The **desclist** package*

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The package implements the desclist environment and redefines the description environment to provide an optional parameter as a prototype for calculation the hang indent of the list.

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1 User Interface

desclist The desclist environment is similar to the description environment but adds more control for typesetting list labels. The usage:

```
\begin{desclist}{\langle prefix \rangle}{\langle suffix \rangle}[\langle prototype \rangle] \\ \item[\langle label \rangle] \ \langle text \rangle \\ \hdots \\ \hd
```

The $\langle prefix \rangle$ is inserted before the label and the suffix is inserted after the label. The optional $\langle prototype \rangle$ parameter specifies a prototype for calculation the minimum width of a list label and for calculation the hang indent of a list text. If this parameter is omitted, the standard hang indent value is used and the minimum width of list labels is equal to zero.

A list label is generated in the $item[\langle label \rangle]$ command as follows:

 $\langle prefix \rangle \langle label \rangle \{ \langle suffix \rangle \} \$

Therefore, you can finish the $\langle label \rangle$ with a command having a parameter to replace a suffix with something else. The \hfil command at the end of label adds necessary horizontal space if the label width is less than the minimum width of list

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label. Using a $\langle prototype \rangle$ together with the $\fill command in \langle prefix \rangle$ and/or $\langle suffix \rangle$ parameters, you can align left, align right, or center narrow list labels. The following example shows the benefits of the desclist environment:

M — an item with a narrow label;

MM — an item with a narrow label;

Mark — an item with a normal label;

Long mark — an item with too wide label; and

A mark without dash. Here we skip the desclist suffix.

It was prepared as follows:

```
\begin{desclist}{\sf}{ \rm\hfill---}[Mark]
\newcommand*\Skip[1]{}
\item[M] an item with a narrow label;
\item[MM] an item with a narrow label;
\item[Mark] an item with a normal label;
\item[Long mark] an item with too wide label; and
\item[A mark without dash.\Skip] Here we skip
the desclist suffix.
\end{desclist}
```

description The package also redefines the description environment to allow an optional parameter. In fact, the new implementation of description is equivalent to

```
\begin{desclist}{\normalfont\bfseries}{}[\langle prototype\rangle] \\ \dots \\ \end{desclist}
```

2 The Implementation

```
desclist The definition of the desclist environment is quite simple. If an optional parameter is omitted, pass an empty one to the internal command.
```

```
1 (*package)
2 \newenvironment*{desclist}[2]{%
3  \@ifnextchar[{\NCC@dlist{#1}{#2}}{\NCC@dlist{#1}{#2}[]}%
4 }{%
5  \endlist
6 }
The internal definition of the desclist is based on the \list:
```

```
7 \def\NCC@dlist#1#2[#3]{%
8 \list{}{%
```

\NCC@dlist

Specify just the same list parameters as in the description if the optional parameter is empty:

9 \def\@tempa{#3}\ifx\@tempa\@empty
10 \labelwidth\z@ \itemindent-\leftmargin

In other case, use the prototype to calculate the label width and margins:

11	\else
12	\settowidth\leftmargin{#1#3{#2}}%
13	\advance\leftmargin\labelsep
14	\labelwidth=\leftmargin
15	\itemindent\z0
16	\fi

Finally, define the **\makelabel** command adding the desclist prefix and suffix and finishing it with **\hfil** to allow left alignment for narrow labels. The suffix is enclosed in braces, to allow a trick with ignoring it in the label mark if necessary (see the example above):

```
17 \def\makelabel##1{\hspace\labelsep #1##1{#2}\hfil}%
18 }%
19 }
```

description Now we redefine the description environment. We do not test is it defined or not.

```
20 \def\description{\desclist{\normalfont\bfseries}{}
21 \let\enddescription=\enddesclist
22 (/package)
```