IATeX2 $_{\varepsilon}$ SVMono Document Class Version 5.x Reference Guide for Monographs

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1 Introduction

This reference guide gives a detailed description of the LaTeX2 $_{\varepsilon}$ SVMono document class Version 5.x and its special features designed to facilitate the preparation of scientific books for Springer Nature. It always comes as part of the SVMono tool package and should not be used on its own.

The components of the SVMono tool package are:

 The Springer LATEX class SVMono.cls, MakeIndex styles svind.ist, svindd.ist, BibTeX styles spmpsci.bst, spphys.bst, spbasic.bst as well as the templates with preset class options, packages and coding examples;

Tip: Copy all these files to your working directory, run \LaTeX 2 $_{\varepsilon}$, BibTeX and MakeIndex—as is applicable—and and produce your own example *.dvi file; rename the template files as you see fit and use them for your own input.

• Author Instructions with style and coding instructions.

Tip: Follow these instructions to set up your files, to type in your text and to obtain a consistent formal style in line with the Springer Nature layout specifications; use these pages as checklists before you submit your manuscript data.

 The Reference Guide describing SVMono features with regards to their functionality.

Tip: Use it as a reference if you need to alter or enhance the default settings of the SVMoNo document class and/or the templates.

The documentation in the Springer SVMoNo tool package is not intended to be a general introduction to $\LaTeX_{E}X2_{\varepsilon}$ or $\TeX_{E}X$. For this we refer you to [1–3].

Should we refer in this tool package to standard tools or packages that are not installed on your system, please consult the *Comprehensive TEX Archive Network* (CTAN) at [4–6].

SVMono was derived from the LATEX2 ε book.cls and article.cls.

The main differences from the standard document classes article.cls and book.cls are the presence of

- multiple class options,
- a number of newly built-in environments for individual text structures like theorems, exercises, lemmas, proofs, etc.,
- · enhanced environments for the layout of figures and captions, and
- new declarations, commands and useful enhancements of standard environments to facilitate your math and text input and to ensure their output is in line with the Springer Nature layout standards.

Nevertheless, text, formulae, figures, and tables are typed using the standard LATEX2 ε commands. The standard sectioning commands are also used.

Always give a \label where possible and use \ref for cross-referencing. Such cross-references may then be converted to hyperlinks in any electronic version of your book.

The \cite and \bibitem mechanism for bibliographic references is also obligatory.

2 SVMono Class Features

2.1 Initializing the SVMono Class

To use the document class, enter

\documentclass [\langle options \rangle] \{ \text{symono} \}

at the beginning of your input.

2.2 SVMono Class Options

Choose from the following list of SVMono class options if you need to alter the default layout settings of the SVMono document class. Please note that the optional features should only be chosen if instructed so by the editor of your book.

Page Style

default twoside, single-spaced output, contributions starting always on a

recto page

referee produces double-spaced output for proofreading

footinfo generates a footline with name, date, ... at the bottom of each

page

norunningheads suppresses any headers and footers

N.B. If you want to use both options, you must type referee before footinfo.

Body Font Size

default 10 pt 11pt, 12pt are ignored

Language for Fixed LATEX Texts

In the SVMono class we have changed a few standard LaTeX texts (e.g. Figure to Fig. in figure captions) and assigned names to newly defined theorem-like environments so that they conform with Springer Nature style requirements.

default English

deutsch translates fixed LATEX texts into their German equivalent

francais same as above for French

Text Style

default plain text

graybox automatically activates the packages color and framed

and places a box with 15 percent gray shade in the background

of the text when you use the SVMono environment

\begin{svgraybox}...\end{svgraybox}, see Sects. 2.3, 2.4.

Equations Style

default centered layout, vectors boldface (math style) vecphys produces boldface italic vectors (physics style)

when \vec-command is used

vecarrow depicts vectors with an arrow above when \vec-command

is used

Numbering and Layout of Headings

default all section headings down to subsubsection level are numbered,

second and subsequent lines in a multiline numbered heading are indented; Paragraph and Subparagraph headings are displayed but not numbered; figures, tables and equations are numbered chapterwise, individual theorem-like environments are counted consecutively

throughout the book.

nosecnum suppresses any section numbering; figures, tables and equations are

counted chapterwise displaying the chapter counter, if applicable.

nochapnum suppresses the chapter numbering only, subsequent section headings

as well as figures, tables and equations are numbered chapterwise but

without chapter counter.

nonum suppresses any numbering of any headings; tables, figures, equations

are counted consecutively throughout the book.

\chapter* must not be used since all subsequent numbering will go bananas . . .

Warning!

Numbering of Figures, Tables and Equations

default chapter-wise numbering

numart numbers figures, tables, equations consecutively (not chapterwise)

throughout the whole text, as in the standard article document class

Numbering and Counting of Built-in Theorem-Like Environments

default each built-in theorem-like environment gets its own counter

without any chapter or section prefix and is counted

consecutively throughout the book

envcountchap Each built-in environment gets its own counter and is numbered

chapterwise. To be selected as default setting for a book with

numbered chapters.

envcountsect each built-in environment gets its own counter and is numbered

sectionwise

envcountsame all built-in environments follow a single counter without

any chapter or section prefix, and are counted consecutively

throughout the book

envcountresetchap each built-in environment gets its own counter without any

chapter or section prefix but with the counter reset for each

chapter

envcountresetsect

each built-in environment gets its own counter without any chapter or section prefix but with the counter *reset for each section*

N.B.1 When the option *envcountsame* is combined with the options *envcount-resetchap* or *envcountresetsect* all predefined environments get the same counter; but the counter is reset for each chapter or section.

N.B.2 When the option *envcountsame* is combined with the options *envcountchap* or *envcountsect* all predefined environments get a common counter with a chapter or section prefix; but the counter is reset for each chapter or section.

N.B.3 We have designed a new easy-to-use mechanism to define your own environments.

N.B.4 Be careful not to use layout options that contradict the parameter of the selected environment option and vice versa.

Use the Springer class option

nospthms only if you want to suppress all defined theorem-like environments and use the theorem environments of original LATEX package or other theorem packages instead. (Please check this with your editor.)

References

default the list of references is set as an unnumbered chapter starting on a new recto page, with automatically correct running heads and an entry in the table of contents. The list itself is set in small print and numbered with ordinal numbers.

sectrefs sets the reference list as an unnumbered section, e.g. at the end of a chapter

natbib sorts reference entries in the author-year system (make sure that you have the natbib package by Patrick W. Daly installed. Otherwise it can be found at the *Comprehensive TeX Archive Network* (CTAN...tex-archive/macros/latex/contrib/supported/natbib/), see [4–6]

Use the Springer class option

oribibl only if you want to set reference numbers in square brackets without automatic TOC entry etc., as is the case in the original LATEX bibliography environment. But please note that most page layout features are nevertheless adjusted to Springer Nature requirements. (Please check usage of this option with your editor.)

Warning!

2.3 Required and Recommended Packages

SVMono document class has been tested with a number of Standard LATEX tools. Below we list and comment on a selection of recommended packages for preparing fully formatted book manuscripts for Springer Nature. If not installed on your system, the source of all standard LATEX tools and packages is the *Comprehensive TeX Archive Network* (CTAN) at [4–6].

Font Selection

default Times font family as default text body font together with Helvetica clone as sans serif and Courier as typewriter

Heivenca cione as sans serii and Courier as typewrite

font.

newtxtext.sty and
newtxmath.sty

Supports roman text font provided by a Times clone, sans serif based on a Helvetica clone, typewriter faces, plus

math symbol fonts whose math italic letters are from a

Times Italic clone

If the packages 'newtxtext.sty and newtxmath.sty' are not already installed with your LATEX they can be found at https://ctan.org/tex.archive/ fonts/newtx at the *Comprehensive TeX Archive Network* (CTAN), see [4–6].

If Times Roman is not available on your system you may revert to CM fonts. However, the SVMono layout requires font sizes which are not part of the default set of the computer modern fonts.

type1cm.sty The type1cm package enhances this default by enabling scalable versions of the (Type 1) CM fonts. If not already installed with your LATEX it can be found at ../tex-archive/macros/latex/contrib/type1cm/ at the Comprehensive TEX Archive Network (CTAN), see [4–6].

Body Text

When you select the SVMono class option [graybox] the packages framed and color are required, see Sect. 2.2

framed.sty makes it possible that framed or shaded regions can break across

color.sty is part of the graphics bundle and makes it possible to selct the color and define the percentage for the background of the box.

Equations

A useful package for subnumbering each line of an equation array can be found at ../tex-archive/macros/latex/contrib/supported/subeqnarray/ at the *Comprehensive TFX Archive Network*(CTAN), see [4–6].

subeqnarray.sty defines the subeqnarray and subeqnarray* environments, which behave like the equivalent eqnarray and eqnarray* environments, except that the individual lines are numbered as 1a, 1b, 1c, etc.

Footnotes

footmisc.sty used with style option [bottom] places all footnotes at the bottom of the page

Figures

graphicx.sty tool for including graphics files (preferrably eps files)

References

Reference lists are numbered with the references being cited in the text by their reference number

sorts reference entries in the author–year system (among other features). N.B. This style must be installed when the class option natbib is used, see Sect. 2.2

cite.sty generates compressed, sorted lists of numerical citations: e.g. [8,11–16]; preferred style for books published in a print version only

Index

makeidx.sty provides and interprets the command \printindex which "prints" the externally generated index file *.ind.

multicol.sty balances out multiple columns on the last page of your subject index, glossary or the like

N.B. Use the MakeIndex program together with one of the following styles

svind.ist for English texts svindd.ist for German texts

to generate a subject index automatically in accordance with Springer Nature layout requirements. For a detailed documentation of the program and its usage we refer you to [1].

2.4 SVMono Commands and Environments in Text Mode

Use the environment syntax

```
\begin{dedication} \detation \end{dedication} \end{dedication}
```

to typeset a dedication or quotation at the very beginning of the in preferred Springer layout.

Use the new commands

```
\foreword
\preface
```

to typeset a Foreword or Preface with automatically generated runnings heads.

Use the new commands

```
\ensuremath{\mbox{\c heading}}\ 
\Extrachap{\ensuremath{\mbox{\c heading}}}
```

to typeset — in the front or back matter of the book—an extra unnumbered chapter with your preferred heading and automatically generated runnings heads.

\Extrachap furthermore generates an automated TOC entry.

Use the new command

```
\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\pro
```

to typeset a text on the back side of a part title page.

Use the new command

```
\chapsubtitle[\langle subtitle \rangle]
```

to typeset a possible subtitle to your chapter title. Beware that this subtitle is not transerred automatically to the table of contents.

The command must be placed *before* the \chapter command.

Alternatively use the \chapter-command to typeset your subtitle together with the chapter title and separate the two titles by a period or an en-dash.

Alternative!

The command must be placed *before* the \chapter command.

Use the new command

$\chapauthor[\langle name \rangle]$

to typeset the author name(s) beneath your chapter title. Beware that the author name(s) are not transferred automatically to the table of contents.

The command must be placed *before* the \chapter command.

Alternatively, if the book has rather the character of a contributed volume as opposed to a monograph you may want to use the SVMono package with features that better suit the specific requirements.

Use the new commands

```
\chaptermark{}
\sectionmark{}
```

Alternative!

to alter the text of the running heads.

Use the new command

```
\mbox{\mbox{motto}}\{\langle \textit{text} \rangle\}
```

to include *special text*, e.g. mottos, slogans, between the chapter heading and the actual content of the chapter in the preferred Springer layout.

The argument $\{\langle text \rangle\}$ contains the text of your inclusion. It may not contain any empty lines. To introduce vertical spaces use [Newton] [height].

If needed, the you may indicate an alternative widths in the optional argument.

N.B. The command must be placed *before* the relevant heading-command.

Use the new commands

```
\abstract{\langle text\rangle}
\abstract*{\langle text\rangle}
```

to typeset an abstract at the beginning of a chapter.

The text of \abstract* will not be depicted in the printed version of the book, but will be used for compiling html abstracts for the online publication of the individual chapters www.SpringerLink.com.

Warning!!! Please do not use the standard LATEX environment

\begin{abstract}...\end{abstract} – it will be ignored when used with the SVMono document class!

Use the new commands

```
\runinhead[\langle title \rangle]
\subruninhead[\langle title \rangle]
```

when you want to use unnumbered run-in headings to structure your text.

Use the new environment command

```
\begin{svgraybox}
\langle text \\ \end{svgraybox}
```

to typeset complete paragraphs within a box showing a 15 percent gray shade.

N.B. Make sure to select the SVMono class option [graybox] in order to have all the required style packages available, see Sects. 2.2, 2.3.

Warning!

Use the new environment command

```
\begin{petit} \\ \langle text \rangle \\ \end{petit}
```

to typeset complete paragraphs in small print.

Use the enhanced environment command

```
\begin{description}[\langle largelabel\rangle] \\ \label{logical} \\ \\ \label{logical} \\ \\ \label{logical} \\ \\ \label{logical} \\ \\ \label{logical} \\ \
```

for your individual itemized lists.

The new optional parameter $[\langle largelabel \rangle]$ lets you specify the largest item label to two levels to appear within the list. The texts of all items are indented by the width of $\langle largelabel \rangle$ and the item labels are typeset flush left within this space. Note, the optional parameter will work only two levels deep.

Use the commands

```
\setitemindent{\largelabel\rangle}
\setitemitemindent{\largelabel\rangle}
```

if you need to customize the indention of your "itemized" or "enumerated" environments.

2.5 SVMono Commands in Math Mode

Use the new or enhanced symbol commands provided by the SVMono document class:

\D	upright d for differential d
\I	upright i for imaginary unit
\E	upright e for exponential function
\tens	depicts tensors as sans serif upright
\vec	depicts vectors as boldface characters instead of the arrow accent

N.B. By default the SVMono document class depicts Greek letters as italics because they are mostly used to symbolize variables. However, when used as operators, abbreviations, physical units, etc. they should be set upright.

All *upright* upper-case Greek letters have been defined in the SVMono document class and are taken from the T_FX alphabet.

Use the command prefix

\var...

with the upper-case name of the Greek letter to set it upright, e.g. \varDelta.

Many *upright* lower-case Greek letters have been defined in the SVMono document class and are taken from the PostScript Symbol font.

Use the command prefix



with the lower-case name of the Greek letter to set it upright, e.g. \umu.

If you need to define further commands use the syntax below as an example:

\newcommand{\ualpha}{\allmodesymb{\greeksym}{a}}

2.6 SVMono Theorem-Like Environments

For individual text structures such as theorems, definitions, and examples, the SVMono document class provides a number of *pre-defined* environments which conform with the specific Springer Nature layout requirements.

Use the environment command

```
\begin{$\langle name\ of\ environment\rangle$} [\langle optional\ material\rangle] \\ \langle text\ for\ that\ environment\rangle \\ \\ \end{$\langle name\ of\ environment}\rangle$}
```

for the newly defined environments.

Unnumbered environments will be produced by

claim and proof.

Numbered environments will be produced by

case, conjecture, corollary, definition, example, exercise, lemma, note, problem, property, proposition, question, remark, solution, and theorem.

The optional argument [⟨optional material⟩] lets you specify additional text which will follow the environment caption and counter.

N.B. We have designed a new easy-to-use mechanism to define your own environments.

Furthermore the functions of the standard \newtheorem command have been *enhanced* to allow a more flexible font selection. All standard functions though remain intact (e.g. adding an optional argument specifying additional text after the environment counter).

Use the mechanism

```
\spherical theorem {\langle env \, name \rangle} {\langle caption \rangle} {\langle cap \, font \rangle} {\langle body \, font \rangle}
```

to define an environment compliant with the selected class options (see Sect. 2.2) and designed as the predefined theorem-like environments.

The argument $\{\langle env \ name \rangle\}$ specifies the environment name; $\{\langle caption \rangle\}$ specifies the environment's heading; $\{\langle cap\ font \rangle\}$ and $\{\langle body\ font \rangle\}$ specify the font shape of the caption and the text body.

N.B. If you want to use optional arguments in your definition of a theoremlike environment as done in the standard \newtheorem command, see below.

Use the mechanism

```
\verb|\spnewtheorem{| \langle env \, name \rangle}| [\langle numbered \, like \rangle] {\langle caption \rangle} {\langle cap \, font \rangle} {\langle body \, font \rangle}
```

to define an environment that shares its counter with another predefined environment $[\langle numbered\ like \rangle]$.

The optional argument $[\langle numbered\ like \rangle]$ specifies the environment with which to share the counter.

N.B. If you select the class option "envocuntsame" the only valid "numbered like" argument is [theorem].

Use the defined mechanism

```
\verb|\spnewtheorem| $$ \langle env \, name \rangle $$ {\langle caption \rangle} [\langle \langle within \rangle \rangle] $$ {\langle cap \, font \rangle} $$ {\langle body \, font \rangle} $$
```

to define an environment whose counter is prefixed by either the chapter or section number (use [chapter] or [section] for $[\langle within \rangle]$).

Use the defined mechanism

```
\verb|\spnewtheorem*| {\langle env \, name \rangle} {\langle caption \rangle} {\langle cap \, font \rangle} {\langle body \, font \rangle}
```

to define an *unnumbered* environment such as the pre-defined unnumbered environments *claim* and *proof*.

Use the defined declaration

\nocaption

in the argument $\{\langle caption \rangle\}$ if you want to skip the environment caption and use an environment counter only.

Use the defined environment

```
\begin{theopargself}
...
\end{theopargself}
```

as a wrapper to any theorem-like environment defined with the mechanism. It suppresses the brackets of the optional argument specifying additional text after the environment counter.

2.7 SVMono Commands for the Figure and Table Environments

Use the new declaration

$\sidecaption[\langle pos \rangle]$

to move the figure caption from beneath the figure (*default*) to the lower lefthand side of the figure.

The optional parameter [t] moves the figure caption to the upper left-hand side of the figure

N.B.1 (1) Make sure the declaration \sidecaption follows the \begin{figure} command, and (2) remember to use the standard \caption{} command for your caption text.

N.B.2 This declaration works only if the figure width is less than 7.8 cm. The caption text will be set raggedright if the width of the caption is less than 3.4 cm.

Use the new declaration

\samenumber

within the figure and table environment – directly after the $\lceil \langle environment \rangle \rceil$ command – to give the caption concerned the same counter as its predecessor (useful for long tables or figures spanning more than one page, see also the declaration $\lceil subfigures \rangle$ below.

To arrange multiple figures in a single environment use the newly defined commands

$\lceil (pos) \rceil$ and $\lceil (pos) \rceil$

within a {minipage}{\textwidth} environment. To allow enough space between two horizontally arranged figures use \hspace{\fill} to separate the corresponding \includegraphics{} commands. The required space between vertically arranged figures can be controlled with \\[12pt], for example.

The default position of the figures within their predefined space is flush left. The optional parameter [c] centers the figure, whereas [r] positions it flush right – use the optional parameter only if you need to specify a position other than flush left.

Use the newly defined commands

\leftcaption{} and \rightcaption{}

outside the minipage environment to put two figure captions next to each other.

Use the newly defined command

$\verb|\twocaptionwidth{$\langle width\rangle$}{\langle width\rangle$}|$

to overrule the default horizontal space of 5.4 cm provided for each of the abovedescribed caption commands. The first argument corresponds to \leftcaption and the latter to \rightcaption.

Use the new declaration

$\sl subfigures$

within the figure environment – directly after the \begin{figure} command – to subnumber multiple captions alphabetically within a single figure-environment.

N.B.: When used in combination with \samenumber the main counter remains the same and the alphabetical subnumbering is continued. It works properly only when you stick to the sequence \samenumber\subfigures.

If you do not include your figures as electronic files use the defined command

$\mbox{\mbox{\mbox{$\mbox{}\mbox{\m

to leave the desired amount of space for each figure. This command draws a vertical line of the height you specified.

Use the new command

\svhline

for setting in tables the horizontal line that separates the table header from the table content.

2.8 SVMono Environments for Exercises, Problems and Solutions

Use the environment command

\begin{prob}
\label{\(problem:key\)}
\(problem text\)
\end{prob}

to typeset and number each problem individually.

To facilitate the correct numbering of the solutions we have also defined a *solution environment*, which takes the problem's key, i.e. $\langle problem:key \rangle$ (see above) as argument.

Use the environment syntax

```
\begin{sol}{\langle problem:key\rangle}\\ \langle solution\ text\rangle\\ \begin{sol}\\ \end{sol}\end{sol}
```

to get the correct (i.e. problem =) solution number automatically.

2.9 SVMono Special Elements

Use the commands

```
\label{eq:continuity} $$ \begin{trailer} {\langle \mathit{Trailer Head} \rangle} $$ \\ \dots $$ \\ \end{trailer} $$
```

If you want to emphasize complete paragraphs of texts in an Trailer Head.

Use the commands

```
\begin{question} \{\langle \textit{Questions} \rangle\}\\ \dots\\ \\ \text{end} \\ \text{question} \}\\ \end{pulse}
```

If you want to emphasize complete paragraphs of texts in an Questions.

Use the commands

If you want to emphasize complete paragraphs of texts in an Important.

Use the commands

```
\begin{warning} {\langle Attention \rangle} \\ \dots \\ \end{warning}
```

If you want to emphasize complete paragraphs of texts in an Attention.

Use the commands

```
\begin{programcode} \{\langle \textit{Program Code} \rangle\}\\ \dots\\ \\ \begin{programcode} \\ \end{programcode} \}
```

If you want to emphasize complete paragraphs of texts in an Program Code.

Use the commands

```
\begin{tips}{\langle Tips \rangle}\ \dots \end{tips}
```

If you want to emphasize complete paragraphs of texts in an Tips.

Use the commands

```
\label{eq:continuity} $$ \begin{overview} {\langle Overview \rangle} \\ \dots \\ \\ \end{overview} $$
```

If you want to emphasize complete paragraphs of texts in an Overview.

Use the commands

```
\begin{backgroundinformation}{\langle \textit{Background Information}\rangle} \\ \dots \\ \begin{backgroundinformation}\\ \end{backgroundinformation}
```

If you want to emphasize complete paragraphs of texts in an Background Information.

Use the commands

```
\label{legaltext} $$ \left( \left( Legal \, Text \right) \right) $$ \dots $$ \left( end \left( egal \, text \right) \right) $$
```

If you want to emphasize complete paragraphs of texts in an Legal Text.

2.10 SVMono Commands for Styling References

The command

$\begin{tabular}{l} \mathbf{biblstarthook}\{\langle text \rangle\} \end{array}$

allows the inclusion of explanatory *text* between the bibliography heading and the actual list of references. The command must be placed before the thebibliography environment.

2.11 SVMono Commands for Styling the Index

The declaration

\threecolindex

sets the next index following the \threecolindex declaration in three columns.

The Springer declaration

allows the inclusion of explanatory *text* between the index heading and the actual list of references. The command must be placed before the theindex environment.

2.12 SVMono Commands for Styling the Table of Contents

Use the command

\setcounter{tocdepth}{number}

to alter the numerical depth of your table of contents.

Use the macro

\calctocindent

to recalculate the horizontal spacing for large section numbers in the table of contents set with the following variables:

\tocsecnum for the \tocsecnum section number section number subsection number \tocsubsecnum subsubsection paragraph number

Set the sizes of the variables concerned at the maximum numbering appearing in the current document.

In the preamble set e.g:

```
\settowidth{\tocchpnum}{36.\enspace}
\settowidth{\tocsecnum}{36.10\enspace}
\settowidth{\tocsubsecnum}{99.88.77}
\calctocindent
```

References

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