strut

strut. A strut is an invisible box whose width is zero and whose height and depth are slightly more than those of a "normal" line of type in the context. Struts are useful for obtaining uniform vertical spacing when TeX's usual line spacing is disabled, e.g., within a math formula or within a horizontal alignment where you've specified \offinterlineskip. Because a strut is taller and deeper than everything else on its line, it determines the height and depth of the line. You can produce a strut with the \strut command (p. '\strut') or the \mathstrut command (p. '\mathstrut'). You can use \strut anywhere, but you can only use \mathstrut when TeX is in math mode. A strut in plain TeX has height 8.5 pt and depth 3.5 pt, while a math strut has the height and depth of a left parenthesis in the current style (so it's smaller for subscripts and superscripts).

Here's an example showing how you might use a strut:

\vbox{\hsize = 3in \raggedright
 \strut Here is the first of two paragraphs that we're
 setting in a much narrower line length.\strut}
\vbox{\hsize = 3in \raggedright
 \strut Here is the second of two paragraphs that we're
 setting in a much narrower line length.\strut}

This input yields:

Here is the first of two paragraphs that we're setting in a much narrower line length.

Here is the second of two paragraphs that we're setting in a much narrower line length.

Without the struts the vboxes would be too close together. Similarly, in the formula:

## \$\overline{x\mathstrut} \otimes \overline{t\mathstrut}\$

the math struts cause both bars to be set at the same height even though the 'x' and the 't' have different heights:

 $\overline{x} \otimes \overline{t}$