The \texttt{dprogress} package*  

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1 Installation  

1. \texttt{pdflatex dprogress.ins}  
2. \texttt{pdflatex dprogress.dtx}  
3. Copy the generated file \texttt{dprogress.sty} into a directory where \texttt{latex} can find it.  

2 Introduction  

This package logs \texttt{latex}'s dprogress through the file, making the \texttt{latex} output more verbose. This helps to make \texttt{latex} debugging easier, as it is simpler to find where exactly \texttt{latex} failed. It outputs the typesetting of section, subsection, subsubsection headers and the \texttt{align} environment. The \texttt{align} environment is only output if the amsmath package is loaded.  

3 Usage  

Use  
\begin{verbatim}  
\usepackage{dprogress}  
\end{verbatim}  
as the last include, and read the \texttt{latex} output.  

4 Implementation  

\begin{verbatim}  
\dprogress@Display \newcommand{\dprogress@Display}[3]{%  
\typeout{#1 #2: #3}  
\typeout{}}  
\end{verbatim}  

A macro to typeout a header in a very obtrusive style  

*This document corresponds to \texttt{dprogress} v0.1, dated 2008/02/21.
\align Redefinition of the amsmath displayed equation environment. Output the equation number.
\ifdefined\align
\message{\string\foo\space is defined}\
\let\dprogress@OldAlign\align
\renewcommand{\align}{\typeout{}\typeout{= Equation: \theequation}\typeout{}}\dprogress@OldAlign
\else
\message{Progress: the align command is not defined, not overriding. If you use amsmath, be sure to include dprogress as the last file}\fi

\part Redefinition of the \part command. Output the section number and title.
\ifdefined\part
\let\dprogress@OldPart\part
\renewcommand{\part}{\@ifstar\dprogress@DisplayPartStar\dprogress@DisplayPartNoStar}
\newcommand{\dprogress@DisplayPartNoStar}[1]{\dprogress@Display{*}{Part \thepart}{#1}\dprogress@OldPart{#1}}
\newcommand{\dprogress@DisplayPartStar}[1]{\dprogress@Display{*}{Part \thepart}{#1}\dprogress@OldPart*{#1}}
\else
\message{Progress: the part command is not defined, not overriding. Be sure to include dprogress as the last file, if your document uses this command}\fi

\chapter Redefinition of the \chapter command. Output the section number and title.
\ifdefined\chapter
\let\dprogress@OldChapter\chapter
\renewcommand{\chapter}{\@ifstar\dprogress@DisplayChapterStar\dprogress@DisplayChapterNoStar}
\newcommand{\dprogress@DisplayChapterNoStar}[1]{\dprogress@Display{*}{Chapter \thechapter}{#1}\dprogress@OldChapter{#1}}
\newcommand{\dprogress@DisplayChapterStar}[1]{\dprogress@Display{*}{Chapter \thechapter}{#1}\dprogress@OldChapter*{#1}}
\else
\message{Progress: the chapter command is not defined, not overriding. Be sure to include dprogress as the last file, if your document uses this command}\fi
\section{Redefinition of the \section command. Output the section number and title.}
\begin{verbatim}
\ifdefined\section
  \let\dprogress@OldSection\section
  \renewcommand{\section}{\@ifstar
    \dprogress@DisplaySectionStar%
    \dprogress@DisplaySectionNoStar%
  }
  \newcommand{\dprogress@DisplaySectionNoStar}[1]{\dprogress@Display{*}{Section \thesection}{#1}
    \dprogress@OldSection{#1}~}
  \newcommand{\dprogress@DisplaySectionStar}[1]{\dprogress@Display{-}{Subsection \thesection}{#1}
    \dprogress@OldSubSection{#1}~}
\else
  \message{Progress: the section command is not defined, not overriding. Be sure to include dprogress as the last file, if your document uses this command.}~
\fi
\end{verbatim}

\section{Redefinition of the \subsection command. Output the section number and title.}
\begin{verbatim}
\ifdefined\subsection
  \let\dprogress@OldSubSection\subsection
  \renewcommand{\subsection}{\@ifstar
    \dprogress@DisplaySubSectionStar%
    \dprogress@DisplaySubSectionNoStar%
  }
  \newcommand{\dprogress@DisplaySubSectionNoStar}[1]{\dprogress@Display{-}{Subsection \thesubsection}{#1}
    \dprogress@OldSubSection{#1}~}
  \newcommand{\dprogress@DisplaySubSectionStar}[1]{\dprogress@Display{-}{Subsubsection \thesubsection}{#1}
    \dprogress@OldSubSubSection{#1}~}
\else
  \message{Progress: the subsection command is not defined, not overriding. Be sure to include dprogress as the last file, if your document uses this command.}~
\fi
\end{verbatim}

\section{Redefinition of the \subsubsection command. Output the section number and title.}
\begin{verbatim}
\ifdefined\subsubsection
  \let\dprogress@OldSubSubSection\subsubsection
  \renewcommand{\subsubsection}{\@ifstar
    \dprogress@DisplaySubSubSectionStar%
    \dprogress@DisplaySubSubSectionNoStar%
  }
  \newcommand{\dprogress@DisplaySubSubSectionNoStar}[1]{\dprogress@Display{-}{Subsubsection \thesubsection}{#1}
    \dprogress@OldSubSubSection{#1}~}
  \newcommand{\dprogress@DisplaySubSubSectionStar}[1]{\dprogress@Display{-}{Subsubsection \thesubsection}{#1}
    \dprogress@OldSubSubSection*{#1}~}
\else
  \message{Progress: the subsubsection command is not defined, not overriding. Be sure to include dprogress as the last file, if your document uses this command.}~
\fi
\end{verbatim}
\message{Progress: the subsection command is not defined, not overriding. Be sure to include dprogress as the last file, if your document uses this command.}