boolexpr – a purely expandable way to evaluate boolean expressions (ε-\TeX).

Evaluation macros

They evaluate each atomic expression according to its type:

\begin{verbatim}
48 \fi}
49 \def\bex@test@Evalv1{
50  \ifxv1\the \expandafter\@secondoftwo
51  \else\ifxv1\number \expandafter\expandafter \expandafter \@secondoftwo
52  \else\ifxv1\dimexpr \expandafter\expandafter \expandafter
53    \expandafter\expandafter \expandafter
54    \expandafter\expandafter \expandafter
55    \expandafter\expandafter \expandafter \expandafter\@secondoftwo
56  \else\ifxv1\glueexpr \expandafter\expandafter \expandafter
57    \expandafter\expandafter \expandafter
58    \expandafter\expandafter \expandafter
59    \expandafter\expandafter \expandafter
60    \expandafter\expandafter \expandafter
61    \expandafter\expandafter \expandafter
62    \expandafter\expandafter \expandafter
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65    \expandafter\expandafter \expandafter
66    \expandafter\expandafter \expandafter
67    \expandafter\expandafter \expandafter
68    \expandafter\expandafter \expandafter
69    \expandafter\expandafter \expandafter
70    \expandafter\expandafter \expandafter \expandafter\@secondoftwo
71  \else\expandafter\expandafter \expandafter
72    \expandafter\expandafter \expandafter
73    \expandafter\expandafter \expandafter
74    \expandafter\expandafter \expandafter
75    \expandafter\expandafter \expandafter
76    \expandafter\expandafter \expandafter
77    \expandafter\expandafter \expandafter
78    \expandafter\expandafter \expandafter
79    \expandafter\expandafter \expandafter
80    \expandafter\expandafter \expandafter
81    \expandafter\expandafter \expandafter
82    \expandafter\expandafter \expandafter \expandafter\@firstoftwo
83 \def\bex@eqv1=v2:{x
84  \ifnum\numexpr v1-(v2)=0 \expandafter\bex@truepart
85  \else \expandafter\bex@falsepart
86  \fi}
87 \def\bex@neqv1<>v2:{x
88  \unless\ifnum\numexpr v1-(v2)=0 \expandafter\bex@truepart
89  \else \expandafter\bex@falsepart
90  \fi}
91 \def\bex@infeqv1<=v2:{x
92  \unless\ifnum\numexpr v1-(v2)>0 \expandafter\bex@truepart
93  \else \expandafter\bex@falsepart
94  \fi}
95 \def\bex@infv1<v2:{x
96  \ifnum\numexpr v1-(v2)<0 \expandafter\bex@truepart
97  \else \expandafter\bex@falsepart
98  \fi}
99 \def\bex@supeqv1>=v2:{x
100  \unless\ifnum\numexpr v1-(v2)<0 \expandafter\bex@truepart
101  \else \expandafter\bex@falsepart
102  \fi}
103 \def\bex@supv1>v2:{x
104  \ifnum\numexpr v1-(v2)>0 \expandafter\bex@truepart
105  \else \expandafter\bex@falsepart
106  \fi}
\end{verbatim}