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 v3.0c, last revised 2004/07/16.

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 [\langle options \rangle] \{caption\} [2004/07/16]
```

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

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

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 $\langle float\ type \rangle$ see section 4: "Useful stuff".)

3 Options

3.1 Formatting

format=

A figure or table caption mainly consits 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

 $format = \langle format \ name \rangle$

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 de-

fault behaviour, it is adapted from the standard LATEX document

classes.)

hang Indents the caption text, so it will 'hang' under the first line of the

text.

An example: Specifing 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.

indention=

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

 $indention = \langle amount \rangle$.

Two examples:

format=default,indention=.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,indention=-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

labelformat= $\langle label format name \rangle$

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

empty The caption label will be empty. This option only makes sense when used together with other options like labelsep=none.

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

simple The caption label will be typeset as a name and a number. (This

is the default behaviour.)

parens 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:

used together with other options like labelformat=empty.

colon The caption label and text will be separated by a colon and a

space. (This is the default one.)

period The caption label and text will be separated by a period and a

space.

space The caption label and text will be separated by a single space.

quad The caption label and text will be separated by a \quad.

newline The caption label and text will be separated by a line break

 $(\newline).$

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, singlelinecheck=false

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

 $justification = \langle justification \ name \rangle$

You can choose one of the following:

justified Typesets the caption as a normal paragraph. (This is the default.)

centering Each line of the caption will be centered.

centerlast The last line of each paragraph of the caption text will be centered.

centerfirst Only the first line of the caption will be centered.

raggedright Each line of the caption will be moved to the left margin.

RaggedRight Each line of the caption will be moved to the left margin, too. But

this time the command \RaggedRight of the ragged2e package will be used to achieve this. This difference is that this time the word

breaking algorithm of TEX will work inside the caption.

raggedleft 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 LATEX 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

 $singlelinecheck=\{\langle bool \rangle\}$.

Using false, no, off or 0 for $\langle bool \rangle$ 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 $\langle bool \rangle$ you switch on the extra centering again. (The default is on.)

3.3 Fonts

font=
labelfont=
textfont=

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 (testfont). You set them up using the options

And these are the available font options:

scriptsize Very small size

footnotesize The size usually used for footnotes

Large Even larger size

up Upright shape

it Italic shape

sl Slanted shape

SC SMALL CAPS SHAPE

md Medium series

bf Bold series

rm Roman family

sf Sans Serif family

tt 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 width= this using the options

```
margin=\langle amount \rangle or width=\langle amount \rangle
```

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. If specifies the extra vertical space inserted between them:

```
parskip=\langle amount \rangle
```

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=\langle amount \rangle
```

is for setting up a hanging indention 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 indention= you already know about. But if the caption contains multiple paragraphs you will notice the difference:

```
format=hang,indention=-.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=\langle style \ name \rangle .
```

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

```
style=default
```

has the same effect as specifing 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=
belowskip=

The spaces above and below the caption are controlled by the skips \abovecaptionskip and \belowcaptionskip. The standard LATEX 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=\langle amount \rangle and belowskip=\langle amount \rangle.
```

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 Opt.)

Please compare the spacing in these small tables:

	A B
Table 1: A table	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:

(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

```
\cite{caption} [\langle lst\_entry \rangle] \{\langle heading \rangle\}
```

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 $\langle lst_entry \rangle$ 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{longtable}
\end{table}
```

\captionof \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

```
\colon \{ \langle float\ type \rangle \} [\langle lst\_entry \rangle] \{ \langle heading \rangle \}.
```

Note that the first argument, the $\langle float\ type \rangle$, 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

```
\colon = \{ \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\{\langle name \rangle\}\{\langle code \ using \ \#1, \ \#2 \ and \ \#3 \rangle\}.
```

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:

```
\verb|\DeclareCaptionLabelFormat|{\langle name \rangle}| {\langle code \ using \ \#1 \ and \ \#2 \rangle}|
```

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

\bothIfFirst \bothIfSecond

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

```
\bothIfFirst{\langle first \ arg \rangle}{\langle second \ arg \rangle} and \bothIfSecond{\langle first \ arg \rangle}{\langle second \ arg \rangle}
```

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 \mathtt{simple} is defined as

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

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

\DeclareCaptionLabelSeparatorYou can define your own caption label separators with

```
\DeclareCaptionLabelSeparator\{\langle name \rangle\} \{\langle code \rangle\} .
```

Again an easy example taken from caption.sty itself:

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

\DeclareCaptionJustification You can define your own caption justifications with

```
\DeclareCaptionJustification\{\langle name \rangle\}\{\langle code \rangle\} .
```

The $\langle code \rangle$ 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\{\langle name \rangle\}\{\langle code \rangle\} .
```

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

```
\verb|\DeclareCaptionStyle{} \langle name \rangle| [\langle additional\ options \rangle] \{\langle options \rangle| \}|
```

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 $style=\langle style\ name \rangle$.

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 $\langle additional\ options \rangle$ 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:

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

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 v3.0c

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

7 Using other packages

The caption package contains special adaptions 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:

float Gives you the possibility to define new floating environments

listings Typesets source code listings

longtable Typesets tables spanned over multiple pages

rotating Supports rotated figures and tables sidecap Offers captions beside figures or tables supertabular 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

```
\colon = \
```

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

For example specifing 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 LATEX 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 LATEX. While the latter one is only a recommendation to LATEX 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.

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 LATEX. 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 sidewaystable 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.

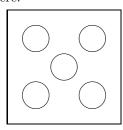


Figure 29: A small example with the caption beside the figure.

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 LATEX 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, hyfloat, 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
\strut_{\continuous}	$\mathtt{margin=}\langle amount \rangle$
\renewcommand{\captionfont}	\DeclareCaptionFont
	$+ \colone {font=\langle name \rangle}$
\renewcommand{\captionsize}	\DeclareCaptionFont
	$+ \colone {font=\langle name \rangle}$
\renewcommand{\captionlabelfont}	\DeclareCaptionLabelFont
	$+ \colone { labelfont= \langle name \rangle }$

8.2 caption 2 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:

 \bullet The TeX FAQ - Frequently asked questions about TeX and LaTeX:

```
http://faq.tug.org/
```

• A French FAQ can be found at

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

 \bullet epslatex from Keith Reckdahl contains many tips around graphics in LaTeX $2_{\mathcal{E}}$. 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}[2004/07/16 v3.0c 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]{%
   \expandafter\let\csname #1\endcsname\@undefined}
13 %
14 \providecommand\l@addto@macro[2] {%
    \begingroup
15
      \toks@\expandafter{#1#2}%
16
      \edf\edf\noexpand#1{\theta\the\toks@}}%
17
18
19 %
20 \def\bothIfFirst#1#2{%
    \protected@edef\caption@tempa{#1}%
    \ifx\caption@tempa\@empty\else
      #1#2%
23
^{24}
   \fi}
25 \def\bothIfSecond#1#2{%
    \protected@edef\caption@tempa{#2}%
27
    \ifx\caption@tempa\@empty\else
      #1#2%
28
    \fi}
29
30 %
31 \def\caption@ifinlist#1#2{%
    \let\next\@secondoftwo
33
    \edef\caption@tempa{#1}%
34
    \@for\caption@tempb:={#2}\do{%
      \ifx\caption@tempa\caption@tempb
35
        \let\next\@firstoftwo
36
      fi}%
37
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{%
    \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
      \PackageError{caption}{Undefined boolean value '#2'}{\caption@eh}%
50
51
52 %
53 \def\caption@ifbool#1{\@nameuse{caption@if#1}}
54 %
55\ \% Obsolete stuff for compatiblity to caption.sty v1.3
56 %
57 \% \changes{v3.0a}{16 Jul 04}{Minimum adaption to the memoir class}
58 \providecommand\captionsize{}% changed v3.0a+c
60 % Margin resp. width
61 %
62 \newdimen\captionmargin
63 \newdimen\captionwidth
64 \newif\ifcaption@width
65 \newcommand\caption@setmargin{%
    \caption@widthfalse
67
    \setlength\captionmargin}
68 \mbox{ \newcommand\caption@setwidth} \
    \caption@widthtrue
    \setlength\captionwidth}
70
71 %
72 % Indentions
73 %
74 \newdimen\captionindent
75 \newdimen\captionparindent
76 \newdimen\captionhangindent
77 %
78 % Support of \caption*
80 \newif\ifcaption@star
81 %
82 % Vertical spaces before/after captions
83 %
84 \@ifundefined{abovecaptionskip}{%
    \newlength\abovecaptionskip\setlength\abovecaptionskip{10\p0}}{}
86 \@ifundefined{belowcaptionskip}{%
    88 %
89 % Error
90 %
91 \newcommand\caption@eh{%
92 If you do not understand this error, please take a closer look\MessageBreak
93 at the documentation of the 'caption' package.\MessageBreak
    \@ehc}
94
95 %
96\ \% Loading the keyval package
97 % (We need it for option handling)
98 %
99 \RequirePackage{keyval}[1997/11/10]
100 \providecommand*\undefine@key[2]{%
    \Onameundef{KVO#10#2}\Onameundef{KVO#10#20default}}
102 %
```

```
103 % Reset to default parameters
104 % (Note that this does not touch the skips and the positioning.)
105 %
106 \newcommand\caption@setdefault{\captionsetup{%
    format=default, labelformat=default, labelsep=default, justification=default, %
    font=default,labelfont=default,textfont=default,%
    margin=0pt,indention=0pt,parindent=0pt,hangindent=0pt,singlelinecheck}}
109
110 %
111 % \DeclareCaptionStyle{<name>}[<additional(!) single-line-list-of-KV>]{list-of-KV>}
112 % \caption@setstyle{<name>}
113 %
114\,\% (Bugfix v3.0a: We pass through argument #3 so extra spaces between the
115 % arguments do make any harm.)
116 %
117 \newcommand*\DeclareCaptionStyle[1]{%
    \@ifnextchar[{\caption@declarestyle{#1}}{\caption@declarestyle{#1}[]}}
119 \def\caption@declarestyle#1[#2]#3{% bugfixed v3.0a
    \global\@namedef{caption@sls@#1}{#2}%
     \global\@namedef{caption@sty@#1}{#3}}
122 \@onlypreamble\DeclareCaptionStyle
123 \@onlypreamble\caption@declarestyle
124 %
125 \newcommand*\caption@setstyle[1]{%
    \@ifundefined{caption@sty@#1}%
       {\PackageError{caption}{Undefined caption style '#1'}{\caption@eh}}%
127
128
       \verb|\caption@setdefault\\caption@esetup{\csname caption@sty@#1\\endcsname}}| 
129
130 %
131 % Pre-defined styles
132 %
133 \DeclareCaptionStyle{default}[justification=centering]{}
135 % \DeclareCaptionFormat{<name>}{<code with #1, #2, and #3>}
136 % \caption@setformat{<name>}
137 %
138 \newcommand\DeclareCaptionFormat[2]{% bugfixed v3.0a
    \global\long\expandafter\def\csname caption@fmt@#1\endcsname##1##2##3{#2}}
140 \@onlypreamble\DeclareCaptionFormat
141 %
142 \newcommand*\caption@setformat[1]{%
    \@ifundefined{caption@fmt@#1}%
       {\PackageError{caption}{Undefined caption format '#1'}{\caption@eh}}%
144
145
       {\expandafter\let\expandafter\caption@fmt\csname caption@fmt@#1\endcsname}}
146 %
147 % Pre-defined formats
149 \DeclareCaptionFormat{normal}{#1#2#3\par}
150 \DeclareCaptionFormat{hang}{%
151
    \@hangfrom{#1#2}%
152
    \advance\captionparindent\hangindent
     \advance\captionhangindent\hangindent
     \caption@@par
154
     #3\par}
155
156 \def\caption@fmt@default{\caption@fmt@normal}
```

```
157 %
158 % \DeclareCaptionLabelFormat{<name>}{<code with #1 and #2>}
159 % \caption@setlabelformat{<name>}
161 \newcommand*\DeclareCaptionLabelFormat[2]{% bugfixed v3.0a
    \global\expandafter\def\csname caption@lfmt@#1\endcsname##1##2{#2}}
163 \@onlypreamble\DeclareCaptionLabelFormat
164 %
165 \newcommand*\caption@setlabelformat[1]{%
    \@ifundefined{caption@lfmt@#1}%
       {\PackageError{caption}{Undefined caption label format '#1'}{\caption@eh}}%
       {\expandafter\let\expandafter\caption@lfmt\csname caption@lfmt@#1\endcsname}}
168
169 %
170~\% Pre-defined label formats
171 %
172 \DeclareCaptionLabelFormat{empty}{}
173 \DeclareCaptionLabelFormat{simple}{\bothIfFirst{#1}{\nobreakspace}#2}
174 \DeclareCaptionLabelFormat{parens}{\bothIfFirst{#1}{\nobreakspace}(#2)}
175 \def\caption@lfmt@default{\caption@lfmt@simple}
176 %
177 % \DeclareCaptionLabelSeparator{<name>}{<code>}
178 % \caption@setlabelseparator{<name>}
180 \newcommand\DeclareCaptionLabelSeparator[2]{% bugfixed v3.0a
    \global\long\@namedef{caption@lsep@#1}{#2}}
182 \@onlypreamble\DeclareCaptionLabelSeparator
183 %
184 \newcommand*\caption@setlabelseparator[1]{%
    \@ifundefined{caption@lsep@#1}%
185
       {\PackageError{caption}{Undefined caption label separator '#1'}{\caption@eh}}%
       {\expandafter\let\expandafter\caption@lsep\csname caption@lsep@#1\endcsname}}
187
188 %
189 % Pre-defined label separators
190 %
191 \DeclareCaptionLabelSeparator{none}{}
192 \DeclareCaptionLabelSeparator{colon}{: }
193 \DeclareCaptionLabelSeparator{period}{. }
194 \DeclareCaptionLabelSeparator{space}{ }
195 \DeclareCaptionLabelSeparator{quad}{\quad}
196 \DeclareCaptionLabelSeparator{newline}{\newline}
197 \DeclareCaptionLabelSeparator{widespace}{\hspace{1em plus .3em}}% obsolete, do not use!
198 \def\caption@lsep@default{\caption@lsep@colon}
199 %
200 % \DeclareCaptionJustification{<name>}{<code>}
201 % \caption@setjustification{<name>}
203 \newcommand*\DeclareCaptionJustification[2]{% bugfixed v3.0a
    \global\@namedef{caption@hj@#1}{#2}}
205 \@onlypreamble\DeclareCaptionJustification
207 \newcommand*\caption@setjustification[1] {%
208
    \@ifundefined{caption@hj@#1}%
       209
       {\expandafter\let\expandafter\caption@hj\csname caption@hj@#1\endcsname}}
210
```

```
211 %
212 % Pre-defined justifications
213 %
214 \newcommand\caption@centerfirst{%
    \edef\caption@normaladjust{%
       \leftskip\the\leftskip
216
217
       \rightskip\the\rightskip
      \parfillskip\the\parfillskip\relax}%
218
    \leftskip\z@\@plus -1fil%
219
220
     \rightskip\z@\@plus 1fil%
     \parfillskip\z@skip
     \noindent\hskip\z@\@plus 2fil%
     \@setpar{\@@par\@restorepar\caption@normaladjust}}
224 \newcommand\caption@centerlast{%
    \leftskip\z@\@plus 1fil%
225
    \rightskip\z@\@plus -1fil%
226
227
     \parfillskip\z@\@plus 2fil\relax}
228 %
229 \DeclareCaptionJustification{justified}{}
230 \DeclareCaptionJustification{centering}{\centering}
231 \DeclareCaptionJustification{centerfirst}{\caption@centerfirst}
232 \DeclareCaptionJustification{centerlast}{\caption@centerlast}
233 \DeclareCaptionJustification{raggedleft}{\raggedleft}
234 \DeclareCaptionJustification{raggedright}{\raggedright}
235 \def\caption@hj@default{\caption@hj@justified}
236 %
237 % ragged2e package support (improved for v3.0b)
238 % -----
239 \DeclareCaptionJustification{Centering}{%
240 \caption@ragged\Centering\centering}
241 \DeclareCaptionJustification{RaggedLeft}{%
242 \caption@ragged\RaggedLeft\raggedleft}
243 \DeclareCaptionJustification{RaggedRight}{%
244 \caption@ragged\RaggedRight\raggedright}
245 %
246 \newcommand*\caption@ragged[2]{%
247
     \@ifundefined{caption\string#1}{%
       \PackageWarning{caption}{%
         Cannot locate the 'ragged2e' package, therefore\MessageBreak
249
250
         substituting \string#2 for \string#1\MessageBreak}%
       \global\@namedef{caption\string#1}}{}%
251
252
253 %
254 \AtBeginDocument{\IfFileExists{ragged2e.sty}{%
     \RequirePackage{ragged2e}\let\caption@ragged\@firstoftwo}{}}
256 % -----
257 %
258 % \DeclareCaptionFont{<name>}{<code>}
259 % \caption@setfont{<command>}{<keyval-list of names>}
260 %
261 \newcommand\DeclareCaptionFont[2]{% bugfixed v3.0a
262 \define@key{caption@fnt}{#1}[]{\g@addto@macro\caption@tempa{#2}}}
263 \@onlypreamble\DeclareCaptionFont
264 %
```

```
265 \newcommand*\caption@setfont[2]{%
     \let\caption@tempa\@empty
266
267
     \begingroup
       \setkeys{caption@fnt}{#2}%
268
269
     \endgroup
270
     \expandafter\let\csname caption#1\endcsname\caption@tempa}
271 %
272 % Pre-defined fonts
273 %
274 \DeclareCaptionFont{default}{}
275 %
276 \DeclareCaptionFont{scriptsize}{\scriptsize}
277 \DeclareCaptionFont{footnotesize} {\footnotesize}
278 \DeclareCaptionFont{small}{\small}
279 \DeclareCaptionFont{normalsize}{\normalsize}
280 \DeclareCaptionFont{large}{\large}
281 \DeclareCaptionFont{Large}{\Large}
283 \DeclareCaptionFont{up}{\upshape}
284 \DeclareCaptionFont{it}{\itshape}
285 \DeclareCaptionFont{sl}{\slshape}
286 \DeclareCaptionFont{sc}{\scshape}
287 \DeclareCaptionFont{md}{\mdseries}
288 \DeclareCaptionFont{bf}{\bfseries}
289 \DeclareCaptionFont{rm}{\rmfamily}
290 \DeclareCaptionFont{sf}{\sffamily}
291 \DeclareCaptionFont{tt}{\ttfamily}
292 %
293 % Position (default(=bottom)/bottom/top/auto)
294 % ONLY DEFAULT, BOTTOM AND TOP ARE DOCUMENTED YET!
296 \newcommand*\caption@setposition[1]{% improved v3.0a
297
     \caption@ifinlist{#1}{t,top,above}{%
       \let\caption@position\@firstoftwo
298
     }{\caption@ifinlist{#1}{b,bottom,below,default}{%
299
300
       \let\caption@position\@secondoftwo
301
     }{\caption@ifinlist{#1}{a,auto}{%
       \let\caption@position\@undefined
302
303
     }{%
       \PackageError{caption}{Undefined caption position '#1'}{\caption@eh}%
304
305
     }}}}
306 %
307 % \captionsetup[<type>] {<keyval-list of options>}
308 % \caption@settype{<type>}
309 %
310 % If 'type' is set, we simply save or append the option list,
311 % otherwise we 'execute' it with \setkeys
312 % \changes{v3.0a}{17 Jan 04}{Missing percent added}
313 %
314 \def\captionsetup{\@ifnextchar[\caption@setuptype\caption@setup}
315 \def\caption@setuptype[#1]#2{% bugfixed v3.0a
316
     \@ifundefined{caption@typ@#1}%
317
       {\@namedef{caption@typ@#1}{#2}}%
       {\expandafter\l@addto@macro\csname caption@typ@#1\endcsname{,#2}}}
318
```

```
319 \def\caption@setup{\setkeys{caption}}
320 %
321 \def\caption@esetup#1{%
           \edef\caption@tempa{\noexpand\caption@setup{#1}}%
322
           \caption@tempa}
325 % Setting up caption type: Simply execute the saved option list
326 % (For use inside \@caption, \LT@makecaption etc.)
327 %
328 \ensuremath{\mbox{def\caption@settype#1}}\%
           \@ifundefined{caption@typ@#1}{}{%
                \caption@esetup{\csname caption@typ@#1\endcsname}}}%
331 \let\caption@setfloattype\caption@settype% new v3.0a
332 %
333 % \clearcaptionsetup{<type>}
334 %
335 \newcommand*\clearcaptionsetup[1]{\@nameundef{caption@typ@#1}}
337 % \showcaptionsetup[<package>]{<type>}
338 % (Note: The optional argument is not documented!)
339 %
340 \newcommand*\showcaptionsetup[2][]{%
341
           \def\caption@tempa{#1}%
342
           \ifx\caption@tempa\@empty
                \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
349
                \@ifundefined{caption@typ@#2}{%
350
351
                    % Empty -- print nothing.
                }{%
352
                    \@nameuse{caption@typ@#2}%
353
                }%
354
355
                )}}
356 %
357 % Hooks (not documented yet...)
358 %
359 \newcommand\caption@beginhook{}
360 \newcommand\caption@endhook{}
361 \newcommand\AtBeginCaption{\l@addto@macro\caption@beginhook}
362 \mbox{ } \mbox{
364\,\% We declare options using the keyval package...
365 %
366 % \DeclareCaptionOption{<option>}{<code>}
367 % \DeclareCaptionOption*{<option>}{<code>}
368 %
369 \newcommand\DeclareCaptionOption{%
         \@ifstar{\caption@declareoption\AtEndOfPackage}{\caption@declareoption\@gobble}}
371 \newcommand*\caption@declareoption[2]{%
372 #1{\undefine@key{caption}{#2}}\define@key{caption}{#2}}
```

```
373 \@onlypreamble\DeclareCaptionOption
374 \@onlypreamble\caption@declareoption
375 %
376 \% ...and here comes the options
377 %
378 \DeclareCaptionOption{default}[]{%
         \caption@setup{style=default,position=default,aboveskip=10pt,belowskip=0pt}}
380 %
381 \DeclareCaptionOption{style}{\caption@setstyle{#1}}
382 \DeclareCaptionOption{format}{\captionOsetformat{#1}}
383 \DeclareCaptionOption{labelformat}{\caption@setlabelformat{#1}}
384 \DeclareCaptionOption{labelsep}{\caption@setlabelseparator{#1}}
385 \DeclareCaptionOption{labelseparator}{\caption@setlabelseparator{#1}}
386 \DeclareCaptionOption{justification}{\captionOsetjustification{#1}}
387 \DeclareCaptionOption{size}{\caption@setfont{size}{#1}}% changed v3.0a
388 \DeclareCaptionOption{font}{\caption@setfont{font}{#1}}
389 \DeclareCaptionOption{labelfont}{\caption@setfont{labelfont}{#1}}
390 \DeclareCaptionOption{textfont}{\caption@setfont{textfont}{#1}}
391 \DeclareCaptionOption{margin}{\captionOsetmargin{#1}}
392 \DeclareCaptionOption{width}{\caption@setwidth{#1}}
393 \DeclareCaptionOption{indent}[\leftmargini]{\setlength\captionindent{#1}}
394 \DeclareCaptionOption{indention} [\leftmargini] {\setlength\captionindent{#1}}
395 \DeclareCaptionOption{parindent}[\parindent]{\setlength\captionparindent{#1}}% changed v3.0b
396 \DeclareCaptionOption{hangindent}[Opt]{\setlength\captionhangindent{#1}}% changed v3.0b
397 \end{are CaptionOption parskip} \cite{CaptionOption parskip} \cite{CaptionOptionOption parskip} \cite{CaptionOption parskip} \cite{CaptionOptionOptionOptionOption parskip} \cite{CaptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptionOptio
398 %
399 \DeclareCaptionOption{singlelinecheck}[1]{\caption@setbool{slc}{#1}}
400 \DeclareCaptionOption{aboveskip}{\setlength\abovecaptionskip{#1}}
401 \DeclareCaptionOption{belowskip}{\setlength\belowcaptionskip{#1}}
402 \DeclareCaptionOption{position}{\caption@setposition{#1}}
403 \DeclareCaptionOption{listof}{\caption@setbool{lof}{#1}}% new v3.0b
405 \DeclareCaptionOption{debug}{\def\caption@debug{#1}}
406 %
407 % Initialize options
408 %
409 \captionsetup{style=default,position=default,listof=1,debug=0}
411 % \caption@fixposition
412 % \caption@autoposition (new in 3.0b)
413 %
414 \newcommand\caption@fixposition{%
         \ifx\caption@position\@undefined
             \caption@autoposition
417
418 \newcommand\caption@autoposition{% bugfixed v3.0a
        \ifvmode
             \ifodd\caption@debug\relax
420
421
                 \edef\caption@tempa{\the\prevdepth}%
422
                 \PackageInfo{caption}{\protect\prevdepth=\caption@tempa}%
423
424 %
425 %
             \caption@setposition{\ifdim\prevdepth>-\p@ b\else t\fi}%
             \ifdim\prevdepth>-\p@
426
```

```
427
         \let\caption@position\@secondoftwo
       \else
428
         \let\caption@position\@firstoftwo
429
430
       \fi
     \else
431
       \ifodd\caption@debug\relax
432
         \PackageInfo{caption}{no \protect\prevdepth}%
433
       \fi
434
435 %
436 %
       \caption@setposition{b}%
437
       \let\caption@position\@secondoftwo
438
439 %
440 % \caption@iftop{<true-code>}{<false-code>}
441 \% (If \caption@position is not set we assume a "bottom" position.)
442 %
443 \newcommand\caption@iftop{% bugfixed v3.0a
     \ifx\caption@position\@firstoftwo
       \expandafter\@firstoftwo
445
     \else
446
       \expandafter\@secondoftwo
447
     fi
448
449 %
450 % Typeset caption
451 %
452 \newcommand\caption@make[2]{%
     \verb|\caption@@make{\caption@lfmt{#1}{#2}}| \\
453
454 %
455 \newcommand\caption@@make[2]{%
     \caption@beginhook
457 %
     \caption@calcmargin
458
459
     \advance\captionmargin by \captionindent
     \advance\captionwidth by -\captionindent
460
     \hskip\captionmargin
461
462
     \vbox{\hsize=\captionwidth
463 % Bugfix v3.0b
       \ifdim\captionindent=\z@\else
465
         \hskip-\captionindent
466
467 %
468 % Special single-line treatment
469 %
470
       \caption@ifslc{%
         \ifx\caption@sls\@empty\else
471
472
            \caption@beginslc
473
            \sbox\@tempboxa{\caption@@@make{#1}{#2}}%
474
           \ifdim\wd\@tempboxa >\hsize
475
              \caption@endslc
476
            \else
              \caption@endslc
477
              \caption@esetup\caption@sls
478
            \fi
479
         \fi}{}%
480
```

```
481 %
       \captionsize\captionfont\strut
482
483
       \caption@@@make{#1}{#2}}%
484 %
     \caption@endhook
485
486
     \global\caption@starfalse}
487 %
488 % Calculate \captionmargin & \captionwidth
489 %
490 \newcommand\caption@calcmargin{%
     \ifcaption@width
492
       \captionmargin\hsize
       \advance\captionmargin by -\captionwidth
493
       \divide\captionmargin by 2
494
495
       \captionwidth\hsize
496
       \advance\captionwidth by -2\captionmargin
497
498
499 %
     \ifodd\caption@debug\relax
500
       \PackageInfo{caption}{\protect\hsize=\the\hsize,
501
          \protect\margin=\the\captionmargin,
502
503
          \protect\width=\the\captionwidth}%
504
     \fi}
505 %
506\ \% Re-define anything which would disturb the single line check
507\;\text{\%} Bugfix v3.0b: re-definition of \label was missing here
508 \% Improvement v3.0b: Better solution
509 %
510 \newcommand\caption@beginslc{%
511
     \begingroup
     \let\label\@gobble\let\@footnotetext\@gobble
512
     \def\stepcounter##1{\advance\csname c@##1\endcsname\@ne\relax}}
513
514 % - or -
515 % \edef\caption@restore{%
516 %
       \noexpand\setcounter{footnote}{\the\value{footnote}}%
       \noexpand\setcounter{mpfootnote}{\the\value{mpfootnote}}}
518 \newcommand\caption@endslc{%
519 % \caption@restore
     \endgroup}
520
521 %
522 \% Typeset caption paragraph
524 \newcommand\caption@@make[2]{%
526 % |\caption*|? Use no caption label and separator!
527 %
     \ifcaption@star
528
529
       \let\caption@lfmt\@gobbletwo
530
       \let\caption@lsep\relax
     \fi
531
532 %
533 % Empty text? Use no caption label separator!
534 %
```

```
\def\caption@tempa{#2}%
535
536
     \def\caption@tempb{\ignorespaces}%
     \ifx\caption@tempa\caption@tempb
537
       \let\caption@tempa\@empty
538
539
     \fi
     \ifx\caption@tempa\@empty
540
       \let\caption@lsep\relax
541
     \fi
542
543 %
544 % Typeset the caption!
545 %
546
     \def\caption@@par{%
       \parindent\captionparindent\hangindent\captionhangindent}%
547
     \@setpar{\@@par\caption@@par}\caption@@par
548
549 %
550 % (Bugfixed in v3.0b: \allowhyphens added)
     \caption@hj\captionsize\captionfont
     \caption@fmt{{\captionlabelfont#1}}%
552
                 {{\captionlabelfont\caption@lsep}}%
553
554
                 {{\captiontextfont\nobreak\hskip\z@skip#2\par}}}
11.2
        Package
555 %\NeedsTeXFormat{LaTeX2e}[1994/12/01]
556 %\ProvidesPackage{caption}[2004/xx/xx v3.1 Customising captions (AS)]
557 %\RequirePackage{caption3}
558 %
559 % Add option for loading configuration file
560 %
561 \DeclareCaptionOption{config}[caption]{%
562
      \InputIfFileExists{#1.cfg}{\typeout{*** Local configuration file
                                           #1.cfg used ***}}%
563
564
                                 {\PackageWarning{caption}{Configuration
565
                                   file #1.cfg not found}}}
566 %
567 % \changes{v3.0a}{9 Jan 04}{Options 'figureposition' and 'tableposition' added}
568 \DeclareCaptionOption*{figureposition}{\captionsetup[figure]{position=#1}}% new v3.0a
569 \DeclareCaptionOption*{tableposition}{\captionsetup[table]{position=#1}}%
                                                                                   new v3.0a
570 %
571 % Simulation of the old (caption v1.x) options:
572 %
573 \DeclareCaptionOption*{normal}[]{\caption@setformat{normal}}
574 \DeclareCaptionOption*{isu}[]{\caption@setformat{hang}}
575 \DeclareCaptionOption*{hang}[]{\captionOsetformat{hang}}
576 \DeclareCaptionOption*{center}[]{\captionOsetjustification{centering}}
577 \DeclareCaptionOption*{anne}[]{\caption@setjustification{centerlast}}
578 \DeclareCaptionOption*{centerlast}[]{\caption@setjustification{centerlast}}
579 %
580 \DeclareCaptionOption*{nooneline}[]{\caption@setbool{slc}{0}}
582 \DeclareCaptionOption*{scriptsize}[]{\def\captionfont{\scriptsize}}
583 \DeclareCaptionOption*{footnotesize}[]{\def\captionfont{\footnotesize}}
584 \DeclareCaptionOption*{small}[]{\def\captionfont{\small}}
585 \DeclareCaptionOption*{normalsize}[]{\def\captionfont{\normalsize}}
586 \DeclareCaptionOption*{large}[]{\def\captionfont{\large}}
```

```
587 \DeclareCaptionOption*{Large}[]{\def\captionfont{\Large}}
589 \DeclareCaptionOption*{up}[]{\l@addto@macro\captionlabelfont\upshape}
590 \DeclareCaptionOption*{it}[]{\l@addto@macro\captionlabelfont\itshape}
591 \DeclareCaptionOption*{s1}[]{\l@addto@macro\captionlabelfont\s1shape}
592 \end{center} $$ 192 \end{center} $$ 10add to @macro \end{center} $$ 192 \end{cen
593 \DeclareCaptionOption*{md}[]{\l@addto@macro\captionlabelfont\mdseries}
594 \DeclareCaptionOption*{bf}[]{\l@addto@macro\captionlabelfont\bfseries}
595 \DeclareCaptionOption*{rm}[]{\l@addto@macro\captionlabelfont\rmfamily}
596 \DeclareCaptionOption*{sf}[]{\l@addto@macro\captionlabelfont\sffamily}
597 \DeclareCaptionOption*{tt}[]{\l@addto@macro\captionlabelfont\ttfamily}
598 %
599 \caption@setbool{ruled}{0}
600 \DeclareCaptionOption*{ruled}[]{\caption@setbool{ruled}{1}}
602 % Options for foreign package support
603 %
604 \newcommand*\DeclareCaptionPackage[1]{%
          \caption@setbool{pkt@#1}{1}%
          \DeclareCaptionOption*{#1}{\caption@setbool{pkt@#1}{##1}}}
606
607 %
608 % Compatible packages
609 % (new in v3.0b: The listings package)
610 %
611 \DeclareCaptionPackage{caption}
612 \DeclareCaptionPackage{float}
613 \DeclareCaptionPackage{listings}
614 \DeclareCaptionPackage{longtable}
615 \DeclareCaptionPackage{rotating}
616 \DeclareCaptionPackage{sidecap}
617 \DeclareCaptionPackage{supertabular}
618 %
619 \let\DeclareCaptionPackage\@undefined
620 %
621 % We process our options using the keyval package
622 %
623 \def\ProcessOptionsWithKV#1{% bugfixed v3.0a
          \let\@tempc\relax
625
          \let\caption@tempa\@empty
          \@for\CurrentOption:=\@classoptionslist\do{%
626
              \@ifundefined{KV@#1@\CurrentOption}%
627
              {}%
628
629
              {%
                   \edef\caption@tempa{\caption@tempa,\CurrentOption,}%
630
631
                   \@expandtwoargs\@removeelement\CurrentOption
632
                       \@unusedoptionlist\@unusedoptionlist
633
              }%
          }%
634
635
          \edef\caption@tempa{%
636
              \noexpand\setkeys{#1}{%
                   \caption@tempa\@ptionlist{\@currname.\@currext}%
637
              }%
638
         }%
639
          \caption@tempa
640
```

```
641 % Bugfix, see <400D360C.9678329F@gmx.net> for details
642 \let\CurrentOption\@empty
                  \AtEndOfPackage{\let\@unprocessedoptions\relax}}
644 \ProcessOptionsWithKV{caption}
645 \ \text{let\ProcessOptionsWithKV\Qundefined}
646 %
647 % \captionof(*)
648 %
649 \end{caption} \{\caption \end{caption} \end{caption} \label{caption} $$ (\caption \end{caption} \end{caption} \end{caption} \end{caption} \end{caption} \end{caption} $$ (\caption \end{caption} \end{caption} \end{caption} $$ (\caption \end{caption} \en
650 \newcommand*\caption@of[2]{\def\@captype{#2}#1}
652 % ContinuedFloat
653 %
654 \providecommand\ContinuedFloat{%
                  \ifx\@captype\@undefined
                          \@latex@error{\noexpand\ContinuedFloat outside float}\@ehd
656
657
                           \addtocounter{\@captype}{\m@ne}%
                  \fi}%
659
660 %
661 % \caption@floatname{<type>}
662 % \caption@thefloat{<type>}
664 \newcommand*\caption@floatname[1]{\@nameuse{#1name}}
665 \mbox{ } \mbox{
666 %
667 % \caption@letfloattype{<type>}
668 % (new in caption 3.0b)
669 %
670 \def\caption@letfloattype#1{%
                  \def\caption@setfloattype##1{%
                           \caption@settype{##1}\caption@settype{#1}}}
672
673 %
674 % \caption@begin{<type>} (changed in v3.0b)
675 % \caption@beginex{<type>}{<list entry>}
676 % \caption@end
677 %
678 \newcommand*\caption@begin[1] {%
679
                  \begingroup
                   \caption@setfloattype{#1}%
680
                   \ensuremath{\mbox{Qnamedef{fnum@#1}}{\%}}
681
                          \caption@lfmt{\caption@floatname{#1}}{\caption@thefloat{#1}}}%
682
683 %
                   \caption@fixposition
684
                   \global\let\caption@fixedposition\caption@position
685
686 %
687
                   \caption@@begin{#1}}
688 \newcommand*\caption@beginex[1]{%
                  \caption@begin{#1}%
                  \caption@preparelof}
691 \newcommand*\caption@end{%
                  \caption@@end
                  \endgroup
693
694 %
```

```
\let\caption@position\caption@fixedposition}
695
696 %
697 % \caption@@begin{<type>}
698 % \caption@@end
699 %
700 \let\caption@@begin\@gobble% new v3.0a
701 \let\caption@@end\@empty%
                                  new v3.0a
702 %
703 % \caption@preparelof{<list entry>}
704 %
705 \newcommand*\caption@preparelof[1]{% changed v3.0b
     \caption@ifbool{lof}%
       {\def\caption@tempa{#1}}%
707
       {\let\caption@tempa\@empty}%
708
     \ifx\caption@tempa\@empty
709
       \def\addcontentsline##1##2##3{}%
710
711
712 %
713 % CAPTION SUPPORT
714 % ========
715 %
716 \caption@ifpkt@caption{
717 %
718 % \@makecaption{<label>}{<text>}
719 % Original code:
720 % \long\def\@makecaption#1#2{%
721 %
       \vskip\abovecaptionskip
       \sbox\@tempboxa{#1: #2}%
722 %
      \ifdim \wd\@tempboxa >\hsize
723 %
724 %
         #1: #2\par
725 %
      \else
726 %
         \global \@minipagefalse
727 %
         \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
728 %
729 %
       \vskip\belowcaptionskip}
730 %
     \renewcommand\@makecaption[2]{%
731
       \caption@iftop{\vskip\belowcaptionskip}{\vskip\abovecaptionskip}%
       \ifnum\caption@debug>1 %
733
         \llap{\$\caption@iftop\downarrow\uparrow\}%
734
       \fi
735
       \caption@@make{#1}{#2}%
736
       \caption@iftop{\vskip\abovecaptionskip}{\vskip\belowcaptionskip}}
737
738 %
     \AtBeginDocument{%
739
740
       \@ifundefined{cc@caption}{%
741 %
742 %
         Define \caption* ...
743 %
         (07/18/03: \global added, so this works with sidecap)
744 %
745
         \def\caption@caption#1{%
           \@ifstar{\global\caption@startrue\@ifnextchar[{#1}{#1[]}}{#1}}%
746
747 %
         \let\caption@old\caption
748
```

```
\def\caption{\caption@caption\caption@old}%
749
750 %
         Define \caption[]{...} ...
751 %
752 %
         \let\caption@@old\@caption
753
         \long\def\@caption#1[#2]#3{%
754
           \caption@beginex{#1}{#2}%
755
             \caption@@old{#1}[{#2}]{#3}%
756
           \caption@end}%
757
758
       }{%
759 %
         Minimum captcont package support (bugfixed v3.0c)
760 %
         \PackageInfo{caption}{captcont package v2.0 detected}%
761
         \def\caption@caption#1{#1}% added v3.0c
762
       }%
763
764
    }}{}
765 \AtEndOfPackage{\let\caption@ifpkt@caption\@undefined}% bugfixed v3.0a
767 % GENERIC PACKAGE SUPPORT
768 % ==========
769 %
770 \newcommand*\caption@ifpackage[2]{%
771
    \let\next\@gobble
772 %
     \caption@ifpkt@caption{%
773
       \caption@ifbool{pkt@#1}{%
774
         \@ifundefined{#2}%
775
           {\let\next\AtBeginDocument}%
776
           {\let\next\@firstofone}}{}%
777
778 %
       \ifodd\caption@debug\relax
779
         \edef\caption@tempa{%
780
           \caption@ifbool{pkt@#1}{%
781
             \@ifundefined{#2}{AtBeginDocument}{firstofone}%
782
           }{gobble}}%
783
784
         \PackageInfo{caption}{#1 = \caption@ifbool{pkt@#1}{1}{0} %
785
              (\@ifundefined{#2}{not }{}loaded -> \caption@tempa)}%
786
       \fi
787
    }{}%
788 %
     \@nameundef{caption@ifpkt@#1}% bugfixed v3.0a
789
790
791 \AtEndOfPackage{\let\caption@ifpackage\@undefined}
793 % FLOAT PACKAGE SUPPORT
794 % =========
795 %
796 \def\caption@setfloatposition{%
797
     \caption@setposition{\@fs@iftopcapt t\else b\fi}}
798 %
799 \caption@ifpackage{float}{float@caption}{%
800
     \ifx\float@caption\relax
     \else
801
       \PackageInfo{caption}{float package v1.2 (or newer) detected}%
802
```

```
803 %
804 % Note that this version of \captionof works only with float 1.3 (or newer)
       \let\caption@of@float\@gobble
       \renewcommand*\caption@of[2]{%
807
808
         \@ifundefined{fst@#2}{}{%
           \let\caption@of@float\@firstofone
809
           \@nameuse{fst@#2}\@float@setevery{#2}}%
810
811 %
812
         \def\@captype{#2}#1}%
813 %
814
       \renewcommand*\caption@floatname[1]{%
         \Onameuse{\Oifundefined{fname@#1}{#1name}{fname@#1}}}%
815
816 %
       \let\caption@@float\float@caption
817
       \long\def\float@caption#1[#2]#3{%
818
         \caption@beginex{#1}{#2}%
819
           \let\@fs@capt\caption@@make
820
821
           \caption@@float{#1}[{#2}]{#3}%
822 %
           \caption@of@float{%
823
             \def\caption@@make##1##2{\unvbox\@floatcapt}%
824
825
             \@makecaption{}{}}%
826
         \caption@end}%
827 %
       \renewcommand*\caption@setfloattype[1]{% improved v3.0a
828
         \caption@fixfloat@c{#1}%
829
         \expandafter\ifx\csname @float@c@#1\endcsname\float@caption
830
           This float is defined with \newfloat or \restylefloat, not with \restylefloat*
831 %
           \expandafter\let\expandafter\caption@fst\csname fst@#1\endcsname
832
           \edef\caption@fst{\noexpand\string\expandafter\noexpand\caption@fst}%
833
834
           \edef\caption@fst{\noexpand\@gobblefour\caption@fst}%
           \edef\caption@fst{\caption@fst}%
835 %
           |\caption@fst| now contains the float style (e.g. ''ruled'')
836 %
           \@ifundefined{caption@sty@\caption@fst}{}{\caption@setstyle\caption@fst}%
837
838
           \caption@setfloatposition% changed v3.0b
839
         \fi
         \caption@settype{#1}}%
840
841 %
842\ \% If you think this works fine, you are in a big error!
843~\% The problem is that \newfloat and \restylefloat (of float 1.3) saves the
844 % *ACTUAL* definition of \@caption and \float@caption with \let, so our own
845\,\% \Qcaption (and of course our own \floatQcaption) will never been called if
846 % the \newfloat or \restylefloat takes place in the preamble of the document!
847 %
848 \% So we have to correct this for ourself:
849\,\% We patch \caption again, this time we determine if the user has used
850 % \restylefloat or \restylefloat*. This is quite easy, if \@float@c@<captype>
851 % is the same as the original or our own definition of \float@caption, the
852 % user has used \restylefloat (and \float@caption should be used), otherwise
853\,\% we assume he has used \restylefloat* (and \@caption should be used).
854 % (This test will only fail if some other package re-defines \float@caption,
855 % too.)
856 %
```

```
\let\caption@float\caption
857
       \def\caption{%
858
         \ifx\@captype\@undefined
859
           \@latex@error{\noexpand\caption outside float}\@ehd
860
           \expandafter\@gobble
861
862
           Let's bring \@float@c@<captype> up-to-date!
863 %
           \caption@fixfloat@c\@captype
864
865
866
         \caption@float}%
867 %
868
       \def\caption@fixfloat@c#1{%
         \expandafter\let\expandafter\caption@tempa\csname @float@c@#1\endcsname
869
         \ifx\caption@tempa\relax
870
         \else\ifx\caption@tempa\float@caption
871
         \else\ifx\caption@tempa\@caption
872
         \else\ifx\caption@tempa\caption@@float
873
           \ifodd\caption@debug\relax
874
             \PackageInfo{caption}{\protect\@float@c@#1\space := \protect\float@caption}%
875
876
           \expandafter\let\csname @float@c@#1\endcsname\float@caption
877
878
         \else
879
           \ifodd\caption@debug\relax
880
             \PackageInfo{caption}{\protect\@float@c@#1\space := \protect\@caption}%
881
           \expandafter\let\csname @float@c@#1\endcsname\@caption
882
         \fi\fi\fi\fi\fi}%
883
884 %
    \fi}
885
886 %
887 \caption@ifbool{ruled}{}{%
     \DeclareCaptionStyle{ruled}{labelfont=bf,labelsep=space}}
889 \let\caption@ifruled\@undefined
890 %
891 % LISTINGS PACKAGE SUPPORT (new in 3.0b)
892 % =========
893 %
894 \caption@ifpackage{listings}{lst@MakeCaption}{%
895
     \ifx\lst@MakeCaption\relax
896
       \PackageInfo{caption}{listings package v1.2 (or newer) detected}%
897
898 %
       \let\caption@lst@MakeCaption\lst@MakeCaption
899
       \def\lst@MakeCaption#1{%
900
         \let\caption@setfloattype\caption@settype
901
902
         \def\caption@autoposition{\caption@setposition{#1}}%
903
         \caption@begin{lstlisting}%
           \caption@lst@MakeCaption{#1}%
904
905
         \caption@end}%
906 %
907
    \fi}
908 %
909 % LONGTABLE PACKAGE SUPPORT
910 % -----
```

```
911 %
912 \caption@ifpackage{longtable}{LT@makecaption}{%
    \ifx\LT@makecaption\relax
914
915
       \PackageInfo{caption}{longtable package v3.15 (or newer) detected}%
916 %
917 % Original code:
918 % \def\LT@makecaption#1#2#3{%
919 %
       \LT@mcol\LT@cols c{\hbox to\z@{\hss\parbox[t]\LTcapwidth{%
920 %
         % Based on article class "\@makecaption", "#1" is "\@gobble" in star
921 %
         % form, and "\@firstofone" otherwise.
922 %
         \sbox\@tempboxa{#1{#2: }#3}%
923 %
         \ifdim\wd\@tempboxa>\hsize
924 %
           #1{#2: }#3%
925 %
        \else
926 %
           \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
927 %
928 %
         \endgraf\vskip\baselineskip}%
       \hss}}
929 %
930 %
931
       \def\LT@makecaption#1#2#3{%
          932
933 %
934
            \caption@letfloattype{longtable}%
            \caption@begin{table}%
935
936
              \ifdim\LTcapwidth=4in \else
                \caption@setwidth\LTcapwidth
937
              \fi
938
              \caption@startrue#1\caption@starfalse
939
940
              \caption@@make{#2}{#3}%
              \endgraf\vskip\baselineskip
941
              \endgraf\vskip\abovecaptionskip% always 'position=top'
942 %
            \caption@end}%
943
944 %
          \hss}}%
945
946 %
947
    \fi}
948 %
949 % ROTATING PACKAGE SUPPORT
950 % ==========
951 %
952 \caption@ifpackage{rotating}{@rotcaption}{%
    \ifx\@rotcaption\relax
954
       \PackageInfo{caption}{rotating package v2.0 (or newer) detected}%
955
956 %
957
       \let\caption@rot\rotcaption
       \def\rotcaption{\caption@caption\caption@rot}%
958
959 %
960
       \let\caption@@rot\@rotcaption
       \long\def\@rotcaption#1[#2]#3{%
961
962
         \caption@beginex{#1}{#2}%
           \caption@@rot{#1}[{#2}]{#3}%
963
         \caption@end}%
964
```

```
965 %
966 % Original code:
967 % \long\def\@makerotcaption#1#2{%
        \setbox\@tempboxa\hbox{#1: #2}%
       \ifdim \wd\@tempboxa > .8\vsize
969 %
970 %
          \rotatebox{90}{%
971 %
         \begin{minipage}{.8\textheight}#1: #2\end{minipage}%
972 %
         }\par
973 %
       \else%
974 %
         \rotatebox{90}{\box\@tempboxa}%
975 %
976 %
        \hspace{12pt}%
977 % }
978 %
       \long\def\@makerotcaption#1#2{%
979
         \rotatebox{90}{%
980
           \begin{minipage}{.8\textheight}%
             \caption@@make{#1}{#2}%
982
983
            \end{minipage}%
         }\par
984
          \hspace{12pt}}%
985
986 %
987
     \fi}
988 %
989 % SIDECAP PACKAGE SUPPORT
990 % ========
991 %
992 \caption@ifpackage{sidecap}{endSC@FLOAT}{%
     \ifx\endSC@FLOAT\relax
993
994
     \else
        \PackageInfo{caption}{sidecap package v1.4d (or newer) detected}%
995
996 %
997 \% First of all, we let sidecap use an actual definition of \caption:
998 \% (This is only required for version 1.5d of the sidecap package.)
999 %
1000
       \let\SC@caption=\caption
1001 %
1002 \% Make \caption* and local settings (\captionsetup) work
1003 %
1004
        \let\caption@SC@zfloat\SC@zfloat
        \def\SC@zfloat#1#2#3[#4]{%
1005
          \caption@SC@zfloat{#1}{#2}{#3}[#4]%
1006
1007 %
          \global\let\SC@CAPsetup\@empty
1008
1009
          \renewcommand\captionsetup[1]{\g@addto@macro\SC@CAPsetup{,##1}}%
1010 %
1011
          \let\caption@old\caption
          1012 %
1013
          \def\caption{\caption@caption\caption@old}%
1014
       }%
1015 %
1016\ \% Before typesetting the caption, we set the captionmargin to zero
1017\,\% because the extra margin is only disturbing here.
1018\,\% (We don't need to take care about the caption position because
```

```
1019~\% the sidecap package set both \abovecaptionskip and \belowcaptionskip
1020 % to a skip of zero anyway.)
1021 % Furthermore \SC@justify will override the caption justification, if set.
1022 %
1023 % Very old version (1.4): \SC@justify is not defined
1024 % Older versions (1.5): \SC@justify is \relax when not set
1025 \% Newer versions (1.6): \SC@justify is \@empty when not set
1026 %
        \let\caption@endSC@FLOAT\endSC@FLOAT
1027
1028
        \def\endSC@FLOAT{%
1029
          \caption@setmargin\z@
1030 %
          \@ifundefined{SC@justify}{}{%
1031
            \ifx\SC@justify\@empty\else
1032
              \let\caption@hj\SC@justify
1033
              \let\SC@justify\@empty
1034
            fi}%
1035
1036 %
          \caption@esetup\SC@CAPsetup
1037
          \caption@letfloattype{SC\@captype}%
1038
1039 %
          \caption@endSC@FLOAT}%
1040
1041 %
1042
     \fi}
1043 %
1044 % SUPERTABULAR PACKAGE SUPPORT
1045 % ==========
1046 %
1047 \def\caption@setSTposition{%
      \caption@setposition{\if@topcaption t\else b\fi}}
1050 \caption@ifpackage{supertabular}{ST@caption}{%
      \ifx\ST@caption\relax
1051
      \else
1052
        \PackageInfo{caption}{supertabular package detected}%
1053
1054 %
1055 % Original code:
1056 % \long\def\ST@caption#1[#2]#3{\par%
1057 %
        \addcontentsline{\csname ext@#1\endcsname}{#1}%
1058 %
                         {\protect\numberline{%
1059 %
                             \csname the#1\endcsname}{\ignorespaces #2}}
1060 %
        \begingroup
1061 %
          \@parboxrestore
1062 %
          \normalsize
          \if@topcaption \vskip -10\p@ \fi
1063 %
1064 %
          \@makecaption{\csname fnum@#1\endcsname}{\ignorespaces #3}\par
1065 %
          \if@topcaption \vskip 10\p@ \fi
1066 %
        \endgroup}
1067 %
1068
      \let\caption@ST\ST@caption
      \long\def\ST@caption#1[#2]#3{\par% bugfixed v3.0a
1069
1070
        \caption@letfloattype{supertabular}%
        \let\caption@fixposition\caption@setSTposition
1071
        \caption@beginex{#1}{#2}%
1072
```

```
\verb|\addcontentsline{\csname ext@#1\endcsname}{#1}|
1073
                       {\protect\numberline{%
1074
                           \csname the#1\endcsname}{\ignorespaces #2}}%
1075
         \@parboxrestore
1076
1077
         \normalsize
1078
         1079
       \caption@end}%
1080 %
1081
     \fi}
1082 %
1083 % KOMA-SCRIPT CLASSES SUPPORT (new in 3.0a)
1084 % ==
1085 %
1086 % \changes{v3.0a}{18 Jan 04}{Minimum adaption to KOMA-Script}
1087 \AtBeginDocument{\let\scr@caption\caption}
```

References

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