Package innerscript v. 1.1 Documentation

Conrad Kosowsky February 2021

kosowsky.latex@gmail.com

For easy, off-the-shelf use, type the following in your document preamble and compile using LuaLATEX:

\usepackage{innerscript}

Abstract

The mathinner package modifies two aspects of TEX's automatic interatom mathematics spacing. The package uses LuaTEX's \Umath primitives to make superscripts and subscripts more closely resemble \textstyle and \displaystyle math and to treat \mathinner subformulas as \mathord, effectively eliminating this class. Users must load innerscript with the LuaTEX engine.

Keywords: superscript, subscript, spacing, mathinner, scriptstyle, scriptscriptstyle, LuaTFX, Umath, atom

For several years now, I wondered whether it was possible to change two features of T_EX 's mathematics spacing routine, namely the lack of automatic spacing in subscripts and superscripts and the extra space around $\mathbf{mathinner}$ subformulas. For example, compare

$$\sum_{i=1}^{n} x_i^{1+a} \qquad f(x) = g\left(\frac{1}{x}\right) \tag{1}$$

$$\sum_{i=1}^{n} x_i^{1+a} \qquad f(x) = g\left(\frac{1}{x}\right). \tag{2}$$

Equation (1) uses traditional TeX spacing, and equation (2) incorporates small adjustments. On the left, the subscript under the summation symbol and the superscript of x_i contain small amounts of extra space around the = and + signs respectively, and on the right, the g is directly next to the parenthesis instead of being an extra \text{thinmuskip} away. In traditional TeX, automating these changes would be impossible to do easily, but LuaTeX's extra mathmode primitives provide direct access to the interatom space parameters. The innerscript package is my attempt to automate the changes in equation (2) using \Umath spacing commands, and as far as I am aware, it is the first package to do so. (Although please let me know if this is incorrect!) It provides no user-level commands and alters spacing automatically. This file explains how to load the package and documents the internal code.

Users can load innerscript with the standard

 $\usepackage[\langle options \rangle] \{unerscript\}$

syntax. The package must be loaded with LuaLATEX, and if it detects a different engine, in-

¹See section 7.5 of the LuaT_FX manual.

Table 1: Package Options for innerscript

Package Option	Meaning
script scriptscript	Changes to \scriptstyle and \crampedscriptstyle spacing Changes to \scriptscriptstyle and
inner	\crampedscriptscriptstyle spacing Treat \mathinner subformulas as \mathord
no-script no-scriptscript	No changes to \scriptstyle and \crampedscriptstyle spacing No changes to \scriptscriptstyle and \crampedscriptscriptstyle spacing
no-inner	No changes to treatment of \mathinner subformulas

nerscript will issue an error.² It is possible to continue compiling past the error with no other issues, but if you do, innerscript will not be able to change any math spacing in your document. Table 1 shows the six package options, and by default innerscript selects the first three. The script and scriptscript options will affect spacing of symbols in superscripts and subscripts, and the inner option will eliminate extra spacing for \mathinner subformulas, such as fractions and \left-\right delimiter pairs. The no- variants disable the spacing adjustments for the corresponding default option.

In standard mathematics typesetting, TEX uses different font sizes for different portions of math lists, and it chooses a certain size based on the math style currently in use. TEX uses \displaystyle and \textstyle as the default for display and inline math respectively, and while in either of these styles or the corresponding cramped versions, it adds extra space between symbols of certain math classes. TEX switches to \scriptstyle, \scriptscriptstyle, or the corresponding cramped versions to typeset superscripts and subscripts, and in doing so, it forgoes most of the spacing additions from \textstyle.

The script and scriptscript options reverse this decision by forcing interatom spacing to more closely resemble that of \textstyle. Table 2 lists the amount of space that innerscript inserts between various pairs of math classes for each option, and adjustments of this type will resemble the changes to the summation from equation (2). The inner package option forces all spacing around \mathinner subformulas to take the value it would if the formula had type \mathord. Traditionally TeX places more space around \mathinner subformulas than it does around \mathord atoms, so loading innerscript with inner will remove a certain amount of space from math formulas. Changes of this type will typically resemble

²Specifically, innerscript checks whether \Umathordordspacing is defined.

³The eight math styles are \displaystyle, \textstyle, \scriptstyle, \scriptscriptstyle, and cramped versions of those four, where the control sequence begins with the word "cramped." Technically a math style is an instruction to pull math symbols from a specific font associated with a math family and to apply certain rules for assembling formulas to this part of the math list. See Donald Knuth, *The TeXbook*, (Addison Wesley, 1986), 140–143, 441–447; David Salomon, *The Advanced TeXbook*, (Springer, 1995), 254–256.

⁴The eight classes are \mathord, \mathop, \mathbin, \mathrel, \mathopen, \mathclose, \mathpunct, and \mathinner. They are specific to particular symbols and determine spacing in math formulas. As part of its definition, every math symbol is associated with a certain math class. See Donald Knuth, *The TeXbook*, 170; David Salomon, *The Advanced TeXbook*, 256–258.

Table 2: Spacing Inserted by innerscript between Consecutive Atoms

Consecutive Atom Types	Option script	Option scriptscript
\mathord\mathop	0.6\thinmuskip	$0.4 \$ thinmuskip
\mathord\mathbin	$0.7 \$ thinmuskip	$0.5 \$ thinmuskip
\mathord\mathrel	\thinmuskip	$0.7 \$ thinmuskip
\mathord\mathinner	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathop\mathord	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathbf{mathop}	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathop\mathrel	\thinmuskip	$0.7 \$ thinmuskip
\mathop\mathinner	\thinmuskip	$0.7 \$ thinmuskip
\mathbin\mathord	$0.7 \$ thinmuskip	$0.5 \$ thinmuskip
\mathbin\mathop	$0.7 \$ thinmuskip	$0.5 \$ thinmuskip
\mathbin\mathopen	$0.7 \$ thinmuskip	$0.5 \$ thinmuskip
\mathbin\mathinner	$0.7 \$ thinmuskip	$0.5 \$ thinmuskip
\mathrel\mathord	\thinmuskip	$0.7 \$ thinmuskip
\mathrel\mathop	\thinmuskip	$0.7 \$ thinmuskip
\mathrel\mathopen	\thinmuskip	$0.7 \$ thinmuskip
\mathrel\mathinner	\thinmuskip	$0.7 \$ thinmuskip
\mathclose\mathop	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathclose\mathbin	$0.7 \$ thinmuskip	$0.5 \$ thinmuskip
\mathclose\mathrel	\thinmuskip	$0.7 \$ thinmuskip
\mathclose\mathinner	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathpunct\mathord	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathpunct\mathop	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathpunct\mathrel	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathpunct\mathopen	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathpunct\mathclose	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
$\mbox{\mbox{\tt mathpunct}}$	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathpunct\mathinner	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathinner\mathord	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathinner\mathop	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathinner\mathbin	$0.7 \$ thinmuskip	$0.5 \$ thinmuskip
\mathinner\mathrel	\thinmuskip	$0.7 \$ thinmuskip
\mathinner\mathopen	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip
\mathinner\mathpunct	$0.6 \$ thinmuskip	$0.4 \ {\rm thinmuskip}$
\mathinner\mathinner	$0.6 \$ thinmuskip	$0.4 \$ thinmuskip

the adjustment to the function g from equation (2). Users who want to further change the spacing in their math formulas should manually add glue, muglue, or $\ensuremath{\mbox{kern}}$ to their math lists or provide new values for the $\ensuremath{\mbox{Umath}}$ spacing parameters in their document preamble.

Implementation

37 \newmuskip\IS@skip

Finally, we come to the implementation, and we begin by declaring the package. The conditionals \ifIS@script, \ifIS@scriptscript, and \ifIS@inner encode option information, and we set them according to the user's option declaration.

```
1 \NeedsTeXFormat{LaTeX2e}
2 \ProvidesPackage{innerscript}[2021/02/07 v. 1.1 Package innerscript]
3 \newif\ifIS@script\IS@scripttrue
4 \newif\ifIS@scriptscript\IS@scriptscripttrue
5 \newif\ifIS@inner\IS@innertrue
6 \DeclareOption{script}{\IS@scripttrue}
7 \DeclareOption{scriptscript}{\IS@scriptscripttrue}
8 \DeclareOption{inner}{\IS@innertrue}
9 \DeclareOption{no-script}{\IS@scriptfalse}
10 \DeclareOption{no-scriptscript}{\IS@scriptscriptfalse}
11 \DeclareOption{no-inner}{\IS@innerfalse}
12 \ProcessOptions*
```

Check whether \Umathordordspacing is defined. If not, issue an error and \endinput. We won't be able to print multiple spaces at once because TeX collapses multiple space characters, so within a group, we change + to active and define it to be a space.

```
13 \ifx\Umathordordspacing\Qundefined
    \bgroup\catcode`\+=13
      \def+{}
15
      \def\IS@LuaTeXError{\GenericError{}
16
        {\MessageBreak\MessageBreak
17
        Package innerscript error:
18
        \MessageBreak\MessageBreak
19
        ++**************MessageBreak
20
        ++*+++++++++++++*\MessageBreak
21
        ++*+++CANNOT LOAD+++*\MessageBreak
        ++*++INNERSCRIPT+++*\MessageBreak
23
        ++*++LuaTeX Needed++*\MessageBreak
24
        ++*+++++++++++++*\MessageBreak
        26
        {See the innerscript package documentation for explanation.}
        {I need LuaTeX to make the innerscript package work. It\MessageBreak
        looks like the current engine is something else, so I\MessageBreak
29
        can't load the package file. To use innerscript, please\MessageBreak
30
        typeset with LuaLaTeX. To continue without innerscript,\MessageBreak
31
        press return.}}
32
      \IS@LuaTeXError
33
    \expandafter\endinput\ we \endinput with a balanced conditional
36 \fi
We will use \IS@skip to store muglue information later.
```

First we set the spacing for \scriptstyle and \crampedscriptstyle atoms. Each command has the form

where the *math classes* are a pair of choices from ord, op, bin, rel, open, close, punct, and inner. The *math style* is either scriptstyle or crampedscriptstyle, and the *factor* corresponds to the spacing listed in Table 2. We set the \scriptstyle and \scriptscriptstyle spacing before handling \mathinner subformulas because we want to use updated spacing values for the \mathinner space adjustments. Otherwise, the \scriptstyle and \scriptscriptstyle adjustments will overwrite changes to \mathinner spacing.

```
\wlog{Package innerscript Info:
39
      Adjusting spacing for \string\scriptstyle.}
40
    \Umathordopspacing\scriptstyle=0.6\thinmuskip
41
    \Umathordbinspacing\scriptstyle=0.7\thinmuskip
42
    \Umathordrelspacing\scriptstyle=\thinmuskip
43
    \Umathordinnerspacing\scriptstyle=0.6\thinmuskip
44
    \Umathopordspacing\scriptstyle=0.6\thinmuskip
45
    \Umathopopspacing\scriptstyle=0.6\thinmuskip
46
    \Umathoprelspacing\scriptstyle=\thinmuskip
47
    \Umathopinnerspacing\scriptstyle=\thinmuskip
48
    \Umathbinordspacing\scriptstyle=0.7\thinmuskip
49
    \Umathbinopspacing\scriptstyle=0.7\thinmuskip
50
    \Umathbinopenspacing\scriptstyle=0.7\thinmuskip
51
    \Umathbininnerspacing\scriptstyle=0.7\thinmuskip
52
    \Umathrelordspacing\scriptstyle=\thinmuskip
53
    \Umathrelopspacing\scriptstyle=\thinmuskip
54
    \Umathrelopenspacing\scriptstyle=\thinmuskip
55
    \Umathrelinnerspacing\scriptstyle=\thinmuskip
56
    \Umathcloseopspacing\scriptstyle=0.6\thinmuskip
57
    \Umathclosebinspacing\scriptstyle=0.7\thinmuskip
59
    \Umathcloserelspacing\scriptstyle=\thinmuskip
    \Umathcloseinnerspacing\scriptstyle=0.6\thinmuskip
60
    \Umathpunctordspacing\scriptstyle=0.6\thinmuskip
61
    \Umathpunctopspacing\scriptstyle=0.6\thinmuskip
62
    \Umathpunctrelspacing\scriptstyle=0.6\thinmuskip
63
    \Umathpunctopenspacing\scriptstyle=0.6\thinmuskip
64
    \Umathpunctclosespacing\scriptstyle=0.6\thinmuskip
65
    \Umathpunctpunctspacing\scriptstyle=0.6\thinmuskip
66
    \Umathpunctinnerspacing\scriptstyle=0.6\thinmuskip
67
68
    \Umathinnerordspacing\scriptstyle=0.6\thinmuskip
    \Umathinneropspacing\scriptstyle=0.6\thinmuskip
69
70
    \Umathinnerbinspacing\scriptstyle=0.7\thinmuskip
    \Umathinnerrelspacing\scriptstyle=\thinmuskip
71
72
    \Umathinneropenspacing\scriptstyle=0.6\thinmuskip
    \Umathinnerpunctspacing\scriptstyle=0.6\thinmuskip
73
    \Umathinnerinnerspacing\scriptstyle=0.6\thinmuskip
```

38 \ifIS@script

```
\wlog{Package innerscript Info:
75
       Adjusting spacing for \string\crampedscriptstyle.}
76
     \Umathordopspacing\crampedscriptstyle=0.6\thinmuskip
77
     \Umathordbinspacing\crampedscriptstyle=0.7\thinmuskip
78
     \Umathordrelspacing\crampedscriptstyle=\thinmuskip
79
     \Umathordinnerspacing\crampedscriptstyle=0.6\thinmuskip
80
     \Umathopordspacing\crampedscriptstyle=0.6\thinmuskip
81
     \Umathopopspacing\crampedscriptstyle=0.6\thinmuskip
82
     \Umathoprelspacing\crampedscriptstyle=\thinmuskip
83
     \Umathopinnerspacing\crampedscriptstyle=\thinmuskip
84
     \Umathbinordspacing\crampedscriptstyle=0.7\thinmuskip
85
     \Umathbinopspacing\crampedscriptstyle=0.7\thinmuskip
86
87
     \Umathbinopenspacing\crampedscriptstyle=0.7\thinmuskip
     \Umathbininnerspacing\crampedscriptstyle=0.7\thinmuskip
88
     \Umathrelordspacing\crampedscriptstyle=\thinmuskip
89
     \Umathrelopspacing\crampedscriptstyle=\thinmuskip
90
     \Umathrelopenspacing\crampedscriptstyle=\thinmuskip
91
     \Umathrelinnerspacing\crampedscriptstyle=\thinmuskip
92
     \Umathcloseopspacing\crampedscriptstyle=0.6\thinmuskip
93
     \Umathclosebinspacing\crampedscriptstyle=0.7\thinmuskip
94
     \Umathcloserelspacing\crampedscriptstyle=\thinmuskip
95
     \Umathcloseinnerspacing\crampedscriptstyle=0.6\thinmuskip
96
     \Umathpunctordspacing\crampedscriptstyle=0.6\thinmuskip
97
     \Umathpunctopspacing\crampedscriptstyle=0.6\thinmuskip
98
     \Umathpunctrelspacing\crampedscriptstyle=0.6\thinmuskip
99
     \Umathpunctopenspacing\crampedscriptstyle=0.6\thinmuskip
100
     \Umathpunctclosespacing\crampedscriptstyle=0.6\thinmuskip
101
     \Umathpunctpunctspacing\crampedscriptstyle=0.6\thinmuskip
102
     \Umathpunctinnerspacing\crampedscriptstyle=0.6\thinmuskip
103
     \Umathinnerordspacing\crampedscriptstyle=0.6\thinmuskip
104
     \Umathinneropspacing\crampedscriptstyle=0.6\thinmuskip
105
     \Umathinnerbinspacing\crampedscriptstyle=0.7\thinmuskip
106
     \Umathinnerrelspacing\crampedscriptstyle=\thinmuskip
107
     \Umathinneropenspacing\crampedscriptstyle=0.6\thinmuskip
108
     \Umathinnerpunctspacing\crampedscriptstyle=0.6\thinmuskip
109
110
     \Umathinnerinnerspacing\crampedscriptstyle=0.6\thinmuskip
111 \fi
Set the spacing for \scriptscriptstyle and \crampedscriptscriptstyle. The process is
the same as it was for \scriptstyle except with different \muskip factors.
112 \ifIS@scriptscript
     \wlog{Package innerscript Info:
113
       Adjusting spacing for \string\scriptscriptstyle.}
114
     \Umathordopspacing\scriptscriptstyle=0.4\thinmuskip
115
116
     \Umathordbinspacing\scriptscriptstyle=0.5\thinmuskip
     \Umathordrelspacing\scriptscriptstyle=0.7\thinmuskip
117
     \Umathordinnerspacing\scriptscriptstyle=0.4\thinmuskip
118
```

\Umathopordspacing\scriptscriptstyle=0.4\thinmuskip

119

```
\Umathopopspacing\scriptscriptstyle=0.4\thinmuskip
120
     \Umathoprelspacing\scriptscriptstyle=0.7\thinmuskip
121
     \Umathopinnerspacing\scriptscriptstyle=0.7\thinmuskip
122
     \Umathbinordspacing\scriptscriptstyle=0.5\thinmuskip
123
     \Umathbinopspacing\scriptscriptstyle=0.5\thinmuskip
124
     \Umathbinopenspacing\scriptscriptstyle=0.5\thinmuskip
125
     \Umathbininnerspacing\scriptscriptstyle=0.5\thinmuskip
126
     \Umathrelordspacing\scriptscriptstyle=0.7\thinmuskip
127
     \Umathrelopspacing\scriptscriptstyle=0.7\thinmuskip
128
     \Umathrelopenspacing\scriptscriptstyle=0.7\thinmuskip
129
     \Umathrelinnerspacing\scriptscriptstyle=0.7\thinmuskip
130
     \Umathcloseopspacing\scriptscriptstyle=0.4\thinmuskip
131
     \Umathclosebinspacing\scriptscriptstyle=0.5\thinmuskip
132
     \Umathcloserelspacing\scriptscriptstyle=0.7\thinmuskip
133
     \Umathcloseinnerspacing\scriptscriptstyle=0.4\thinmuskip
134
     \Umathpunctordspacing\scriptscriptstyle=0.4\thinmuskip
135
     \Umathpunctopspacing\scriptscriptstyle=0.4\thinmuskip
136
     \Umathpunctrelspacing\scriptscriptstyle=0.4\thinmuskip
137
     \Umathpunctopenspacing\scriptscriptstyle=0.4\thinmuskip
138
     \Umathpunctclosespacing\scriptscriptstyle=0.4\thinmuskip
139
     \Umathpunctpunctspacing\scriptscriptstyle=0.4\thinmuskip
140
     \Umathpunctinnerspacing\scriptscriptstyle=0.4\thinmuskip
141
     \Umathinnerordspacing\scriptscriptstyle=0.4\thinmuskip
142
     \Umathinneropspacing\scriptscriptstyle=0.4\thinmuskip
143
     \Umathinnerbinspacing\scriptscriptstyle=0.5\thinmuskip
144
     \Umathinnerrelspacing\scriptscriptstyle=0.7\thinmuskip
145
     \Umathinneropenspacing\scriptscriptstyle=0.4\thinmuskip
146
     \Umathinnerpunctspacing\scriptscriptstyle=0.4\thinmuskip
147
     \Umathinnerinnerspacing\scriptscriptstyle=0.4\thinmuskip
148
     \wlog{Package innerscript Info:
149
       Adjusting spacing for \string\crampedscriptscriptstyle.}
150
     \Umathordopspacing\crampedscriptscriptstyle=0.4\thinmuskip
151
     \Umathordbinspacing\crampedscriptscriptstyle=0.5\thinmuskip
152
     \Umathordrelspacing\crampedscriptscriptstyle=0.7\thinmuskip
153
     \Umathordinnerspacing\crampedscriptscriptstyle=0.4\thinmuskip
154
155
     \Umathopordspacing\crampedscriptscriptstyle=0.4\thinmuskip
     \Umathopopspacing\crampedscriptscriptstyle=0.4\thinmuskip
156
     \Umathoprelspacing\crampedscriptscriptstyle=0.7\thinmuskip
157
     \Umathopinnerspacing\crampedscriptscriptstyle=0.7\thinmuskip
158
     \Umathbinordspacing\crampedscriptscriptstyle=0.5\thinmuskip
159
     \Umathbinopspacing\crampedscriptscriptstyle=0.5\thinmuskip
160
     \Umathbinopenspacing\crampedscriptscriptstyle=0.5\thinmuskip
161
     \Umathbininnerspacing\crampedscriptscriptstyle=0.5\thinmuskip
162
     \Umathrelordspacing\crampedscriptscriptstyle=0.7\thinmuskip
163
     \Umathrelopspacing\crampedscriptscriptstyle=0.7\thinmuskip
164
     \Umathrelopenspacing\crampedscriptscriptstyle=0.7\thinmuskip
165
     \Umathrelinnerspacing\crampedscriptscriptstyle=0.7\thinmuskip
166
```

```
\Umathcloseopspacing\crampedscriptscriptstyle=0.4\thinmuskip
167
     \Umathclosebinspacing\crampedscriptscriptstyle=0.5\thinmuskip
168
     \Umathcloserelspacing\crampedscriptscriptstyle=0.7\thinmuskip
169
     \Umathcloseinnerspacing\crampedscriptscriptstyle=0.4\thinmuskip
170
     \Umathpunctordspacing\crampedscriptscriptstyle=0.4\thinmuskip
171
     \Umathpunctopspacing\crampedscriptscriptstyle=0.4\thinmuskip
172
     \Umathpunctrelspacing\crampedscriptscriptstyle=0.4\thinmuskip
173
     \Umathpunctopenspacing\crampedscriptscriptstyle=0.4\thinmuskip
174
     \Umathpunctclosespacing\crampedscriptscriptstyle=0.4\thinmuskip
175
     \Umathpunctpunctspacing\crampedscriptscriptstyle=0.4\thinmuskip
176
     \Umathpunctinnerspacing\crampedscriptscriptstyle=0.4\thinmuskip
177
     \Umathinnerordspacing\crampedscriptscriptstyle=0.4\thinmuskip
178
179
     \Umathinneropspacing\crampedscriptscriptstyle=0.4\thinmuskip
     \Umathinnerbinspacing\crampedscriptscriptstyle=0.5\thinmuskip
180
     \Umathinnerrelspacing\crampedscriptscriptstyle=0.7\thinmuskip
181
     \Umathinneropenspacing\crampedscriptscriptstyle=0.4\thinmuskip
182
     \Umathinnerpunctspacing\crampedscriptscriptstyle=0.4\thinmuskip
183
     \Umathinnerinnerspacing\crampedscriptscriptstyle=0.4\thinmuskip
184
185 \fi
```

Now set the spacing for \mathinner subformulas. We store each \mathord spacing dimension in \IS@skip and use it to reset the \mathinner spacing. Each command has the form

```
\label{eq:local_constraint} $$ \S \end{\constraint} $$ \C \end{\constraint} $$$ \C \end{\constraint} $$$$ \C \end{\constraint} $$$\C \en
```

or

```
\label{eq:local_style} $$\IS@skip\Umathord(math\ class)\spacing(math\ style)$$ \Umathinner(math\ class)\spacing(math\ style)\IS@skip,
```

where *math class* is one of ord, op, bin, rel, open, close, punct, or inner. The *math style* is either displaystyle, textstyle, scriptstyle, scriptscriptstyle, or the cramped version of any of those four.

```
186 \if IS@inner
     \wlog{Package innerscript Info:
187
       Adjusting spacing for \string\mathinner.}
188
     \IS@skip\Umathordordspacing\displaystyle
189
     \Umathordinnerspacing\displaystyle\IS@skip
190
     \IS@skip\Umathordordspacing\textstyle
191
     \Umathordinnerspacing\textstyle\IS@skip
192
     \IS@skip\Umathordordspacing\scriptstyle
193
     \Umathordinnerspacing\scriptstyle\IS@skip
194
     \IS@skip\Umathordordspacing\scriptscriptstyle
195
     \Umathordinnerspacing\scriptscriptstyle\IS@skip
196
     \IS@skip\Umathordordspacing\crampeddisplaystyle
197
     \Umathordinnerspacing\crampeddisplaystyle\IS@skip
198
     \IS@skip\Umathordordspacing\crampedtextstyle
199
     \Umathordinnerspacing\crampedtextstyle\IS@skip
200
201
     \IS@skip\Umathordordspacing\crampedscriptstyle
```

- 202 \Umathordinnerspacing\crampedscriptstyle\IS@skip
- 203 \IS@skip\Umathordordspacing\crampedscriptscriptstyle
- 204 \Umathordinnerspacing\crampedscriptscriptstyle\IS@skip
- 206 \Umathopinnerspacing\displaystyle\IS@skip
- 207 \IS@skip\Umathopordspacing\textstyle
- 208 \Umathopinnerspacing\textstyle\IS@skip
- 209 \IS@skip\Umathopordspacing\scriptstyle
- 210 \Umathopinnerspacing\scriptstyle\IS@skip
- 211 \IS@skip\Umathopordspacing\scriptscriptstyle
- 212 \Umathopinnerspacing\scriptscriptstyle\IS@skip
- 213 \IS@skip\Umathopordspacing\crampeddisplaystyle
- 214 \Umathopinnerspacing\crampeddisplaystyle\IS@skip
- 215 \IS@skip\Umathopordspacing\crampedtextstyle
- 216 \Umathopinnerspacing\crampedtextstyle\IS@skip
- 217 \IS@skip\Umathopordspacing\crampedscriptstyle
- 218 \Umathopinnerspacing\crampedscriptstyle\IS@skip
- 219 \IS@skip\Umathopordspacing\crampedscriptscriptstyle
- 220 \Umathopinnerspacing\crampedscriptscriptstyle\IS@skip
- 221 \IS@skip\Umathbinordspacing\displaystyle
- 222 \Umathbininnerspacing\displaystyle\IS@skip
- 223 \IS@skip\Umathbinordspacing\textstyle
- 224 \Umathbininnerspacing\textstyle\IS@skip
- 225 \IS@skip\Umathbinordspacing\scriptstyle
- 226 \Umathbininnerspacing\scriptstyle\IS@skip
- 227 \IS@skip\Umathbinordspacing\scriptscriptstyle
- 228 \Umathbininnerspacing\scriptscriptstyle\IS@skip
- 229 \IS@skip\Umathbinordspacing\crampeddisplaystyle
- 230 \Umathbininnerspacing\crampeddisplaystyle\IS@skip
- 231 \IS@skip\Umathbinordspacing\crampedtextstyle
- 232 \Umathbininnerspacing\crampedtextstyle\IS@skip
- 233 \IS@skip\Umathbinordspacing\crampedscriptstyle
- 234 \Umathbininnerspacing\crampedscriptstyle\IS@skip
- 235 \IS@skip\Umathbinordspacing\crampedscriptscriptstyle
- 236 \Umathbininnerspacing\crampedscriptscriptstyle\IS@skip
- 237 \IS@skip\Umathrelordspacing\displaystyle
- 238 \Umathrelinnerspacing\displaystyle\IS@skip
- 239 \IS@skip\Umathrelordspacing\textstyle
- 240 \Umathrelinnerspacing\textstyle\IS@skip
- 241 \IS@skip\Umathrelordspacing\scriptstyle
- 242 \Umathrelinnerspacing\scriptstyle\IS@skip
- 243 \IS@skip\Umathrelordspacing\scriptscriptstyle
- 244 \Umathrelinnerspacing\scriptscriptstyle\IS@skip
- 245 \IS@skip\Umathrelordspacing\crampeddisplaystyle
- 246 \Umathrelinnerspacing\crampeddisplaystyle\IS@skip
- 247 \IS@skip\Umathrelordspacing\crampedtextstyle
- 248 \Umathrelinnerspacing\crampedtextstyle\IS@skip

- 249 \IS@skip\Umathrelordspacing\crampedscriptstyle
- 250 \Umathrelinnerspacing\crampedscriptstyle\IS@skip
- 251 \IS@skip\Umathrelordspacing\crampedscriptscriptstyle
- 252 \Umathrelinnerspacing\crampedscriptscriptstyle\IS@skip
- 253 \IS@skip\Umathopenordspacing\displaystyle
- 254 \Umathopeninnerspacing\displaystyle\IS@skip
- 255 \IS@skip\Umathopenordspacing\textstyle
- 256 \Umathopeninnerspacing\textstyle\IS@skip
- 257 \IS@skip\Umathopenordspacing\scriptstyle
- 258 \Umathopeninnerspacing\scriptstyle\IS@skip
- 259 \IS@skip\Umathopenordspacing\scriptscriptstyle
- 260 \Umathopeninnerspacing\scriptscriptstyle\IS@skip
- 261 \IS@skip\Umathopenordspacing\crampeddisplaystyle
- 262 \Umathopeninnerspacing\crampeddisplaystyle\IS@skip
- 263 \IS@skip\Umathopenordspacing\crampedtextstyle
- 264 \Umathopeninnerspacing\crampedtextstyle\IS@skip
- 265 \IS@skip\Umathopenordspacing\crampedscriptstyle
- 266 \Umathopeninnerspacing\crampedscriptstyle\IS@skip
- 267 \IS@skip\Umathopenordspacing\crampedscriptscriptstyle
- 268 \Umathopeninnerspacing\crampedscriptscriptstyle\IS@skip
- 269 \IS@skip\Umathcloseordspacing\displaystyle
- 270 \Umathcloseinnerspacing\displaystyle\IS@skip
- 271 \IS@skip\Umathcloseordspacing\textstyle
- 272 \Umathcloseinnerspacing\textstyle\IS@skip
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- \Umathinnerinnerspacing\crampedscriptscriptstyle\IS@skip 428

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Version History

1.0	February 2021
—initial release	
1.1	Fegruary 2021
—bug fix for \mathinner s	pacing
—added \IS@skip muglue :	register