short oversight of the old options and commands and how they are replaced within this version of the caption package:

caption 1.x	caption 3.x
normal	format=default
hang	format=hang
isu	format=hang
center	justification=centering
centerlast	justification=centerlast
anne	justification=centerlast
nooneline	singlelinecheck=off
scriptsize	font=scriptsize
footnotesize	font=footnotesize
small	font=small
normalsize	font=normalsize
large	font=large
Large	font=Large
up	labelfont=up
it	labelfont=it
sl	labelfont=sl
sc	labelfont=sc
md	labelfont=md
bf	labelfont=bf
rm	labelfont=rm
sf	labelfont=sf
tt	labelfont=tt

caption 1.x	caption 3.x
<code>\setlength{\captionmargin}</code>	<code>margin=<i><amount></i></code>
<code>\renewcommand{\captionfont}</code>	<code>\DeclareCaptionFont</code> <code>+ \captionsetup{font=<i><name></i>}</code>
<code>\renewcommand{\captionsize}</code>	<code>\DeclareCaptionFont</code> <code>+ \captionsetup{font=<i><name></i>}</code>
<code>\renewcommand{\captionlabelfont}</code>	<code>\DeclareCaptionLabelFont</code> <code>+ \captionsetup{labelfont=<i><name></i>}</code>

8.2 caption2 version 2.x

Although they do very similar stuff the packages `caption` and `caption2` have a very different implementation design. So this version of the `caption` package isn't compatible to the `caption2` package at all. Of course for compiling old documents you can still use the `caption2` package, the latest version is provided with this package. But newly created documents shouldn't use the `caption2` package, please use the `caption` package instead as described in this manual.

9 Further reading

I recommend the following documents for further reading:

- The T_EX FAQ - Frequently asked questions about T_EX and L^AT_EX:

<http://faq.tug.org/>

- A French FAQ can be found at

<http://www.grappa.univ-lille3.fr/FAQ-LaTeX/>

- `epslatex` from Keith Reckdahl contains many tips around graphics in L^AT_EX 2_ε. You will find this document in the directory

<ftp://ftp.ctan.org/pub/tex/info/>

as `epslatex.ps` and `epslatex.pdf`.

There is also a french translation available:

<ftp://ftp.ctan.org/pub/tex/info/fepslatex.ps>

10 Thanks

I would like to thank Katja Melzner, Steven D. Cochran, Frank Mittelbach, David Carlisle, and Ivor Tiefenbrun.

11 The Implementation

I'm sorry for the missing code documentation, I will do this ASAP.

```
1 %
2 % Identification
3 %
4 \NeedsTeXFormat{LaTeX2e}[1994/12/01]
5 \ProvidesPackage{caption}[2004/05/16 v3.0b Customising captions (AS)]
```

11.1 Kernel

```
6 %\NeedsTeXFormat{LaTeX2e}[1994/12/01]
7 %\ProvidesPackage{caption3}[2004/xx/xx v3.1 caption3 kernel (AS)]
8 %
9 % Helpers
10 %
11 \providecommand*\@nameundef[1]{%
12   \expandafter\let\csname #1\endcsname\@undefined}
13 %
14 \providecommand\l@addto@macro[2]{%
15   \begingroup
16     \toks@\expandafter{#1#2}%
17     \edef\@tempa{\endgroup\def\noexpand#1{\the\toks@}}%
18   \@tempa}
19 %
20 \def\bothIfFirst#1#2{%
21   \protected@edef\caption@tempa{#1}%
22   \ifx\caption@tempa\@empty\else
23     #1#2%
24   \fi}
25 \def\bothIfSecond#1#2{%
26   \protected@edef\caption@tempa{#2}%
27   \ifx\caption@tempa\@empty\else
28     #1#2%
29   \fi}
30 %
31 \def\caption@ifinlist#1#2{%
32   \let\next\@secondoftwo
33   \edef\caption@tempa{#1}%
34   \@for\caption@tempb:= {#2}\do{%
35     \ifx\caption@tempa\caption@tempb
36       \let\next\@firstoftwo
37     \fi}%
38   \next}
39 %
40 % Setting boolean options:
41 \caption@setbool{<name>}{<value> = false/true/no/yes/off/on/0/1}
42 \caption@ifbool{<name>}{<if-clause>}{<else-clause>}
43 %
```

```

44 \def\caption@setbool#1#2{%
45   \caption@ifinlist{#2}{1,true,yes,on}{%
46     \expandafter\let\csname caption@if#1\endcsname \@firstoftwo
47   }{\caption@ifinlist{#2}{0,false,no,off}{%
48     \expandafter\let\csname caption@if#1\endcsname \@secondoftwo
49   }}{%
50     \PackageError{caption}{Undefined boolean value `#2'}{\caption@eh}%
51   }}
52 %
53 \def\caption@ifbool#1{\@nameuse{caption@if#1}}
54 %
55 % Obsolete stuff for compatibility to caption.sty 1.3
56 %
57 \newcommand\captionsize{% changed v3.0a
58 %
59 % Margin resp. width
60 %
61 \newdimen\captionmargin
62 \newdimen\captionwidth
63 \newif\ifcaption@width
64 \newcommand\caption@setmargin{%
65   \caption@widthfalse
66   \setlength\captionmargin{
67 \newcommand\caption@setwidth{%
68   \caption@widthtrue
69   \setlength\captionwidth{
70 %
71 % Indentions
72 %
73 \newdimen\captionindent
74 \newdimen\captionparindent
75 \newdimen\captionhangindent
76 %
77 % Support of \caption*
78 %
79 \newif\ifcaption@star
80 %
81 % Vertical spaces before/after captions
82 %
83 \@ifundefined{abovecaptionskip}{%
84   \newlength\abovecaptionskip\setlength\abovecaptionskip{10\p@}}{}
85 \@ifundefined{belowcaptionskip}{%
86   \newlength\belowcaptionskip\setlength\belowcaptionskip{0\p@}}{}
87 %
88 % Error
89 %
90 \newcommand\caption@eh{%
91   If you do not understand this error, please take a closer look\MessageBreak
92   at the documentation of the 'caption' package.\MessageBreak
93   \@ehc}

```

```

94 %
95 % Loading the keyval package
96 % (We need it for option handling)
97 %
98 \RequirePackage{keyval}[1997/11/10]
99 \providecommand*\undefine@key[2]{%
100   \@nameundef{KV@#1@#2}\@nameundef{KV@#1@#2@default}}
101 %
102 % Reset to default parameters
103 % (Note that this does not touch the skips and the positioning.)
104 %
105 \newcommand\caption@setdefault{\captionsetup{%
106   format=default,labelformat=default,labelsep=default,justification=default,%
107   font=default,labelfont=default,textfont=default,%
108   margin=0pt,indentation=0pt,parindent=0pt,hangindent=0pt,singlelinecheck}}
109 %
110 \DeclareCaptionStyle<name>[<additional(!) single-line-list-of-KV>]{<list-of-
111 \caption@setstyle{<name>}
112 %
113 % (Bugfix v3.0a: We pass through argument #3 so extra spaces between the
114 % arguments do make any harm.)
115 %
116 \newcommand*\DeclareCaptionStyle[1]{%
117   \@ifnextchar[{\caption@declarestyle{#1}}{\caption@declarestyle{#1}[]}]
118 \def\caption@declarestyle#1[#2]#3{% bugfixed v3.0a
119   \global\@namedef{caption@sls@#1}{#2}%
120   \global\@namedef{caption@sty@#1}{#3}}
121 \@onlypreamble\DeclareCaptionStyle
122 \@onlypreamble\caption@declarestyle
123 %
124 \newcommand*\caption@setstyle[1]{%
125   \@ifundefined{caption@sty@#1}%
126     {\PackageError{caption}{Undefined caption style '#1'}{\caption@eh}}%
127     {\expandafter\let\expandafter\caption@sls\csname caption@sls@#1\endcsname
128     \caption@setdefault\caption@esetup{\csname caption@sty@#1\endcsname}}}
129 %
130 % Pre-defined styles
131 %
132 \DeclareCaptionStyle{default}[justification=centering]{}
133 %
134 \DeclareCaptionFormat<name>[<code with #1, #2, and #3>]
135 \caption@setformat{<name>}
136 %
137 \newcommand\DeclareCaptionFormat[2]{% bugfixed v3.0a
138   \global\long\expandafter\def\csname caption@fmt@#1\endcsname##1##2##3{#2}}
139 \@onlypreamble\DeclareCaptionFormat
140 %
141 \newcommand*\caption@setformat[1]{%
142   \@ifundefined{caption@fmt@#1}%
143     {\PackageError{caption}{Undefined caption format '#1'}{\caption@eh}}%

```



```

144     {\expandafter\let\expandafter\caption@fmt\csname caption@fmt@#1\endcsname}}
145 %
146 % Pre-defined formats
147 %
148 \DeclareCaptionFormat{normal}{#1#2#3\par}
149 \DeclareCaptionFormat{hang}{%
150   \@hangfrom{#1#2}%
151   \advance\captionparindent\hangindent
152   \advance\captionhangindent\hangindent
153   \caption@par
154   #3\par}
155 \def\caption@fmt@default{\caption@fmt@normal}
156 %
157 % \DeclareCaptionLabelFormat{<name>}{<code with #1 and #2>}
158 % \caption@setlabelformat{<name>}
159 %
160 \newcommand*\DeclareCaptionLabelFormat[2]{% bugfixed v3.0a
161   \global\expandafter\def\csname caption@lfmt@#1\endcsname##1##2{#2}}
162 \@onlypreamble\DeclareCaptionLabelFormat
163 %
164 \newcommand*\caption@setlabelformat[1]{%
165   \@ifundefined{caption@lfmt@#1}%
166     {\PackageError{caption}{Undefined caption label format '#1'}{\caption@eh}}%
167     {\expandafter\let\expandafter\caption@lfmt\csname caption@lfmt@#1\endcsname}}
168 %
169 % Pre-defined label formats
170 %
171 \DeclareCaptionLabelFormat{empty}{}
172 \DeclareCaptionLabelFormat{simple}{\bothIfFirst{#1}{\nobreakspace}#2}
173 \DeclareCaptionLabelFormat{parens}{\bothIfFirst{#1}{\nobreakspace} (#2)}
174 \def\caption@lfmt@default{\caption@lfmt@simple}
175 %
176 % \DeclareCaptionLabelSeparator{<name>}{<code>}
177 % \caption@setlabelseparator{<name>}
178 %
179 \newcommand\DeclareCaptionLabelSeparator[2]{% bugfixed v3.0a
180   \global\long\@namedef{caption@lsep@#1}{#2}}
181 \@onlypreamble\DeclareCaptionLabelSeparator
182 %
183 \newcommand*\caption@setlabelseparator[1]{%
184   \@ifundefined{caption@lsep@#1}%
185     {\PackageError{caption}{Undefined caption label separator '#1'}{\caption@eh}}%
186     {\expandafter\let\expandafter\caption@lsep\csname caption@lsep@#1\endcsname}}
187 %
188 % Pre-defined label separators
189 %
190 \DeclareCaptionLabelSeparator{none}{}
191 \DeclareCaptionLabelSeparator{colon}{: }
192 \DeclareCaptionLabelSeparator{period}{. }
193 \DeclareCaptionLabelSeparator{space}{ }

```

```

194 \DeclareCaptionLabelSeparator{quad}{\quad}
195 \DeclareCaptionLabelSeparator{newline}{\newline}
196 \DeclareCaptionLabelSeparator{widespace}{\hspace{1em plus .3em}}%  obsolete, do
197 \def\caption@lsep@default{\caption@lsep@colon}
198 %
199 % \DeclareCaptionJustification{<name>}{<code>}
200 % \caption@setjustification{<name>}
201 %
202 \newcommand*\DeclareCaptionJustification[2]{%  bugfixed v3.0a
203   \global\@namedef{caption@hj@#1}{#2}}
204 \@onlypreamble\DeclareCaptionJustification
205 %
206 \newcommand*\caption@setjustification[1]{%
207   \@ifundefined{caption@hj@#1}%
208     {\PackageError{caption}{Undefined caption justification `#1'}{\caption@eh}}%
209     {\expandafter\let\expandafter\caption@hj\csname caption@hj@#1\endcsname}}
210 %
211 % Pre-defined justifications
212 %
213 \newcommand\caption@centerfirst{%
214   \edef\caption@normaladjust{%
215     \leftskip\the\leftskip
216     \rightskip\the\rightskip
217     \parfillskip\the\parfillskip\relax}%
218   \leftskip\z@\@plus -1fil%
219   \rightskip\z@\@plus 1fil%
220   \parfillskip\z@skip
221   \noindent\hskip\z@\@plus 2fil%
222   \@setpar{\@par\@restorepar\caption@normaladjust}}
223 \newcommand\caption@centerlast{%
224   \leftskip\z@\@plus 1fil%
225   \rightskip\z@\@plus -1fil%
226   \parfillskip\z@\@plus 2fil\relax}
227 %
228 \DeclareCaptionJustification{justified}{}
229 \DeclareCaptionJustification{centering}{\centering}
230 \DeclareCaptionJustification{centerfirst}{\caption@centerfirst}
231 \DeclareCaptionJustification{centerlast}{\caption@centerlast}
232 \DeclareCaptionJustification{raggedleft}{\raggedleft}
233 \DeclareCaptionJustification{raggedright}{\raggedright}
234 \def\caption@hj@default{\caption@hj@justified}
235 %
236 % ragged2e package support (improved for v3.0b)
237 % -----
238 \DeclareCaptionJustification{Centering}{%
239   \caption@ragged\Centering\centering}
240 \DeclareCaptionJustification{RaggedLeft}{%
241   \caption@ragged\RaggedLeft\raggedleft}
242 \DeclareCaptionJustification{RaggedRight}{%
243   \caption@ragged\RaggedRight\raggedright}

```

```

244 %
245 \newcommand*\caption@ragged[2]{%
246   \@ifundefined{caption\string#1}{%
247     \PackageWarning{caption}{%
248       Cannot locate the 'ragged2e' package, therefore\MessageBreak
249       substituting \string#2 for \string#1\MessageBreak}%
250     \global\@namedef{caption\string#1}}{}%
251   #2}
252 %
253 \AtBeginDocument{\IfFileExists{ragged2e.sty}{%
254   \RequirePackage{ragged2e}\let\caption@ragged\@firstoftwo}}{}
255 % -----
256 %
257 % \DeclareCaptionFont{<name>}{<code>}
258 % \caption@setfont{<command>}{<keyval-list of names>}
259 %
260 \newcommand\DeclareCaptionFont[2]{%   bugfixed v3.0a
261   \define@key{caption@fnt}{#1}[]{\g@addto@macro\caption@tempa{#2}}
262   \@onlypreamble\DeclareCaptionFont
263 %
264 \newcommand*\caption@setfont[2]{%
265   \let\caption@tempa\@empty
266   \begingroup
267     \setkeys{caption@fnt}{#2}%
268   \endgroup
269   \expandafter\let\csname caption#1\endcsname\caption@tempa}
270 %
271 % Pre-defined fonts
272 %
273 \DeclareCaptionFont{default}{}
274 %
275 \DeclareCaptionFont{scriptsize}{\scriptsize}
276 \DeclareCaptionFont{footnotesize}{\footnotesize}
277 \DeclareCaptionFont{small}{\small}
278 \DeclareCaptionFont{normalsize}{\normalsize}
279 \DeclareCaptionFont{large}{\large}
280 \DeclareCaptionFont{Large}{\Large}
281 %
282 \DeclareCaptionFont{up}{\upshape}
283 \DeclareCaptionFont{it}{\itshape}
284 \DeclareCaptionFont{sl}{\slshape}
285 \DeclareCaptionFont{sc}{\scshape}
286 \DeclareCaptionFont{md}{\mdseries}
287 \DeclareCaptionFont{bf}{\bfseries}
288 \DeclareCaptionFont{rm}{\rmfamily}
289 \DeclareCaptionFont{sf}{\sffamily}
290 \DeclareCaptionFont{tt}{\ttfamily}
291 %
292 % Position (default(=bottom)/bottom/top/auto)
293 % ONLY DEFAULT, BOTTOM AND TOP ARE DOCUMENTED YET!

```

```

294 %
295 \newcommand*\caption@setposition[1]{% improved v3.0a
296   \caption@ifinlist{#1}{t,top,above}{%
297     \let\caption@position\@firstoftwo
298   }{\caption@ifinlist{#1}{b,bottom,below,default}{%
299     \let\caption@position\@secondoftwo
300   }{\caption@ifinlist{#1}{a,auto}{%
301     \let\caption@position\@undefined
302   }{%
303     \PackageError{caption}{Undefined caption position '#1'}{\caption@eh}%
304   }}}
305 %
306 \captionsetup[<type>]{<keyval-list of options>}
307 \caption@settype{<type>}
308 %
309 % If 'type' is set, we simply save or append the option list,
310 % otherwise we 'execute' it with \setkeys
311 \changes{v3.0a}{17 Jan 04}{Missing percent added}
312 %
313 \def\captionsetup{\@ifnextchar\caption@setuptype\caption@setup}
314 \def\caption@setuptype[#1]#2{% bugfixed v3.0a
315   \@ifundefined{caption@typ@#1}%
316     {\@namedef{caption@typ@#1}{#2}}%
317     {\expandafter\l@addto@macro\csname caption@typ@#1\endcsname{,#2}}}
318 \def\caption@setup{\setkeys{caption}}
319 %
320 \def\caption@esetup#1{%
321   \edef\caption@tempa{\noexpand\caption@setup{#1}}%
322   \caption@tempa}
323 %
324 % Setting up caption type: Simply execute the saved option list
325 % (For use inside \@caption, \LT@makecaption etc.)
326 %
327 \def\caption@settype#1{%
328   \@ifundefined{caption@typ@#1}{}{%
329     \caption@esetup{\csname caption@typ@#1\endcsname}}}%
330 \let\caption@setfloattype\caption@settype% new v3.0a
331 %
332 \clearcaptionsetup{<type>}
333 %
334 \newcommand*\clearcaptionsetup[1]{\@nameundef{caption@typ@#1}}
335 %
336 \showcaptionsetup[<package>]{<type>}
337 (Note: The optional argument is not documented!)
338 %
339 \newcommand*\showcaptionsetup[2][]{%
340   \def\caption@tempa{#1}%
341   \ifx\caption@tempa\@empty
342     \def\caption@tempa{Caption\space}%
343   \else

```

```

344 \def\caption@tempa{#1 Caption\space}%
345 \fi
346 \GenericWarning{\caption@tempa}{%
347 \caption@tempa Info: KV list on `#2'\MessageBreak
348 Data: (%
349 \@ifundefined{caption@typ@#2}{%
350 % Empty -- print nothing.
351 }{%
352 \@nameuse{caption@typ@#2}%
353 }%
354 )}}
355 %
356 % Hooks (not documented yet...)
357 %
358 \newcommand\caption@beginhook{}
359 \newcommand\caption@endhook{}
360 \newcommand\AtBeginCaption{\l@addto@macro\caption@beginhook}
361 \newcommand\AtEndCaption{\l@addto@macro\caption@endhook}
362 %
363 % We declare options using the keyval package...
364 %
365 % \DeclareCaptionOption{<option>}{<code>}
366 % \DeclareCaptionOption*{<option>}{<code>}
367 %
368 \newcommand\DeclareCaptionOption{%
369 \@ifstar{\caption@declareoption\AtEndOfPackage}{\caption@declareoption\@gobble}
370 \newcommand*\caption@declareoption[2]{%
371 #1{\undefine@key{caption}{#2}}\define@key{caption}{#2}}
372 \@onlypreamble\DeclareCaptionOption
373 \@onlypreamble\caption@declareoption
374 %
375 % ...and here comes the options
376 %
377 \DeclareCaptionOption{default}[]{%
378 \caption@setup{style=default,position=default,aboveskip=10pt,belowskip=0pt}}
379 %
380 \DeclareCaptionOption{style}{\caption@setstyle{#1}}
381 \DeclareCaptionOption{format}{\caption@setformat{#1}}
382 \DeclareCaptionOption{labelformat}{\caption@setlabelformat{#1}}
383 \DeclareCaptionOption{labelsep}{\caption@setlabelseparator{#1}}
384 \DeclareCaptionOption{labelseparator}{\caption@setlabelseparator{#1}}
385 \DeclareCaptionOption{justification}{\caption@setjustification{#1}}
386 \DeclareCaptionOption{size}{\caption@setfont{size}{#1}}% changed v3.0a
387 \DeclareCaptionOption{font}{\caption@setfont{font}{#1}}
388 \DeclareCaptionOption{labelfont}{\caption@setfont{labelfont}{#1}}
389 \DeclareCaptionOption{textfont}{\caption@setfont{textfont}{#1}}
390 \DeclareCaptionOption{margin}{\caption@setmargin{#1}}
391 \DeclareCaptionOption{width}{\caption@setwidth{#1}}
392 \DeclareCaptionOption[indent][\leftmargini]{\setlength\captionindent{#1}}
393 \DeclareCaptionOption[indention][\leftmargini]{\setlength\captionindent{#1}}

```

```

394 \DeclareCaptionOption{parindent}[\parindent]{\setlength\captionparindent{#1}}% c
395 \DeclareCaptionOption{hangindent}[0pt]{\setlength\captionhangindent{#1}}% change
396 \DeclareCaptionOption{parskip}[5pt]{\AtBeginCaption{\setlength\parskip{#1}}}
397 %
398 \DeclareCaptionOption{singlelinecheck}[1]{\caption@setbool{slc}{#1}}
399 \DeclareCaptionOption{aboveskip}{\setlength\abovecaptionskip{#1}}
400 \DeclareCaptionOption{belowskip}{\setlength\belowcaptionskip{#1}}
401 \DeclareCaptionOption{position}{\caption@setposition{#1}}
402 \DeclareCaptionOption{listof}{\caption@setbool{lof}{#1}}% new v3.0b
403 %
404 \DeclareCaptionOption{debug}{\def\caption@debug{#1}}
405 %
406 % Initialize options
407 %
408 \captionsetup{style=default,position=default,listof=1,debug=0}
409 %
410 % \caption@fixposition
411 % \caption@autoposition (new in 3.0b)
412 %
413 \newcommand\caption@fixposition{%
414   \ifx\caption@position\@undefined
415     \caption@autoposition
416   \fi}
417 \newcommand\caption@autoposition{% bugfixed v3.0a
418   \ifvmode
419     \ifodd\caption@debug\relax
420       \edef\caption@tempa{\the\prevdepth}%
421       \PackageInfo{caption}{\protect\prevdepth=\caption@tempa}%
422     \fi
423 %
424 % \caption@setposition{\ifdim\prevdepth>-\p@ b\else t\fi}%
425 % \ifdim\prevdepth>-\p@
426 % \let\caption@position\@secondoftwo
427 % else
428 % \let\caption@position\@firstoftwo
429 % fi
430 % else
431 % \ifodd\caption@debug\relax
432 % \PackageInfo{caption}{no \protect\prevdepth}%
433 % fi
434 %
435 % \caption@setposition{b}%
436 % \let\caption@position\@secondoftwo
437 % fi}
438 %
439 % \caption@iftop{<true-code>}{<false-code>}
440 % (If \caption@position is not set we assume a "bottom" position.)
441 %
442 \newcommand\caption@iftop{% bugfixed v3.0a
443   \ifx\caption@position\@firstoftwo

```

```

444 \expandafter\@firstoftwo
445 \else
446 \expandafter\@secondoftwo
447 \fi}
448 %
449 % Typeset caption
450 %
451 \newcommand\caption@make[2]{%
452 \caption@@make{\caption@lfmt{#1}{#2}}}
453 %
454 \newcommand\caption@@make[2]{%
455 \caption@beginhook
456 %
457 \caption@calcmargin
458 \advance\captionmargin by \captionindent
459 \advance\captionwidth by -\captionindent
460 \hskip\captionmargin
461 \vbox{\hsize=\captionwidth
462 % Bugfix v3.0b
463 \ifdim\captionindent=\z@\else
464 \hskip-\captionindent
465 \fi
466 %
467 % Special single-line treatment
468 %
469 \caption@ifslc{%
470 \ifx\caption@sls\@empty\else
471 \caption@beginslc
472 \sbox\@tempboxa{\caption@@make{#1}{#2}}%
473 \ifdim\wd\@tempboxa >\hsize
474 \caption@endslc
475 \else
476 \caption@endslc
477 \caption@esetup\caption@sls
478 \fi
479 \fi}{}%
480 %
481 \captionsize\captionfont\strut
482 \caption@@make{#1}{#2}}%
483 %
484 \caption@endhook
485 \global\caption@starfalse}
486 %
487 % Calculate \captionmargin & \captionwidth
488 %
489 \newcommand\caption@calcmargin{%
490 \ifcaption@width
491 \captionmargin\hsize
492 \advance\captionmargin by -\captionwidth
493 \divide\captionmargin by 2

```

```

494 \else
495   \captionwidth\hsize
496   \advance\captionwidth by -2\captionmargin
497 \fi
498 %
499 \ifodd\caption@debug\relax
500   \PackageInfo{caption}{\protect\hsize=\the\hsize,
501     \protect\margin=\the\captionmargin,
502     \protect\width=\the\captionwidth}%
503 \fi}
504 %
505 % Re-define anything which would disturb the single line check
506 % Bugfix v3.0b: re-definition of \label was missing here
507 % Improvement v3.0b: Better solution
508 %
509 \newcommand\caption@beginslc{%
510   \begingroup
511   \let\label\@gobble\let\@footnotetext\@gobble
512   \def\stepcounter##1{\advance\c@##1\endcsname\@ne\relax}}
513 % - or -
514 % \edef\caption@restore{%
515 %   \noexpand\setcounter{footnote}{\the\value{footnote}}%
516 %   \noexpand\setcounter{mpfootnote}{\the\value{mpfootnote}}}
517 \newcommand\caption@endslc{%
518 %   \caption@restore
519   \endgroup}
520 %
521 % Typeset caption paragraph
522 %
523 \newcommand\caption@@@make[2]{%
524 %
525 % |\caption*|? Use no caption label and separator!
526 %
527   \ifcaption@star
528     \let\caption@lfmt\@gobbletwo
529     \let\caption@lsep\relax
530   \fi
531 %
532 % Empty text? Use no caption label separator!
533 %
534   \def\caption@tempa{#2}%
535   \def\caption@tempb{\ignorespaces}%
536   \ifx\caption@tempa\caption@tempb
537     \let\caption@tempa\@empty
538   \fi
539   \ifx\caption@tempa\@empty
540     \let\caption@lsep\relax
541   \fi
542 %
543 % Typeset the caption!

```



```

544 %
545 \def\caption@par{%
546   \parindent\captionparindent\hangindent\captionhangindent}%
547 \@setpar{\@@par\caption@par}\caption@par
548 %
549 % (Bugfixed in v3.0b: \allowhyphens added)
550 \caption@hj\captionsize\captionfont
551 \caption@fmt{{\captionlabelfont#1}}%
552           {{\captionlabelfont\caption@lsep}}%
553           {{\captiontextfont\nobreak\hskip\z@skip#2\par}}}

```

11.2 Package

```

554 %\NeedsTeXFormat{LaTeX2e}[1994/12/01]
555 %\ProvidesPackage{caption}[2004/xx/xx v3.1 Customising captions (AS)]
556 %\RequirePackage{caption3}
557 %
558 % Add option for loading configuration file
559 %
560 \DeclareCaptionOption{config}[caption]{%
561   \InputIfFileExists{#1.cfg}{\typeout{*** Local configuration file
562                                     #1.cfg used ***}}%
563   {\PackageWarning{caption}{Configuration
564     file #1.cfg not found}}}
565 %
566 % \changes{v3.0a}{9 Jan 04}{Options 'figureposition' and 'tableposition' added}
567 \DeclareCaptionOption*{figureposition}{\captionsetup[figure]{position=#1}}% new
568 \DeclareCaptionOption*{tableposition}{\captionsetup[table]{position=#1}}% new
569 %
570 % Simulation of the old (caption v1.x) options:
571 %
572 \DeclareCaptionOption*{normal}[]{\caption@setformat{normal}}
573 \DeclareCaptionOption*{isu}[]{\caption@setformat{hang}}
574 \DeclareCaptionOption*{hang}[]{\caption@setformat{hang}}
575 \DeclareCaptionOption*{center}[]{\caption@setjustification{centering}}
576 \DeclareCaptionOption*{anne}[]{\caption@setjustification{centerlast}}
577 \DeclareCaptionOption*{centerlast}[]{\caption@setjustification{centerlast}}
578 %
579 \DeclareCaptionOption*{nooneline}[]{\caption@setbool{slc}{0}}
580 %
581 \DeclareCaptionOption*{scriptsize}[]{\def\captionfont{\scriptsize}}
582 \DeclareCaptionOption*{footnotesize}[]{\def\captionfont{\footnotesize}}
583 \DeclareCaptionOption*{small}[]{\def\captionfont{\small}}
584 \DeclareCaptionOption*{normalsize}[]{\def\captionfont{\normalsize}}
585 \DeclareCaptionOption*{large}[]{\def\captionfont{\large}}
586 \DeclareCaptionOption*{Large}[]{\def\captionfont{\Large}}
587 %
588 \DeclareCaptionOption*{up}[]{\l@addto@macro\captionlabelfont\upshape}
589 \DeclareCaptionOption*{it}[]{\l@addto@macro\captionlabelfont\itshape}
590 \DeclareCaptionOption*{sl}[]{\l@addto@macro\captionlabelfont\slshape}

```

```

591 \DeclareCaptionOption*{sc}[]{\l@addto@macro\captionlabelfont\scshape}
592 \DeclareCaptionOption*{md}[]{\l@addto@macro\captionlabelfont\mdseries}
593 \DeclareCaptionOption*{bf}[]{\l@addto@macro\captionlabelfont\bfseries}
594 \DeclareCaptionOption*{rm}[]{\l@addto@macro\captionlabelfont\rmfamily}
595 \DeclareCaptionOption*{sf}[]{\l@addto@macro\captionlabelfont\sffamily}
596 \DeclareCaptionOption*{tt}[]{\l@addto@macro\captionlabelfont\ttfamily}
597 %
598 \caption@setbool{ruled}{0}
599 \DeclareCaptionOption*{ruled}[]{\caption@setbool{ruled}{1}}
600 %
601 % Options for foreign package support
602 %
603 \newcommand*\DeclareCaptionPackage[1]{%
604   \caption@setbool{pkt@#1}{1}%
605   \DeclareCaptionOption*{#1}{\caption@setbool{pkt@#1}{##1}}}
606 %
607 % Compatible packages
608 % (new in v3.0b: The listings package)
609 %
610 \DeclareCaptionPackage{caption}
611 \DeclareCaptionPackage{float}
612 \DeclareCaptionPackage{listings}
613 \DeclareCaptionPackage{longtable}
614 \DeclareCaptionPackage{rotating}
615 \DeclareCaptionPackage{sidecap}
616 \DeclareCaptionPackage{supertabular}
617 %
618 \let\DeclareCaptionPackage\@undefined
619 %
620 % We process our options using the keyval package
621 %
622 \def\ProcessOptionsWithKV#1{% bugfixed v3.0a
623   \let\@tempc\relax
624   \let\caption@tempa\@empty
625   \@for\CurrentOption:=\@classoptionslist\do{%
626     \@ifundefined{KV@#1@\CurrentOption}%
627     {}%
628     {%
629       \edef\caption@tempa{\caption@tempa,\CurrentOption,}%
630       \@expandtwoargs\@removeelement\CurrentOption
631       \@unusedoptionlist\@unusedoptionlist
632     }%
633   }%
634   \edef\caption@tempa{%
635     \noexpand\setkeys{#1}{%
636       \caption@tempa\@optionlist{\@currname.\@currentx}%
637     }%
638   }%
639   \caption@tempa
640 % Bugfix, see <400D360C.9678329F@gmx.net> for details

```

```

641 \let\CurrentOption\@empty
642 \AtEndOfPackage{\let\unprocessedoptions\relax}}
643 \ProcessOptionsWithKV{caption}
644 \let\ProcessOptionsWithKV\@undefined
645 %
646 % \captionof(*)
647 %
648 \def\captionof{\@ifstar{\caption@of{\caption*}}{\caption@of\caption}}
649 \newcommand*\caption@of[2]{\def\@capytype{#2}#1}
650 %
651 % ContinuedFloat
652 %
653 \providecommand\ContinuedFloat{%
654   \ifx\@capytype\@undefined
655     \@latex@error{\noexpand\ContinuedFloat outside float}\@ehd
656   \else
657     \addtocounter{\@capytype}{\m@ne}%
658   \fi}%
659 %
660 % \caption@floatname{<type>}
661 % \caption@thefloat{<type>}
662 %
663 \newcommand*\caption@floatname[1]{\@nameuse{#1name}}
664 \newcommand*\caption@thefloat[1]{\@nameuse{the#1}}
665 %
666 % \caption@letfloattype{<type>}
667 % (new in caption 3.0b)
668 %
669 \def\caption@letfloattype#1{%
670   \def\caption@setfloattype##1{%
671     \caption@settype{##1}\caption@settype{#1}}}
672 %
673 % \caption@begin{<type>} (changed in v3.0b)
674 % \caption@beginex{<type>}{<list entry>}
675 % \caption@end
676 %
677 \newcommand*\caption@begin[1]{%
678   \begingroup
679   \caption@setfloattype{#1}%
680   \@namedef{fnum#1}{%
681     \caption@lfmt{\caption@floatname{#1}}{\caption@thefloat{#1}}}%
682 %
683   \caption@fixposition
684   \global\let\caption@fixedposition\caption@position
685 %
686   \caption@@begin{#1}}
687 \newcommand*\caption@beginex[1]{%
688   \caption@begin{#1}%
689   \caption@preparelof}
690 \newcommand*\caption@end{%

```

```

691 \caption@@end
692 \endgroup
693 %
694 \let\caption@position\caption@fixedposition}
695 %
696 % \caption@@begin{<type>}
697 % \caption@@end
698 %
699 \let\caption@@begin\@gobble% new v3.0a
700 \let\caption@@end\@empty% new v3.0a
701 %
702 \caption@preparelof{<list entry>}
703 %
704 \newcommand*\caption@preparelof[1]{% changed v3.0b
705 \caption@ifbool{lof}%
706 {\def\caption@tempa{#1}}%
707 {\let\caption@tempa\@empty}%
708 \ifx\caption@tempa\@empty
709 \def\addcontentsline##1##2##3{%
710 \fi}
711 %
712 CAPTION SUPPORT
713 % =====
714 %
715 \caption@ifpkt@caption{
716 %
717 % \@makecaption{<label>}{<text>}
718 %
719 \renewcommand\@makecaption[2]{%
720 \caption@iftop{\vskip\belowcaptionskip}{\vskip\abovecaptionskip}%
721 \ifnum\caption@debug>1 %
722 \llap{$\caption@iftop\downarrow\uparrow$ }%
723 \fi
724 \caption@@make{#1}{#2}%
725 \caption@iftop{\vskip\abovecaptionskip}{\vskip\belowcaptionskip}}
726 %
727 \AtBeginDocument{%
728 %
729 % Define \caption[]{...} ...
730 %
731 \let\caption@@old\@caption
732 \long\def\@caption#1[#2]#3{%
733 \caption@beginex{#1}{#2}%
734 \caption@@old{#1}[{#2}]{#3}%
735 \caption@end}%
736 %
737 % Define \caption* ...
738 % (07/18/03: \global added, so this works with sidecap)
739 %
740 \@ifundefined{cc@caption}{%

```

```

741 \def\caption@caption#1{%
742 \ifstar{\global\caption@startrue\ifnextchar[{#1}{#1[]]}{#1}}%
743 \let\caption@old\caption
744 \def\caption{\caption@caption\caption@old}%
745 }{%
746 \let\caption@@captcont\cc@scaption
747 \long\def\cc@scaption#1[#2]#3{%
748 \caption@beginex{#1}{#2}%
749 \caption@@captcont{#1}[{#2}]{#3}%
750 \caption@end}%
751 }%
752 }{}%
753 \AtEndOfPackage{\let\caption@ifpkt@caption\@undefined}% bugfixed v3.0a
754 %
755 % GENERIC PACKAGE SUPPORT
756 % =====
757 %
758 \newcommand*\caption@ifpackage[2]{%
759 \let\next\@gobble
760 %
761 \caption@ifpkt@caption{%
762 \caption@ifbool{pkt@#1}{%
763 \@ifundefined{#2}%
764 {\let\next\AtBeginDocument}%
765 {\let\next\@firstofone}}}%
766 %
767 \ifodd\caption@debug\relax
768 \edef\caption@tempa{%
769 \caption@ifbool{pkt@#1}{%
770 \@ifundefined{#2}{AtBeginDocument}{firstofone}%
771 }{gobble}}%
772 \PackageInfo{caption}{#1 = \caption@ifbool{pkt@#1}{1}{0} %
773 (\@ifundefined{#2}{not }{loaded -> \caption@tempa)}%
774 \fi
775 }{}%
776 %
777 \@nameundef{caption@ifpkt@#1}% bugfixed v3.0a
778 \next}
779 \AtEndOfPackage{\let\caption@ifpackage\@undefined}
780 %
781 % FLOAT SUPPORT
782 % =====
783 %
784 \def\caption@setfloatposition{%
785 \caption@setposition{\@fs@iftopcapt t\else b\fi}}
786 %
787 \caption@ifpackage{float}{float@caption}{%
788 \ifx\float@caption\relax
789 \else
790 \PackageInfo{caption}{float package v1.2 (or newer) detected}%

```

```

791 %
792 % Note that this version of \captionof works only with float 1.3 (or newer)
793 %
794 \let\caption@of@float\@gobble
795 \renewcommand*\caption@of[2]{%
796   \@ifundefined{fst@#2}{}{%
797     \let\caption@of@float\@firstofone
798     \@nameuse{fst@#2}\@float@setevery{#2}}%
799 %
800   \def\@captype{#2}#1}%
801 %
802 \renewcommand*\caption@floatname[1]{%
803   \@nameuse{\@ifundefined{fname@#1}{#1name}{fname@#1}}}%
804 %
805 \let\caption@@float\float@caption
806 \long\def\float@caption#1[#2]#3{%
807   \caption@beginex{#1}{#2}%
808   \let\@fs@capt\caption@@make
809   \caption@@float{#1}[#2]#3}%
810 %
811   \caption@of@float{%
812     \def\caption@@make##1##2{\unvbox\@floatcapt}%
813     \makecaption{}{}}%
814   \caption@end}%
815 %
816 \renewcommand*\caption@setfloattype[1]{% improved v3.0a
817   \caption@fixfloat@c{#1}%
818   \expandafter\ifx\csname @float@c@#1\endcsname\float@caption
819 % This float is defined with \newfloat or \restylefloat, not with \restyle
820   \expandafter\let\expandafter\caption@fst\csname fst@#1\endcsname
821   \edef\caption@fst{\noexpand\string\expandafter\noexpand\caption@fst}%
822   \edef\caption@fst{\noexpand\@gobblefour\caption@fst}%
823   \edef\caption@fst{\caption@fst}%
824 % |\caption@fst| now contains the float style (e.g. ``ruled'')
825   \@ifundefined{caption@sty@\caption@fst}{}{\caption@setstyle\caption@fst}
826   \caption@setfloatposition% changed v3.0b
827 \fi
828   \caption@settype{#1}}%
829 %
830 % If you think this works fine, you are in a big error!
831 % The problem is that \newfloat and \restylefloat (of float 1.3) saves the
832 % *ACTUAL* definition of \@caption and \float@caption with \let, so our own
833 % \@caption (and of course our own \float@caption) will never been called if
834 % the \newfloat or \restylefloat takes place in the preamble of the document!
835 %
836 % So we have to correct this for ourself:
837 % We patch \caption again, this time we determine if the user has used
838 % \restylefloat or \restylefloat*. This is quite easy, if \@float@c@<captype>
839 % is the same as the original or our own definition of \float@caption, the
840 % user has used \restylefloat (and \float@caption should be used), otherwise

```

```

841% we assume he has used \restylefloat* (and \@caption should be used).
842% (This test will only fail if some other package re-defines \float@caption,
843% too.)
844%
845 \let\caption@float\caption
846 \def\caption{%
847 \ifx\@capytype\@undefined
848 \latex@error{\noexpand\caption outside float}\@ehd
849 \expandafter\@gobble
850 \else
851 Let's bring \@float@c@<capytype> up-to-date!
852 \caption@fixfloat@c@\@capytype
853 \fi
854 \caption@float}%
855%
856 \def\caption@fixfloat@c#1{%
857 \expandafter\let\expandafter\caption@tempa\csname @float@c@#1\endcsname
858 \ifx\caption@tempa\relax
859 \else\ifx\caption@tempa\float@caption
860 \else\ifx\caption@tempa\@caption
861 \else\ifx\caption@tempa\caption@@float
862 \ifodd\caption@debug\relax
863 \PackageInfo{caption}{\protect\@float@c@#1\space := \protect\float@cap
864 \fi
865 \expandafter\let\csname @float@c@#1\endcsname\float@caption
866 \else
867 \ifodd\caption@debug\relax
868 \PackageInfo{caption}{\protect\@float@c@#1\space := \protect\@caption}
869 \fi
870 \expandafter\let\csname @float@c@#1\endcsname\@caption
871 \fi\fi\fi\fi}%
872%
873 \fi}
874%
875 \caption@ifbool{ruled}{}{}%
876 \DeclareCaptionStyle{ruled}{labelfont=bf,labelsep=space}}
877 \let\caption@ifruled\@undefined
878%
879% LISTINGS SUPPORT (new in 3.0b)
880% =====
881%
882 \caption@ifpackage{listings}{lst@MakeCaption}{%
883 \ifx\lst@MakeCaption\relax
884 \else
885 \PackageInfo{caption}{listings package v1.2 (or newer) detected}%
886%
887 \let\caption@lst@MakeCaption\lst@MakeCaption
888 \def\lst@MakeCaption#1{%
889 \let\caption@setfloattype\caption@settype
890 \def\caption@autoposition{\caption@setposition{#1}}%

```

```

891 \caption@begin{lstlisting}%
892 \caption@lst@MakeCaption{#1}%
893 \caption@end}%
894 %
895 \fi}
896 %
897 % LONGTABLE SUPPORT
898 % =====
899 %
900 \caption@ifpackage{longtable}{LT@makecaption}{%
901 \ifx\LT@makecaption\relax
902 \else
903 \PackageInfo{caption}{longtable package v3.15 (or newer) detected}%
904 %
905 % Original code:
906 \def\LT@makecaption#1#2#3{%
907 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]{LTcapwidth{%
908 % Based on article class "\@makecaption", "#1" is "\@gobble" in star
909 % form, and "\@firstofone" otherwise.
910 \sbox\@tempboxa{#1{#2: }#3}%
911 \ifdim\wd\@tempboxa>\hsize
912 #1{#2: }#3%
913 \else
914 \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
915 \fi
916 \endgraf\vskip\baselineskip}%
917 \hss}}}%
918 %
919 \def\LT@makecaption#1#2#3{%
920 \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]{linewidth{%
921 %
922 \caption@letfloattype{longtable}%
923 \caption@begin{table}%
924 \ifdim\LTcapwidth=4in \else
925 \caption@setwidth\LTcapwidth
926 \fi
927 \caption@startrue#1\caption@starfalse
928 \caption@@make{#2}{#3}%
929 \caption@end
930 %
931 \endgraf\vskip\baselineskip}%
932 \hss}}}%
933 %
934 \fi}
935 %
936 % ROTATING SUPPORT
937 % =====
938 %
939 \caption@ifpackage{rotating}{@rotcaption}{%
940 \ifx\@rotcaption\relax

```



```

941 \else
942 \PackageInfo{caption}{rotating package v2.0 (or newer) detected}%
943 %
944 \@ifundefined{caption@caption}{}{%
945 \let\caption@rot\rotcaption
946 \def\rotcaption{\caption@caption\caption@rot}}%
947 %
948 \let\caption@@rot\@rotcaption
949 \long\def\@rotcaption#1[#2]#3{%
950 \caption@beginex{#1}{#2}%
951 \caption@@rot{#1}[{#2}]{#3}%
952 \caption@end}%
953 %
954 % Original code:
955 \long\def\@makerotcaption#1#2{%
956 \setbox\@tempboxa\hbox{#1: #2}%
957 \ifdim \wd\@tempboxa > .8\vsiz
958 \rotatebox{90}{%
959 \begin{minipage}{.8\textheight}#1: #2\end{minipage}%
960 } \par
961 \else%
962 \rotatebox{90}{\box\@tempboxa}%
963 \fi
964 \hspace{12pt}%
965 }
966 %
967 \long\def\@makerotcaption#1#2{%
968 \rotatebox{90}{%
969 \begin{minipage}{.8\textheight}%
970 \caption@make{#1}{#2}%
971 \end{minipage}%
972 } \par
973 \hspace{12pt}}%
974 %
975 \fi}
976 %
977 % SIDECAP SUPPORT
978 % =====
979 %
980 \caption@ifpackage{sidecap}{endSC@FLOAT}{%
981 \ifx\endSC@FLOAT\relax
982 \else
983 \PackageInfo{caption}{sidecap package v1.4d (or newer) detected}%
984 %
985 % First of all, we let sidecap use an actual definition of \caption:
986 % (This is only required for version 1.5d of the sidecap package.)
987 %
988 \let\SC@caption=\caption
989 %
990 % Make \caption* and local settings (\captionsetup) work

```

```

991 %
992 \@ifundefined{caption@caption}{}{%
993 \let\caption@SC@zfloat\SC@zfloat
994 \def\SC@zfloat#1#2#3[#4]{%
995 \caption@SC@zfloat{#1}{#2}{#3}[#4]%
996 %
997 \global\let\SC@CAPsetup\@empty
998 \renewcommand\captionsetup[1]{\g@addto@macro\SC@CAPsetup{,##1}}%
999 %
1000 \let\caption@old\caption
1001 \def\caption{\renewcommand\captionsetup[1]{}\caption@caption\caption@old}
1002 \def\caption{\caption@caption\caption@old}%
1003 }}%
1004 %
1005 % Before typesetting the caption, we set the captionmargin to zero
1006 % because the extra margin is only disturbing here.
1007 % (We don't need to take care about the caption position because
1008 % the sidecap package set both \abovecaptionskip and \belowcaptionskip
1009 % to a skip of zero anyway.)
1010 % Furthermore \SC@justify will override the caption justification, if set.
1011 %
1012 % Very old version (1.4): \SC@justify is not defined
1013 % Older versions (1.5): \SC@justify is \relax when not set
1014 % Newer versions (1.6): \SC@justify is \@empty when not set
1015 %
1016 \let\caption@endSC@FLOAT\endSC@FLOAT
1017 \def\endSC@FLOAT{%
1018 \caption@setmargin\z@
1019 %
1020 \@ifundefined{SC@justify}{}{%
1021 \ifx\SC@justify\@empty\else
1022 \let\caption@hj\SC@justify
1023 \let\SC@justify\@empty
1024 \fi}%
1025 %
1026 \caption@esetup\SC@CAPsetup
1027 \caption@letfloattype{SC\@captype}%
1028 %
1029 \caption@endSC@FLOAT}%
1030 %
1031 \fi}
1032 %
1033 % SUPERTABULAR SUPPORT
1034 % =====
1035 %
1036 \def\caption@setSTposition{%
1037 \caption@setposition{\if@topcaption t\else b\fi}}
1038 %
1039 \caption@ifpackage{supertabular}{ST@caption}{%
1040 \ifx\ST@caption\relax

```

```

1041 \else
1042 \PackageInfo{caption}{supertabular package detected}%
1043 %
1044 % Original code:
1045 \long\def\ST@caption#1[#2]#3{\par%
1046 \addcontentsline{\csname ext@#1\endcsname}{#1}%
1047 {\protect\numberline{%
1048 \csname the#1\endcsname}}{\ignorespaces #2}}
1049 \beginngroup
1050 \parboxrestore
1051 \normalsize
1052 \if@topcaption \vskip -10\p@ \fi
1053 \@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
1054 \if@topcaption \vskip 10\p@ \fi
1055 \endgroup}
1056 %
1057 \let\caption@ST\ST@caption
1058 \long\def\ST@caption#1[#2]#3{\par% bugfixed v3.0a
1059 \caption@letfloattype{supertabular}%
1060 \let\caption@fixposition\caption@setSTposition
1061 \caption@beginex{#1}{#2}%
1062 \addcontentsline{\csname ext@#1\endcsname}{#1}%
1063 {\protect\numberline{%
1064 \csname the#1\endcsname}}{\ignorespaces #2}}%
1065 \parboxrestore
1066 \normalsize
1067 \@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
1068 \caption@end}%
1069 %
1070 \fi}
1071 %
1072 % KOMA-SCRIPT SUPPORT
1073 % =====
1074 %
1075 \changes{v3.0a}{18 Jan 04}{Minimum adaption to KOMA-Script}
1076 \AtBeginDocument{\let\scr@caption\caption}

```

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