

Test of the **bracealign** package compatibility with the **unicode-math** package (Lua^AT_EX)

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1 `\underbrace` / `\overbrace`

```
\[
\begin{bracealign}
\underbrace{
\begin{bracealign}
\underbrace{\medcontent}_{1}
~+~
\underbrace{\smallcontent}_{2}
\end{bracealign}
}_{nested}
~+~
\underbrace{\hugecontent}_{3}
~+~
\underbrace{\bigcontent}_{4}
~+~
\underbrace{\smallcontent}_{5}
\end{bracealign}
\]
```

$$\underbrace{\underbrace{}_1 + \underbrace{}_2}_{nested} = \underbrace{}_3 + \underbrace{}_4 + \underbrace{}_5$$

```

\begin{bracealign}
\overbrace{
\begin{bracealign}
\overbrace{\medcontent}^{\{1\}}
~+~
\overbrace{\smallcontent}^{\{2\}}
\end{bracealign}
}^{\{nested\}}
~+~
\overbrace{\hugecontent}^{\{3\}}
~+~
\overbrace{\bigcontent}^{\{4\}}
~+~
\overbrace{\smallcontent}^{\{5\}}
\end{bracealign}

```

$$\overbrace{\underbrace{\hspace{1cm}}^{\{1\}} + \underbrace{\hspace{1cm}}^{\{2\}}}^{\{nested\}} = \underbrace{\hspace{2cm}}^{\{3\}} + \underbrace{\hspace{2cm}}^{\{4\}} + \underbrace{\hspace{1cm}}^{\{5\}}$$

```

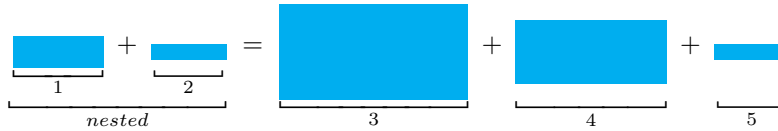
\begin{bracealign}
\overbrace{
\begin{bracealign}
\overbrace{\medcontent}^{\{1\}}
~+~
\overbrace{\smallcontent}^{\{2\}}
\end{bracealign}
}^{\{nested\}}
~+~
\underbrace{\hugecontent}_{\{3\}}
~+~
\overbrace{\bigcontent}^{\{4\}}
~+~
\underbrace{\smallcontent}_{\{5\}}
\end{bracealign}

```

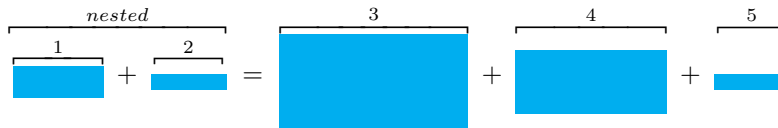
$$\overbrace{\underbrace{\hspace{1cm}}^{\{1\}} + \underbrace{\hspace{1cm}}^{\{2\}}}^{\{nested\}} = \underbrace{\hspace{2cm}}_{\{3\}} + \underbrace{\hspace{2cm}}^{\{4\}} + \underbrace{\hspace{1cm}}_{\{5\}}$$

2 \underbracket / \overbracket

```
\[
\begin{bracealign}
\underbracket{
\begin{bracealign}
\underbracket{\medcontent}_{1}
~+~
\underbracket{\smallcontent}_{2}
\end{bracealign}
}_{nested}
~+~
\underbracket{\hugecontent}_{3}
~+~
\underbracket{\bigcontent}_{4}
~+~
\underbracket{\smallcontent}_{5}
\end{bracealign}
\]
```



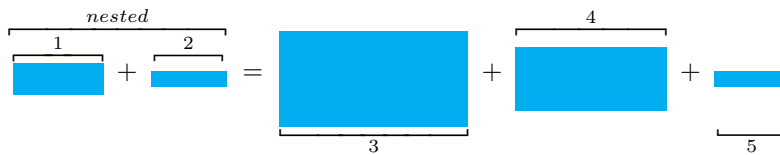
```
\[
\begin{bracealign}
\overbracket{
\begin{bracealign}
\overbracket{\medcontent}^{1}
~+~
\overbracket{\smallcontent}^{2}
\end{bracealign}
}_{nested}
~+~
\overbracket{\hugecontent}^{3}
~+~
\overbracket{\bigcontent}^{4}
~+~
\overbracket{\smallcontent}^{5}
\end{bracealign}
\]
```



```

\begin{bracket}
\overbracket{
\begin{bracket}
\overbracket{\medcontent}^{1}
~+~
\overbracket{\smallcontent}^{2}
\end{bracket}
}_{nested}
~+~
\underbracket{\hugecontent}_{3}
~+~
\overbracket{\bigcontent}^{4}
~+~
\underbracket{\smallcontent}_{5}
\end{bracket}

```

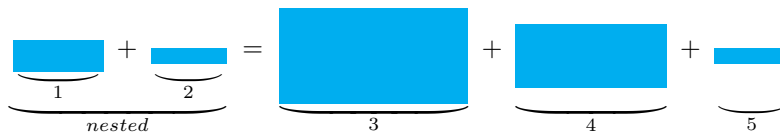


3 \underparen / \overbracket

```

\begin{bracket}
\underparen{
\begin{bracket}
\underparen{\medcontent}_{1}
~+~
\underparen{\smallcontent}_{2}
\end{bracket}
}_{nested}
~+~
\underparen{\hugecontent}_{3}
~+~
\overbracket{\bigcontent}^{4}
~+~
\underparen{\smallcontent}_{5}
\end{bracket}

```



```

\begin{bracealign}
\overparen{
\begin{bracealign}
\overparen{\medcontent}^{1}
~+~
\overparen{\smallcontent}^{2}
\end{bracealign}
}^{nested}
~\!=~
\overparen{\hugecontent}^{3}
~+~
\overparen{\bigcontent}^{4}
~+~
\overparen{\smallcontent}^{5}
\end{bracealign}

```

$$\overbrace{\overbrace{}^1 + \overbrace{}^2}^{nested} = \overbrace{\phantom{\hspace{1.5cm}}}^3 + \overbrace{\phantom{\hspace{1.5cm}}}^4 + \overbrace{\phantom{\hspace{1.5cm}}}^5$$

```

\begin{bracealign}
\overparen{
\begin{bracealign}
\overparen{\medcontent}^{1}
~+~
\overparen{\smallcontent}^{2}
\end{bracealign}
}^{nested}
~\!=~
\underparen{\hugecontent}_{3}
~+~
\overparen{\bigcontent}^{4}
~+~
\underparen{\smallcontent}_{5}
\end{bracealign}

```

$$\overbrace{\overbrace{}^1 + \overbrace{}^2}^{nested} = \underbrace{\phantom{\hspace{1.5cm}}}_3 + \overbrace{\phantom{\hspace{1.5cm}}}^4 + \underbrace{\phantom{\hspace{1.5cm}}}_5$$

3.1 Check of commands definition

```
Before \textsf{bracealign}:\newline
``\expandafter\meaning\csname underbrace\endcsname"
\par\bigskip
\begin{bracealign}
  Inside \textsf{bracealign}:\newline
  ``\expandafter\meaning\csname underbrace\endcsname"
\end{bracealign}
\par\bigskip
Before \textsf{bracealign}:\newline
``\expandafter\meaning\csname underbrace\endcsname"
```

Before bracealign:

“\protected macro:#1->\mathop {\Umathaccent bot-
tom 7\symoperators "023DF\scan_stop: {\{}#1}}\limits ”

Inside bracealign:

“\long macro:#1->\use:c {__bracealign_un-
derbrace_std_cmd:n}{\vphantom {\tl_use:c
{1__bracealign_underbrace_strutcontent_tl}}#1}”

Before bracealign:

“\protected macro:#1->\mathop {\Umathaccent bot-
tom 7\symoperators "023DF\scan_stop: {\{}#1}}\limits ”

```
Before \textsf{bracealign}:\newline
``\expandafter\meaning\csname underbracket\endcsname"
\par\bigskip
\begin{bracealign}
  Inside \textsf{bracealign}:\newline
  ``\expandafter\meaning\csname underbracket\endcsname"
\end{bracealign}
\par\bigskip
Before \textsf{bracealign}:\newline
``\expandafter\meaning\csname underbracket\endcsname"
```

Before bracealign:

“\protected macro:#1->\mathop {\Umathaccent bot-
tom 7\symoperators "023B5\scan_stop: {\{}#1}}\limits ”

Inside bracealign:

“\long macro:#1->\use:c {__bracealign_un-
derbracket_std_cmd:n}{\vphantom {\tl_use:c
{1__bracealign_underbracket_strutcontent_tl}}#1}”

Before bracealign:

“\protected macro:#1->\mathop {\Umathaccent bot-
tom 7\symoperators "023B5\scan_stop: {\{}#1}}\limits ”

```

Before \textsf{bracealign}:\newline
``\expandafter\meaning\csname underparen\endcsname"
\par\bigskip
\begin{bracealign}
  Inside \textsf{bracealign}:\newline
  ``\expandafter\meaning\csname underparen\endcsname"
\end{bracealign}
\par\bigskip
Before \textsf{bracealign}:\newline
``\expandafter\meaning\csname underparen\endcsname"

```

Before bracealign:

“\protected macro:#1->\mathop {\Umathaccent bot-
tom 7\symoperators "023DD\scan_stop: {\{ }#1}}\limits ”

Inside bracealign:

“\long macro:#1->\use:c {__bracealign_un-
derparen_std_cmd:n}{\vphantom {\tl_use:c
{1__bracealign_underparen_strutcontent_tl}}#1}”

Before bracealign:

“\protected macro:#1->\mathop {\Umathaccent bot-
tom 7\symoperators "023DD\scan_stop: {\{ }#1}}\limits ”