The apxproof package* Proofs in Appendix

Pierre Senellart
pierre@senellart.com

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1 Usage

TODO

2 Implementation

```
1 \RequirePackage{fancyvrb}
    2 \RequirePackage{ifthen}
    3 \RequirePackage{environ}
    4 \RequirePackage{bibunits}
    5 \RequirePackage{amsthm}
    7 \mbox{\mbox{\mbox{$\mbox{$makeatletter}$}}
    8 \newtheoremstyle{mystyle}%
                      {3pt}%
10
                       {3pt}%
11
                       {\itshape}%
                       {}%
                       {\scshape}%
                       {.}%
                      \{.5em\}\%
15
                  {}
16
17 \theoremstyle{mystyle}
18 \det \frac{1}{2}3{\%}
                       \thmnote{ {\the\thm@notefont #3}}}
21 \newwrite\axp@proofsfile
22 \immediate\openout\axp@proofsfile=\jobname.axp
23 \ \texttt{\ limmediate} \ \texttt{\ letter} \ \texttt{\ l
24 \def\FVB@VerbatimOut{%
```

^{*}This document corresponds to apxproof v1.0.0, dated 2016/10/27.

```
25
           \@bsphack
26
           \begingroup
                 \FV@UseKeyValues
27
28
                \FV@DefineWhiteSpace
29
                \def\FV@Space{\space}%
30
                \FV@DefineTabOut
                \def\FV@ProcessLine{\immediate\write\axp@proofsfile}%
31
                \let\FV@FontScanPrep\relax
32
33 %% DG/SR modification begin - May. 18, 1998 (to avoid problems with ligatures)
                \let\@noligs\relax
34
35 %% DG/SR modification end
                \FV@Scan}
36
37 \def\FVE@VerbatimOut{\endgroup\@esphack}
39 \let\oldproof\proof
40 \let\endoldproof\endproof
42 \renewenvironment{proof}
43 {\timediate\write\axp@proofsfile{\noexpand\begin{oldproof}}\VerbatimOut\}}
44 {\verb|\cong|} end {\|\cong|} end {
45
46 \AtEndDocument{
           \clearpage\onecolumn\appendix%
47
           \let\@oldbiblabel\@biblabel
48
           \def\@biblabel{\hspace*{-2em}\small\@oldbiblabel}
           \begin{bibunit}[alphaabbr]%
           \renewcommand{\refname}{REFERENCES FOR THE APPENDIX}%
           \immediate\closeout\axp@proofsfile\input{\jobname.axp}%
52
           \putbib%
53
           \end{bibunit}%
54
55 }
56
57 \newcounter{axp@rpcounter}
59 \newcommand{\definerep}[2]{%
60 \newtheorem*{#1rp}{#2}
61 \NewEnviron{#1rep}[2][]{%
           \verb|\addtocounter{axp@rpcounter}{1}||
62
           \begin{#1}[##1]\label{##2}\BODY\end{#1}%
63
           \global\expandafter\let\csname rplet\roman{axp@rpcounter}\endcsname\BODY%
64
           65
66 }}
67 \definerep{proposition}{Proposition}
68 \definerep{lemma}{Lemma}
69 \definerep{observation}{Observation}
70 \definerep{theorem}{Theorem}
71 \definerep{corollary}{Corollary}
72
```

73 \newcommand{\mysec}[2]{% 74 \edef\tmptitle{#1}%

```
\section{\tmptitle}\label{#2}%
  75
  76
               77 }
  78
  79 \newcommand{\mysubsec}[2]{%
               \edef\tmptitle{#1}%
  80
               \subsection{\tmptitle}\label{#2}%
  81
               82
  83 }
  84
  85 \newcommand{\myparagraph}[2]{%
               \edef\tmptitle{#1}%
  86
                \paragraph*{\tmptitle}%
  87
                \label{thm:limit} $$ \operatorname{\xspand}\subsection{#1}\noexpand\abel{#2}}% $$
  88
  89 }
  90
 91 \newcommand{\mysubparagraph}[2]{%
               \verb|\edef\tmptitle{#1.}||
  92
               \subparagraph*{\tmptitle}%
 93
               \label{thm:cond} $$ \operatorname{\noexpand\subsection}{\#1} \rightarrow {\#2}} % $$ immediate \write \axp@proofsfile{\noexpand\subsection}{\#2}} % $$ immediate \axp@proofsfile{\noexpand\subsection}{\#2} % $$ immediat
 94
 95 }
  97 \newenvironment{proofsketch}{\vskip3pt\noindent\emph{Proof sketch.}} }%
  98 {\hfill\qed\vskip3pt}
100 \verb|\newenvironment{toappendix}{\VerbatimOut}{\cline{Condition}} \\
101 \makeatother
```

Change History

v1.0.0 General: Initial version 1