

Test of the **overarrows** package compatibility with L^AT_EX engines

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Predefined commands

```
\begin{align*}
\vv{AB} & \& \& \vec{v} & \\
\overrightarrow{AB} & \& \& \underrightarrow{AB} & \\
\overleftarrow{AB} & \& \& \underleftarrow{AB} & \\
\overleftrightharpoonup{AB} & \& \& \underleftrightharpoonup{AB} & \\
\overrightarrow{AB} & \& \& \underrightharpoonup{AB} & \\
\overrightarrow{AB} & \& \& \underrightharpoonup{AB} & \\
\overrightarrow{AB} & \& \& \underleftharpoonup{AB} & \\
\overrightarrow{AB} & \& \& \underleftharpoonup{AB} & \\
\overbar{AB} & \& \& \underbar{AB} & \\
\end{align*}
```

	\vec{v}
\overrightarrow{AB}	$\underline{\overrightarrow{AB}}$
\overleftarrow{AB}	$\underline{\overleftarrow{AB}}$
$\overleftrightharpoonup{AB}$	$\underline{\overleftrightharpoonup{AB}}$
\overrightarrow{AB}	$\underline{\overrightarrow{AB}}$
\overrightarrow{AB}	$\underline{\overrightarrow{AB}}$
\overleftarrow{AB}	$\underline{\overleftarrow{AB}}$
\overbar{AB}	$\underline{\overbar{AB}}$
\overbar{AB}	$\underline{\overbar{AB}}$

harrowextender

```

\begin{align*}
\mathtt{-} & \sim \sim & & \& - & & \backslash\backslash
\mathtt{\backslash relbar} & \sim \sim & & \& \backslash relbar & & \backslash\backslash
\mathtt{\backslash relbareda} & \sim \sim & & \& \backslash relbareda & & \backslash\backslash
\mathtt{\backslash mathrel \backslash harrowextender} & \sim \sim & & \& \backslash mathrel{\backslash harrowextender} & & \backslash\backslash
\mathtt{\backslash ovar@auto@middle} & \sim \sim & & \& \backslash UseName{ovar@auto@middle} & & \backslash\backslash
\end{align*}

```

```

- = -
\relbar = -
\relbareda =
\mathrel\harrowextender =
\ovar@auto@middle = -

```

```

\NewOverArrowCommand{\testharrowextender}{%
middle config=auto
}
\TestOverArrow{\testharrowextender}

```

$\backslash displaystyle$	$\backslash textstyle$	$\backslash scriptstyle$	$\backslash scriptscriptstyle$
\vec{v}	\vec{v}	\vec{v}	\vec{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$
$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$

```

\NewOverArrowCommand{\useharrowextender}{%
middle config=harrowextender
}
\TestOverArrow{\useharrowextender}

```

$\backslash displaystyle$	$\backslash textstyle$	$\backslash scriptstyle$	$\backslash scriptscriptstyle$
\vec{v}	\vec{v}	\vec{v}	\vec{v}
\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}	\overrightarrow{AB}
$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$	$\overrightarrow{\text{grad}}$
$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$	$\overrightarrow{\text{my long vector}}$

TikZ arrows

```

\NewOverArrowCommand[tikz]{\tikzstandardthickness}{%
  path options={
    x=\overarrowlength, line width=\overarrowthickness
  },
  path={(0,0) -- (1,0)}, arrows={->}
}
\NewOverArrowCommand[tikz]{\tikzsmallerthickness}{%
  path options={
    x=\overarrowlength, line width=\overarrowsmallerthickness,
  },
  path={(0,0) -- (1,0)}, arrows={->}
}
\begin{align*}
  \tikzstandardthickness{ABCD} & \& \& \\
  \scriptscriptstyle \tikzstandardthickness{ABCD} & \& \& \\
  \tikzsmallerthickness{ABCD} & \& \& \\
  \scriptscriptstyle \tikzsmallerthickness{ABCD} & \& \& \\
\end{align*}
\end{tikzpicture}

```

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$

$$\overrightarrow{ABCD}$$