

Bogusław & Paweł Jackowscy

A simple quest

Quest 1: Is the output of those two boxes the same?

```
\noindent
\ vbox to1cm{\ hsize.4\ hsize text}%
\ vbox to1cm{\ hsize.4\ hsize \ write16{ }text}
```

No, it is quite different.

text

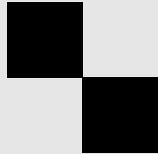
text

Both are underfulled which makes T_EX trying to abuse glues stretchability. Is there some glue? See the .log file. In the second case there is `\parskip` implicitly inserted before the paragraph. But there is no glue if the paragraph starts at the top of the list (there is even more fun with `\vtop`, see pearls 2007 and 2008).

Quest 2: Is the output of those two boxes the same?

```
\noindent
\ setbox0\ hbox{\ vrule height1cmwidth1cm}\ ht0 0mm \ box0
\ setbox0\ vbox{\ hrule height1cmwidth1cm}\ ht0 0mm \ box0
```

No, it is quite different.



In the case of `\hbox`, the contents is positioned starting from the box reference point, which is not affected by changing box height. Within `\vbox` the contents position starts at the top of the box, which we've just changed.