Package \texttt{dblfont}\* \\

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Abstract \\
Documentation for the package \texttt{dblfont}. \\

1 \textbf{Introduction} \\
This package provides the font \texttt{"DblFont"} (font \texttt{msbm10}), which corresponds to the so called blackboard-bold symbols. \\

2 \textbf{The options} \\
For each uppercase letter \texttt{"X"} a corresponding \texttt{"X"} and \texttt{"XX"} options exist: they declare the commands \texttt{"X"} and \texttt{"XX"} which both generate the letter X in \texttt{DblFont}. If a command named \texttt{"X"} or \texttt{"XX"} already exists in \LaTeX, its definition is first saved in \texttt{"BackDoubleX"} or \texttt{"BackDoubleXX"}, respectively. \\
Also a \texttt{"RT"} option exists: it declares the \texttt{"RT"} command, which generates the two letters RT in \texttt{DblFont} (used for the Raviart-Thomas spaces). \\

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3 Implementation

The font \texttt{\DblFont} is loaded, if not already done.

The \texttt{\DeclareDblFontSymbol} has one argument which is used both as the command name to define and as the output it should generate (in \texttt{\DblFont}). The \texttt{\csname #1 \endcsname} sequence adds a backslash in front of the argument, to get the command name.

The \texttt{\dECL@REdBLfONTsYMBOL} has one argument which is used both as the command name to define (doubled) and as the output it should generate (in \texttt{\DblFont}). The \texttt{\csname #1#1 \endcsname} sequence adds a backslash in front of the argument and doubles it, to get the command name.

An option exists for each uppercase letter: it declares the command \texttt{\X} which generates the letter \texttt{X} in \texttt{\DblFont}, where \texttt{X} denotes the letter under consideration. If a command named \texttt{\X} already exists in LATEX, its definition is saved in \texttt{\BackDoubleX}, before being redefined.

An option exists for each uppercase letter: it declares the command \texttt{\X} which generates the letter \texttt{X} in \texttt{\DblFont}, where \texttt{X} denotes the letter under consideration. If a command named \texttt{\X} already exists in LATEX, its definition is saved in \texttt{\BackDoubleX}, before being redefined.
An option “XX” exists for each uppercase letter “X”; it declares the command “\XX” which generates the letter X in DblFont. If a command named “\XX” already exists in \LaTeX, its definition is saved in “\BackDoubleXX”, before being redefined.
A further option is for Raviart-Thomas spaces: it declares the command \texttt{\textbackslash RT} which generates the two letters RT in \texttt{DblFont}.

Finally, the user option are parsed, thereby defining the corresponding commands.

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Change History

v0.1
General: First release 1

v1.0
General: Documentation added 1

v1.1
General: Added options in "XX" format 1

v2.0
General: Used "newcommand*" instead of "def" 1

v2.1
General: Added copyright notice and changed addresses 1

v2.2
General: Usage of the double-quote character (") avoided 1