The topsection package*

Alexander I. Rozhenko
rozhenko@oapmg.sscc.ru

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`\topsection` This package implements an unnumbered top-level section (chapter in books and reports or section in articles):

```
\topsection{⟨title⟩}
```

Such a section is used when table of contents, index, or bibliography are prepared. So, the `\topsection` command can be used to make such definitions or redefinitions to be independent on class in use. The command definition is compatible with standard **article**, **book**, and **report** classes and also with the **ncc** class.

`\@iftopchapter` To distinguish what type of top section is used, the following conditional command is also specified:

```
\@iftopchapter{⟨chapter-clause⟩}{⟨section-clause⟩}
```

The ⟨*chapter-clause*⟩ is executed if top section is the `\chapter`. Otherwise, the ⟨*section-clause*⟩ is executed.

If the **nccsect** package is used together with this package, the top-section title is also written to the aux-file. To avoid this, use `\skipwritingtoaux` modifier just before the top section.

1 The Implementation

At first, we provide `\@mkboth` command to be sure that it is defined (in **ncc** class `\@mkboth` useless and so it does not defined here). If it does not exist yet, its default value will be equal to LaTeX's `\@gobbletwo` command.

```
1 ⟨*package⟩
2 \providecommand\@mkboth[2]{}
```

`\NCC@topsection` `\@iftopchapter` The `\NCC@topsection` macro contains a command to be used as a top section. To select an appropriate command, we test the `\chapter` command to be defined. The `\@iftopchapter` macro is also specified here.

```
3 \newcommand\@iftopchapter[2]{}
4 \@ifundefined{chapter}{%
```

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```
  \def\NCC@topsection{\section}%
  \let\@iftopchapter\@secondoftwo
}{%
  \def\NCC@topsection{\chapter}%
  \let\@iftopchapter\@firstoftwo
}
```

`\topsection` Now we define the `\topsection` command. When the package is loaded, we specify the command to be a new one. Its real definition is done at the beginning of document when all packages are already loaded and an appropriate decision can be selected.

```
\newcommand*\topsection[1]{}
\AtBeginDocument{%
```

If the **nccsect** package is in use, we define the `\topsection` command using the basic form of the corresponding sectioning command. The `\noheadingtag` modifier turns off the top-section numbering. In the definition, we test the `\@mkboth` command to be equal to `\@gobbletwo`. This situation appears in two cases: when the page style other than `headings` is used or when the **ncc** class is loaded. In the last case, the appropriate page header is already specified in sectioning command with corresponding mark-command (`\chaptermark` or `\sectionmark` updates both headers by the same manner). So, in both these cases we need not use the `\@mkboth`. But in other cases we specify the header mark in standard way and use the `\norunninghead` modifier to skip updating headers inside the sectioning command.

```
  \@ifpackageloaded{nccsect}{%
    \renewcommand*\topsection[1]{%
      \ifx\@mkboth\@gobbletwo
        \noheadingtag \NCC@topsection{#1}%
      \else
        \norunninghead
        \noheadingtag \NCC@topsection{#1}%
        \@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
      \fi
    }%
```

When the **nccsect** package does not loaded, the top-section definition uses just the same technique as in standard classes.

```
  }{%
    \renewcommand*\topsection[1]{%
      \NCC@topsection*{#1}%
      \@mkboth{\MakeUppercase{#1}}{\MakeUppercase{#1}}%
    }%
  }%
}
```

⟨/package⟩