

FdSymbol: A Math Symbol Font

Michael Ummels
michael.ummels@rwth-aachen.de

v0.7 – 2011/08/28

Contents

1 Introduction

FdSymbol is a font of mathematical symbols designed as a companion to Typotheque's Fedra family¹, but it might also fit well to other contemporary typefaces. To use this font in a L^AT_EX document, add the command

```
\usepackage[options]{fdsymbol}
```

to the preamble of your document. This redefines most of the standard mathematical symbols and makes available many new ones (see Section 4). For the available options see Section 3.

Acknowledgements

The FdSymbol font is derived from MnSymbol², another math symbol font, designed by Achim Blumensath.

2 Interferences with other packages

The fdsymbol package is incompatible with the amssymb and amsfonts packages. It automatically loads the amsmath and textcomp packages. If you want to pass options to these packages, you can either load these packages before fdsymbol or you can include the options in the \documentclass command.

¹<http://www.typotheque.com/fonts>

²<http://www.ctan.org/pkg/mnsymbol/>

3 Font selection

FdSymbol comes in four weights, which are (in increasing order) Book, Regular, Medium and Bold. Of these, Book and Regular are suitable for normal math typesetting, while Medium and Bold can be used for bold math typesetting. Using the options `normalweight` and `boldweight`, you can select which weights are used. For example, to use the Medium weight as the normal weight in math, add `normalweight=Medium` to the package options. Analogously, to use the Bold weight with `\boldmath` or `\boldsymbol`, add `boldweight=Bold` to the package options. By default, Book and Medium are used. Additionally, it is possible to use a suitable weight automatically depending on the font size by selecting `auto`. For example, if you use the option `normalweight=auto`, the Book weight will be used for normal and large sizes, but the Regular weight will be used for small sizes (e.g. in sub- and superscripts).

In order to use FdSymbol with different text fonts, it is possible to scale the fonts by an arbitrary factor. This can be achieved with the option `scale`. For example, to use the fonts at 90 % of their original size, you can add `scale=0.9` to the package options. Finally, it is possible to increase the height of delimiters slightly (by 20 % in text size and by 25 % in `\big` size). This can be achieved by activating the option `largedelims`. Use this option if you want to combine FdSymbol with a text font that has rather tall delimiters, such as Fedra Serif B. In fact, the height of normal delimiters will match the height of text delimiters in Fedra Serif B if you select this option.

The following table summarises all options (keys) that can be used with the `fdsymbol` package. Values that correspond to the default behaviour of the package are marked by an asterisk.

Key	Values
<code>normalweight</code>	Book*, Regular, auto
<code>boldweight</code>	Medium*, Bold, auto
<code>scale</code>	$\langle factor \rangle$
<code>largedelims</code>	true, false*

4 Symbols

The `fdsymbol` package provides the following symbols.

4.1 Ordinary symbols

...	\hdots	▷	\revmeasuredangle,
:	\vdots		\measuredangleleft
⋯	\udots,\adots	◄	\sphericalangle
⋮	\ddots	▽	\sphericalangleup
∴	\righttherefore	▷	\sphericalangleleft,
∵	\uptherefore,\therefore		\revsphericalangle,\gtlpar
∴	\lefttherefore	⋈	\sphericalangledown
∵	\downtherefore,\because	┐	\rightangle
∴	\squaredots	┐	\measuredrightangle
¬	\neg,\lnot	┐	\rightanglesquare,
⊖	\backneg,\invnot,\invneg		\rightanglesqr
⊖	\turnedneg,\turnednot	┐	\measuredrightangledot,
⊖	\turnedbackneg		\rightanglemdot
△	\largetriangleup	/	\prime
▽	\largetriangleup	\	\backprime
∅	\emptyset,\diameter,	✓	\checkmark
	\varnothing	⚡	\lightning,\downzigzagarrow
∅	\reemptyset	◇	\diamondsuit
○	\largecircle,\lgwhtcircle	◆	\vardiamondsuit
●	\largeblackcircle	♥	\heartsuit
□	\largesquare,\lgwhtsquare	♥	\varheartsuit
■	\largeblacksquare,	♠	\spadesuit
	\lgblksquare	♣	\clubsuit
◇	\smalllozenge,\smwhtlozenge	♣	\maltese
◆	\smallblacklozenge,	☆	\starofdavid
	\smbkllozenge	▽	\sector
◇	\medlozenge,\lozenge,	▽	\forall
	\mdlwhtlozenge,	∃	\exists
	\mdwhtlozenge	∄	\nexists
◆	\medblacklozenge,	⊢	\Finv
	\blacklozenge,	⊖	\Game
	\mdlgbkllozenge,	⊖	\complement
	\mdblklozenge	♭	\flat
⊖	\lozengeminus	♮	\natural
☆	\largewhitestar	#	\sharp
★	\largeblackstar,\bigstar	ℵ	\aleph
∞	\infty	⊔	\beth
∠	\angle	λ	\gimel
∠	\revangle	⊔	\daleth
∠	\measuredangle	⌀	\wp
		⊔	\top

\perp	<code>\bot</code>	$ $	<code> , \vert</code>
$/$	<code>/, \mathslash</code>	\parallel	<code>\Vert</code>
\backslash	<code>\backslash</code>	\equiv	<code>\Vvert</code>

4.2 Binary operators

\cdot	<code>\cdot</code>	\leftarrow	<code>\leftarrow</code>
\centerdot	<code>\centerdot</code>	\Uparrow	<code>\Uparrow</code>
\hdotdot	<code>\hdotdot</code>	\wedge	<code>\wedge, \land</code>
\vdotdot	<code>\vdotdot</code>	\vee	<code>\vee, \lor</code>
\udotdot	<code>\udotdot</code>	$\dot{\wedge}$	<code>\wedgedot</code>
\ddotdot	<code>\ddotdot</code>	\veedot	<code>\veedot</code>
$-$	<code>-, \minus</code>	\doublewedge	<code>\doublewedge, \wedgeonwedge</code>
\medslash	<code>\medslash, \smalldivslash</code>	\doublevee	<code>\doublevee, \veeonwee</code>
\medbackslash	<code>\medbackslash, \smallsetminus</code>	\curlywedge	<code>\curlywedge</code>
$+$	<code>+, \plus</code>	\curlyvee	<code>\curlyvee</code>
\times	<code>\times</code>	$\bar{\wedge}$	<code>\barwedge</code>
$\dot{-}$	<code>\dotminus</code>	$\bar{\vee}$	<code>\veebar</code>
$\dot{-}$	<code>\minusdot</code>	\doublebarwedge	<code>\doublebarwedge</code>
\div	<code>\div</code>	$\underline{\vee}$	<code>\veedoublebar</code>
\div	<code>\minusfdots</code>	\cup	<code>\cup</code>
\div	<code>\minusrdots</code>	\cap	<code>\cap</code>
\pm	<code>\pm</code>	\cupcup	<code>\doublecup, \Cup</code>
\mp	<code>\mp</code>	\capcap	<code>\doublecap, \Cap</code>
$\dot{+}$	<code>\dotplus</code>	$\cup\dot{\cup}$	<code>\cupdot</code>
$\dot{+}$	<code>\plusdot</code>	$\cap\dot{\cap}$	<code>\capdot</code>
$\dot{\times}$	<code>\dottimes</code>	\cupplus	<code>\cupplus, \uplus</code>
\timesbar	<code>\timesbar</code>	\capplus	<code>\capplus</code>
\divideontimes	<code>\divideontimes</code>	\sqcup	<code>\sqcup</code>
\intprod	<code>\intprod</code>	\sqcap	<code>\sqcap</code>
\intprodr	<code>\intprodr</code>	$\double\sqcup$	<code>\doublesqcup, \Sqcup</code>
\leftthreetimes	<code>\leftthreetimes</code>	$\double\sqcap$	<code>\doublesqcap, \Sqcap</code>
\rightthreetimes	<code>\rightthreetimes</code>	$\sqcup\dot{\cup}$	<code>\sqcupdot</code>
$\dot{\times}$	<code>\dtimes, \btimes</code>	$\sqcap\dot{\cap}$	<code>\sqcapdot</code>
\rtimes	<code>\rtimes</code>	\sqcupplus	<code>\sqcupplus</code>
\utimes	<code>\utimes, \ttimes</code>	\sqcapplus	<code>\sqcapplus</code>
\ltimes	<code>\ltimes</code>	\lrcorner	<code>\pullback</code>
\lrtimes	<code>\lrtimes</code>	\rhd	<code>\pushout</code>
\upbowtie	<code>\upbowtie, \hourglass</code>	\triangleright	<code>\smalltriangleright</code>
\triangleright	<code>\rightY</code>	\triangleup	<code>\smalltriangleup</code>
\upY	<code>\upY</code>	\triangleleft	<code>\smalltriangleleft</code>

▽ \smalltriangledown	⊖ \oequal, \circledequal
▶ \smallblacktriangleright	○ \bigcirc
▲ \smallblacktriangleup	◻ \smallsquare, \smwhtsquare
◀ \smallblacktriangleleft	■ \smallblacksquare, \smbklsquare
▼ \smallblacktriangledown	◻ \medsquare, \square, \Box, \mdlgwhtsquare, \mdwhtsquare
▷ \medtriangleright, \triangleright	■ \medblacksquare, \mdlgblklsquare, \mdblklsquare
△ \medtriangleup, \triangle, \vartriangle	⊖ \boxminus
◁ \medtriangleleft, \triangleleft	▤ \boxvert, \boxbar
▽ \medtriangledown, \triangledown	⊗ \boxslash, \boxdiag
▶ \medblacktriangleright, \blacktriangleright	⊗ \boxbackslash, \boxbslash
▲ \medblacktriangleup, \blacktriangle	⊕ \boxplus
◀ \medblacktriangleleft, \blacktriangleleft	⊗ \boxtimes
▼ \medblacktriangledown, \blacktriangledown	◻ \boxdot
△ \bigtriangleup	▣ \boxbox
▽ \bigtriangledown	◇ \smalldiamond, \diamond, \smwhtdiamond
◦ \smallcircle, \circ, \smwhtcircle	◆ \smallblackdiamond, \blackdiamond, \smbkldiamond
• \smallblackcircle, \bullet, \smbkcircle	◇ \meddiamond, \Diamond, \mdlgwhtdiamond, \mdwhtdiamond
○ \medcircle, \mdlgwhtcircle, \mdwhtcircle	◆ \medblackdiamond, \mdlgblkdiamond, \mdblkdiamond
● \medblackcircle, \mdlgblkcircle, \mdblkcircle	⊖ \diamondminus
⊖ \ominus	⬆ \diamondvert
⬆ \overline{\circ}, \circledvert	⬆ \diamondslash
⊗ \oslash	⬆ \diamondbackslash, \diamondbslash
⊗ \obackslash, \obslash	⬆ \diamondplus
⊕ \oplus	⬆ \diamondtimes
⊗ \otimes	⬆ \diamondddot, \diamonddcdot
⊙ \odot	⬆ \diamondddiamond
⊙ \ocirc, \circledcirc	☆ \smallwhitestar, \smwhitestar
⊗ \oast, \circledast	★ \smallblackstar, \star
⊖ \odash, \circleddash	☆ \medwhitestar
	★ \medblackstar, \medstar
	* *, \ast

\top	<code>\intercal</code>	\triangleleft	<code>\unlhd</code>
\wr	<code>\wreath, \wr</code>	\triangleright	<code>\unrhd</code>
\amalg	<code>\amalg</code>	$/$	<code>\divslash</code>
\triangleleft	<code>\lhd</code>	\backslash	<code>\setminus</code>
\triangleright	<code>\rhd</code>		

4.3 Relations

$=$	<code>=, \equal, \Relbar</code>	$\stackrel{*}{=}$	<code>\stareq</code>
\equiv	<code>\equiv</code>	\triangleq	<code>\triangleeq, \trianglelefteq</code>
\sim	<code>\sim</code>	\in	<code>\in</code>
\backsimeq	<code>\backsimeq</code>	\ni	<code>\owns, \ni</code>
\approx	<code>\approx</code>	$<$	<code><, \less</code>
$\approx\!\!\approx$	<code>\triplesim, \approxident</code>	$>$	<code>>, \gtr</code>
\simeq	<code>\simeq</code>	\leq	<code>\leq, \le</code>
\backsimeq	<code>\backsimeq</code>	\geq	<code>\geq, \ge</code>
\eqsim	<code>\eqsim</code>	\leqslant	<code>\leqslant</code>
\cong	<code>\cong</code>	\geqslant	<code>\geqslant</code>
\backcong	<code>\backcong</code>	\leqq	<code>\leqq</code>
\dotcong	<code>\dotcong</code>	\geqq	<code>\geqq</code>
\approxeq	<code>\approxeq</code>	\lesssim	<code>\lesssim</code>
\bumpeq	<code>\bumpeq</code>	\gtrsim	<code>\gtrsim</code>
\Bumpeq	<code>\Bumpeq</code>	\lessapprox	<code>\lessapprox</code>
\doteq	<code>\doteq</code>	\gtrapprox	<code>\gtrapprox</code>
\eqdot	<code>\eqdot</code>	\lessgtr	<code>\lessgtr</code>
\Doteq	<code>\Doteq</code>	\gtrless	<code>\gtrless</code>
\fallingdotseq	<code>\fallingdotseq</code>	\lesseqgtr	<code>\lesseqgtr</code>
\risingdotseq	<code>\risingdotseq</code>	\gtreqless	<code>\gtreqless</code>
\coloneq	<code>\coloneq, \coloneqq</code>	\lesseqqgtr	<code>\lesseqqgtr</code>
\eqcolon	<code>\eqcolon, \eqqcolon</code>	\gtreqqless	<code>\gtreqqless</code>
\smile	<code>\smile, \smallsmile</code>	\lesseqslantgtr	<code>\lesseqslantgtr, \lesq</code>
\frown	<code>\frown, \smallfrown</code>	\gtreqslantless	<code>\gtreqslantless, \gesl</code>
\smilefrown	<code>\smilefrown, \asympt</code>	\ll	<code>\ll</code>
\frownsmile	<code>\frownsmile, \closure</code>	\gg	<code>\gg</code>
\smileeq	<code>\smileeq</code>	\lll	<code>\lll, \llless</code>
\frowneq	<code>\frowneq, \arceq</code>	\ggg	<code>\ggg, \gggtr</code>
\eqcirc	<code>\eqcirc</code>	\triangleleft	<code>\lessclosed, \vartriangleleft</code>
\circeq	<code>\circeq</code>	\triangleright	<code>\gtrclosed, \vartriangleright</code>
\wedgeeq	<code>\wedgeeq, \hateq</code>	\trianglelefteq	<code>\leqclosed, \trianglelefteq</code>
\veeq	<code>\veeq</code>	\trianglerighteq	<code>\geqclosed, \trianglerighteq</code>
		\trianglecc	<code>\lesscc, \ltcc</code>

\triangleright	<code>\gtrcc, \gtcc</code>	\sim	<code>\thicksim</code>
\leqslant	<code>\leqslcc, \lescc</code>	\approx	<code>\thickapprox</code>
\geqslant	<code>\geqslcc, \gescc</code>	\rightarrow	<code>\rightarrow, \to</code>
\sqsubset	<code>\sqsubset</code>	\uparrow	<code>\uparrow</code>
\sqsupset	<code>\sqsupset</code>	\leftarrow	<code>\leftarrow, \gets</code>
\sqsubseteq	<code>\sqsubseteq</code>	\downarrow	<code>\downarrow</code>
\sqsupseteq	<code>\sqsupseteq</code>	\nearrow	<code>\nearrow</code>
\sqsubseteq	<code>\sqsubseteq</code>	\nwarrow	<code>\nwarrow</code>
\sqsupseteqq	<code>\sqsupseteqq</code>	\swarrow	<code>\swarrow</code>
\sqsubseteqq	<code>\sqsubseteqq</code>	\searrow	<code>\searrow</code>
\sqsupseteqq	<code>\sqsupseteqq</code>	\Rightarrow	<code>\Rightarrow</code>
\subset	<code>\subset</code>	\Uparrow	<code>\Uparrow</code>
\supset	<code>\supset</code>	\Leftarrow	<code>\Leftarrow</code>
\subseteq	<code>\subseteq</code>	\Downarrow	<code>\Downarrow</code>
\supseteq	<code>\supseteq</code>	\nearrow	<code>\nearrow</code>
\subseteqq	<code>\subseteqq</code>	\nwarrow	<code>\nwarrow</code>
\supseteqq	<code>\supseteqq</code>	\swarrow	<code>\swarrow</code>
\Subset	<code>\Subset</code>	\searrow	<code>\searrow</code>
\Supset	<code>\Supset</code>	\leftrightarrow	<code>\leftrightarrow</code>
\prec	<code>\prec</code>	\updownarrow	<code>\updownarrow</code>
\succ	<code>\succ</code>	\nearrow	<code>\nearrow</code>
\preceq	<code>\preceq</code>	\nwarrow	<code>\nwarrow</code>
\succeq	<code>\succeq</code>	\Leftrightarrow	<code>\Leftrightarrow</code>
\preccurlyeq	<code>\preccurlyeq</code>	\Updownarrow	<code>\Updownarrow</code>
\succcurlyeq	<code>\succcurlyeq</code>	\nearrow	<code>\nearrow</code>
\preceqq	<code>\preceqq</code>	\nwarrow	<code>\nwarrow</code>
\succeqq	<code>\succeqq</code>	\twoheadrightarrow	<code>\twoheadrightarrow</code>
\precsim	<code>\precsim</code>	\twoheaduparrow	<code>\twoheaduparrow</code>
\succsim	<code>\succsim</code>	\twoheadleftarrow	<code>\twoheadleftarrow</code>
\precapprox	<code>\precapprox</code>	\twoheaddownarrow	<code>\twoheaddownarrow</code>
\succapprox	<code>\succapprox</code>	\nearrow	<code>\nearrow</code>
\lessdot	<code>\lessdot</code>	\nwarrow	<code>\nwarrow</code>
\gtrdot	<code>\gtrdot</code>	\swarrow	<code>\swarrow</code>
\leqdot	<code>\leqdot</code>	\searrow	<code>\searrow</code>
\geqdot	<code>\geqdot</code>	\rightarrowtail	<code>\rightarrowtail</code>
\leqslantdot, \lesdot	<code>\leqslantdot, \lesdot</code>	\uparrowtail	<code>\uparrowtail</code>
\geqslantdot, \gesdot	<code>\geqslantdot, \gesdot</code>	\leftarrowtail	<code>\leftarrowtail</code>
\leqslantless	<code>\leqslantless</code>	\downarrowtail	<code>\downarrowtail</code>
\leqslantgtr	<code>\leqslantgtr</code>	\nearrowtail	<code>\nearrowtail</code>
\curlyeqprec	<code>\curlyeqprec</code>	\nwarrowtail	<code>\nwarrowtail</code>
\curlyeqsucc	<code>\curlyeqsucc</code>	\swarrowtail	<code>\swarrowtail</code>

\searrow	<code>\searrowtail</code>	\leftrightarrow	<code>\leftrightharpoonupdown</code>
\mapsto	<code>\rightmapsto, \mapsto</code>	\updownharpoonleftright	<code>\updownharpoonleftright</code>
\upmapsto	<code>\upmapsto, \mapsto</code>	\nearrow	<code>\neswharpoonnwse</code>
\leftmapsto	<code>\leftmapsto, \mapsto</code>	\nwseharpoonnesw	<code>\nwseharpoonnesw</code>
\downmapsto	<code>\downmapsto, \mapsto</code>	\leftrightharpoonupdown	<code>\leftrightharpoonupdown</code>
\Rightarrow	<code>\Rightmapsto, \Mapsto</code>	\updownharpoonrightleft	<code>\updownharpoonrightleft</code>
\Uparrow	<code>\Upmapsto, \Mapsto</code>	\nearrow	<code>\neswharpoonsenw</code>
\Leftarrow	<code>\Leftmapsto, \Mapsfrom</code>	\nwseharpoonswne	<code>\nwseharpoonswne</code>
\Downarrow	<code>\Downmapsto, \Mapsdown</code>	\Rightarrow	<code>\rightleftharpoons</code>
\hookrightarrow	<code>\hookrightarrow</code>	\updownharpoons	<code>\updownharpoons,</code> <code>\updownharpoonsleftright</code>
\hookuparrow	<code>\hookuparrow</code>	\nearrow	<code>\neswharpoons</code>
\hookleftarrow	<code>\varhookleftarrow</code>	\nwseharpoons	<code>\nwseharpoons</code>
\hookdownarrow	<code>\varhookdownarrow</code>	\leftrightharpoons	<code>\leftrightharpoons</code>
\hooknearrow	<code>\varhooknearrow</code>	\updownharpoons	<code>\updownharpoons,</code> <code>\updownharpoonsleftright</code>
\hooknwarrow	<code>\hooknwarrow, \hknwarrow</code>	\nwseharpoons	<code>\nwseharpoons</code>
\hookswarrow	<code>\varhookswarrow</code>	\rightarrow	<code>\rightarrow, \dashrightarrow,</code> <code>\dashrightarrow</code>
\hooksearrow	<code>\hooksearrow, \hksearrow</code>	\uparrow	<code>\upbkarrow</code>
\hookrightarrow	<code>\varhookrightarrow</code>	\leftarrow	<code>\leftbkarrow, \dashleftarrow</code>
\hookuparrow	<code>\varhookuparrow</code>	\downarrow	<code>\downbkarrow</code>
\hookleftarrow	<code>\hookleftarrow</code>	\nearrow	<code>\nebkarrow</code>
\hookdownarrow	<code>\hookdownarrow</code>	\nwseharpoons	<code>\nwseharpoons</code>
\hooknearrow	<code>\hooknearrow, \hknearrow</code>	\rightarrow	<code>\rightarrow, \multimap</code>
\hooknwarrow	<code>\varhooknwarrow</code>	\uparrow	<code>\upspoon, \circmid</code>
\hookswarrow	<code>\hookswarrow, \hkswarrow</code>	\leftarrow	<code>\leftspoon, \multimapinv</code>
\hooksearrow	<code>\varhooksearrow</code>	\downarrow	<code>\downspoon, \midcir</code>
\rightarrow	<code>\rightarrowharpoonup</code>	\rightarrow	<code>\rightarrowblackspoon</code>
\upharpoonleft	<code>\upharpoonleft</code>	\uparrow	<code>\upblackspoon</code>
\leftharpoonupdown	<code>\leftharpoonupdown</code>	\leftarrow	<code>\leftblackspoon</code>
\downharpoonright	<code>\downharpoonright</code>	\downarrow	<code>\downblackspoon</code>
\nearrow	<code>\nearrowharpoonnw</code>	\leftrightspoon	<code>\leftrightspoon, \dualmap</code>
\nwseharpoonsw	<code>\nwseharpoonsw</code>	\leftrightblackspoon	<code>\leftrightblackspoon</code>
\swharpoonse	<code>\swharpoonse</code>	\blackwhitespoon	<code>\blackwhitespoon, \imageof</code>
\seharpoonne	<code>\seharpoonne</code>	\whiteblackspoon	<code>\whiteblackspoon, \origof</code>
\rightarrow	<code>\rightarrowharpoonupdown</code>	\rightarrow	<code>\rightarrowpitchfork</code>
$\upharpoonright, \restriction$	<code>\upharpoonright, \restriction</code>	\pitchfork	<code>\pitchfork, \pitchfork</code>
\leftharpoonup	<code>\leftharpoonup</code>		
\downharpoonleft	<code>\downharpoonleft</code>		
\nearrow	<code>\nearrowharpoonse</code>		
\nwseharpoonne	<code>\nwseharpoonne</code>		
\swharpoonnw	<code>\swharpoonnw</code>		
\seharpoonsw	<code>\seharpoonsw</code>		


























































\leftharpoonup	<code>\leftpitchfork</code>	\curvearrowright	<code>\cwnwarcarrow,</code> <code>\rightupcurvedarrow</code>
\pitchfork	<code>\downpitchfork</code>	\curvearrowleft	<code>\cswwarcarrow,</code> <code>\upleftcurvedarrow</code>
\Rightarrow	<code>\rightrightarrows</code>	\curvearrowright	<code>\cwsearcarrow,</code> <code>\leftdowncurvedarrow</code>
\Uparrow	<code>\upuparrows</code>	\curvearrowleft	<code>\cwnearcarrow,</code> <code>\downrightcurvedarrow</code>
\Leftrightarrow	<code>\leftleftarrows</code>	\curvearrowright	<code>\acwunderarcarrow</code>
\Downarrow	<code>\downdownarrows</code>	\curvearrowright	<code>\acwrightarcarrow</code>
\nearrow	<code>\nenearrows</code>	\curvearrowleft	<code>\acwoverarcarrow,</code> <code>\curvearrowleft</code>
\nwarrow	<code>\nwnwarrows</code>	\curvearrowleft	<code>\acwleftarcarrow</code>
\swarrow	<code>\swswarrows</code>	\curvearrowright	<code>\acwsearcarrow,</code> <code>\uprightcurvearrow</code>
\searrow	<code>\sesearrows</code>	\curvearrowleft	<code>\acwnearcarrow,</code> <code>\leftupcurvedarrow</code>
\rightleftarrows	<code>\rightleftarrows</code>	\curvearrowright	<code>\acwnwarcarrow,</code> <code>\downleftcurvedarrow</code>
\Updownarrow	<code>\updownarrows</code>	\curvearrowleft	<code>\acwswarcarrow,</code> <code>\rightdowncurvedarrow</code>
\Rrightarrow	<code>\neswarrows</code>	\curvearrowright	<code>\bdoverarcarrow</code>
\Rrightarrow	<code>\nwsearrows</code>	\curvearrowleft	<code>\bdleftarcarrow</code>
\Lrightarrow	<code>\leftrightarrows</code>	\curvearrowright	<code>\bdunderarcarrow</code>
\Downuparrow	<code>\downuparrows</code>	\curvearrowright	<code>\bdrightarcarrow</code>
\nearrow	<code>\swnearrows</code>	\curvearrowright	<code>\bdnwarcarrow</code>
\searrow	<code>\senwarrows</code>	\curvearrowleft	<code>\bdswarcarrow</code>
\rightsquigarrow	<code>\rightwvearrow,\leadsto,</code> <code>\rightsquigarrow,</code> <code>\rightcurvedarrow</code>	\curvearrowright	<code>\bdsearcarrow</code>
\varupwvearrow	<code>\varupwvearrow</code>	\curvearrowleft	<code>\bdnearcarrow</code>
\varleftwvearrow	<code>\varleftwvearrow</code>	\dashleftarrow	<code>\leftfootline</code>
\downwvearrow	<code>\downwvearrow</code>	\dashrightarrow	<code>\rightfootline</code>
\varrightwvearrow	<code>\varrightwvearrow</code>	\circlearrowup	<code>\acwcirculararrowup</code>
\upwvearrow	<code>\upwvearrow</code>	\circlearrowleft	<code>\acwcirculararrowleft,</code> <code>\circlearrowleft,</code> <code>\acwopencirculararrow</code>
$\leftwvearrow,$ $\leftsquigarrow,$ \leftcurvedarrow	<code>\leftwvearrow,</code> <code>\leftsquigarrow,</code> <code>\leftcurvedarrow</code>	\circlearrowdown	<code>\acwcirculararrowdown,</code> <code>\acwgapcirculararrow</code>
\vardownwvearrow	<code>\vardownwvearrow</code>	\circlearrowright	<code>\acwcirculararrowright</code>
$\leftrightwvearrow,$ \leftrightsquigarrow	<code>\leftrightwvearrow,</code> <code>\leftrightsquigarrow</code>	\circlearrowdown	<code>\acwcirculararrowdown,</code> <code>\cwgapcirculararrow</code>
\updownwvearrow	<code>\updownwvearrow</code>		
\varleftrightwvearrow	<code>\varleftrightwvearrow</code>		
\varupdownwvearrow	<code>\varupdownwvearrow</code>		
$\cwoverarcarrow,$ \curvearrowright	<code>\cwoverarcarrow,</code> <code>\curvearrowright</code>		
\cleftarcarrow	<code>\cleftarcarrow</code>		
\cunderarcarrow	<code>\cunderarcarrow</code>		
\cwrightarcarrow	<code>\cwrightarcarrow</code>		

	<code>\cwcirculararrowright,</code>	\models	<code>\rightvDash, \vDash</code>
	<code>\circlearrowright,</code>	\Uparrow	<code>\upvDash, \Vbar</code>
	<code>\cwopencirculararrow</code>	\Rightarrow	<code>\leftvDash, \Dashv</code>
	<code>\cwcirculararrowup</code>	\Downarrow	<code>\downvDash, \barV</code>
	<code>\cwcirculararrowleft</code>	\models	<code>\rightmodels, \models</code>
\Rightarrow	<code>\Rightarrow</code>	\Uparrow	<code>\upmodels</code>
\Uparrow	<code>\Uparrow</code>	\models	<code>\leftmodels</code>
\Leftarrow	<code>\Lleftarrow</code>	\Downarrow	<code>\downmodels</code>
\Downarrow	<code>\Ddownarrow</code>	\Vdash	<code>\rightVdash, \Vdash</code>
\rightarrow	<code>\longrightarrow</code>	\perp	<code>\upVdash</code>
\leftarrow	<code>\longleftarrow</code>	\dashv	<code>\leftVdash, \dashV</code>
\Rightarrow	<code>\Longrightarrow</code>	\top	<code>\downVdash</code>
\Leftarrow	<code>\Longleftarrow</code>	\Vdash	<code>\rightAssert, \Assert</code>
\longleftrightarrow	<code>\longleftrightharpoonup</code>	\perp	<code>\upAssert, \Vbar</code>
\Leftrightarrow	<code>\Longleftrightharpoonup</code>	\dashv	<code>\leftAssert</code>
\mapsto	<code>\longmapsto</code>	\top	<code>\downAssert, \Barv</code>
\longleftarrow	<code>\longmapsfrom</code>	\Vdash	<code>\rightVDash, \VDash</code>
\Rightarrow	<code>\Longmapsto</code>	\Uparrow	<code>\upVDash</code>
\Leftarrow	<code>\Longmapsfrom</code>	\Rightarrow	<code>\leftVDash, \DashV</code>
\rightsquigarrow	<code>\longrightwavyarrow,</code>	\top	<code>\downVDash</code>
	<code>\longleadsto,</code>	\Vdash	<code>\Vdash</code>
	<code>\longrightsquigarrow</code>	\dashv	<code>\dashVv</code>
\leftarrow	<code>\longleftwavyarrow,</code>	\Vdash	<code>\VDash</code>
	<code>\longleftsquigarrow</code>	\Rightarrow	<code>\Ddashv</code>
\longleftarrow	<code>\longleftfootline, \vlongdash</code>	\neq	<code>\nequal, \neq, \ne</code>
\rightarrow	<code>\longrightfootline, \longdashv</code>	\neq	<code>\nequiv</code>
\Lsh	<code>\Lsh</code>	\sim	<code>\nsim</code>
\Rsh	<code>\Rsh</code>	\nbacksim	<code>\nbacksim</code>
\Ldsh	<code>\Ldsh</code>	\approx	<code>\approx</code>
\Rdsh	<code>\Rdsh</code>	\tripleapprox	<code>\ntriplesim, \napproxident</code>
\looparrowright	<code>\looparrowright</code>	\simeq	<code>\nsimeq, \nsime</code>
\looparrowleft	<code>\looparrowleft</code>	\nbacksimeq	<code>\nbacksimeq</code>
\vdash	<code>\rightvdash, \vdash</code>	\neqsim	<code>\neqsim</code>
\perp	<code>\upvdash, \perp</code>	\cong	<code>\cong</code>
\dashv	<code>\leftvdash, \dashv</code>	\ncong	<code>\nbackcong</code>
\top	<code>\downvdash</code>	\approx	<code>\approx</code>
\Vdash	<code>\rightassert, \assert,</code>	\bumpeq	<code>\nbumpeq</code>
	<code>\shorttrighttack</code>	\bumpeq	<code>\nbumpeq</code>
\perp	<code>\upassert, \shortuptack</code>	\bumpeq	<code>\nBumpeq</code>
\dashv	<code>\leftassert, \shortlefttack</code>	\doteq	<code>\ndoteq</code>
\top	<code>\downassert, \shortdowntack</code>	\neqdot	<code>\neqdot</code>

\nDoteq	$\nlessclosed, \ntriangleleft$
\nfallingdotseq	$\ngtrclosed, \ntriangleright$
\nrisingdotseq	$\nleqclosed, \ntrianglelefteq$
\nsmile	$\ngeqclosed, \ntrianglerighteq$
\nfrown	\nlesscc, \nltcc
\nsmilefrown, \nasym	\ngtrcc, \ngtcc
\nfrownsmile, \nclosure	\nleqslcc, \nlescc
\nsmileeq	\ngeqslcc, \ngesc
\nfrowneq, \narceq	\nsqsubset
\neqcirc	\nsqsupset
\ncirceq	\nsqsubseteq
\nwedgeq, \nhateq	\nsqsupseteq
\nvveeq	\nsqsubseteqq
\nstareq	\nsqsupseteqq
\ntriangleleeq	\nSsqsubset
\nin, \notin	\nSsqsupset
\nowns, \nni	\nsubset
\nless	\nsupset
\ngtr	\nsubseteq
\nleq	\nsupseteq
\ngeq	\nsubseteqq
\nleqslant	\nsupseteqq
\ngeqslant	\nSubset
\nleqq	\nSupset
\ngeqq	\nprec
\nlesssim	\nsucc
\ngtrsim	\npreceq
\nlessapprox	\nsucceq
\ngtrapprox	\npreccurlyeq
\nlessgtr	\nsucccurlyeq
\ngtrless	\npreceqq
\nlesseqgtr	\nsucceqq
\ngtreqlless	\nprecsim
\nlesseqqgtr	\nsuccsim
\ngtreqqless	\nprecapprox
\nlesseqslantgtr, \nlesg	\nsuccapprox
\ngtreqslantless, \ngesl	\nlessdot
\nll	\ngtrdot
\ngg	\nleqdot
\nlll	\ngeqdot
\nggg	\nleqslantdot, \nlesdot

\ncong	<code>\ngeqslantdot, \ngesdot</code>	\nleftarrow	<code>\nLeftarrow</code>
\nlessdot	<code>\neqslantless</code>	\nrightarrow	<code>\nDownarrow</code>
\nlessgtr	<code>\neqslantgtr</code>	\nrightarrow	<code>\nNearrow</code>
\nprec	<code>\ncurlyeqprec</code>	\nrightarrow	<code>\nNwarrow</code>
\nprec	<code>\ncurlyeqsucc</code>	\nrightarrow	<code>\nSwarrow</code>
\sim	<code>\simneqq</code>	\nrightarrow	<code>\nSearrow</code>
\sim	<code>\backsimneqq</code>	\leftrightarrow	<code>\nleftrightarrow</code>
\neq	<code>\lneq</code>	\updownarrow	<code>\nupdownarrow</code>
\neq	<code>\gneq</code>	\nearrow	<code>\nneswarrow</code>
\neq	<code>\lneqq, \lvertneqq</code>	\nwarrow	<code>\nnwsearrow</code>
\neq	<code>\gneqq, \gvertneqq</code>	\leftrightarrow	<code>\nLefttrightarrow</code>
\sim	<code>\lnsim</code>	\updownarrow	<code>\nUpdownarrow</code>
\sim	<code>\gnsim</code>	\nearrow	<code>\nNeswarrow</code>
\approx	<code>\lnapprox</code>	\nwarrow	<code>\nNwsearrow</code>
\approx	<code>\gnapprox</code>	\twoheadrightarrow	<code>\ntwoheadrightarrow</code>
\sqsubset	<code>\sqsubsetneq</code>	\twoheadrightarrow	<code>\ntwoheaduparrow</code>
\sqsupset	<code>\sqsupsetneq</code>	\twoheadrightarrow	<code>\ntwoheadleftarrow</code>
\sqsubset	<code>\sqsubsetneqq</code>	\twoheadrightarrow	<code>\ntwoheaddownarrow</code>
\sqsupset	<code>\sqsupsetneqq</code>	\twoheadrightarrow	<code>\ntwoheadnearrow</code>
\subset	<code>\subsetneq, \varsubsetneq</code>	\twoheadrightarrow	<code>\ntwoheadnwarrow</code>
\supset	<code>\supsetneq, \varsupsetneq</code>	\twoheadrightarrow	<code>\ntwoheadswarrow</code>
\subset	<code>\subsetneqq, \varsubsetneqq</code>	\twoheadrightarrow	<code>\ntwoheadsearrow</code>
\supset	<code>\supsetneqq, \varsupsetneqq</code>	\rightarrowtail	<code>\nrightarrowtail</code>
\prec	<code>\precneq</code>	\uparrowtail	<code>\nuparrowtail</code>
\succ	<code>\succneq</code>	\leftarrowtail	<code>\nleftarrowtail</code>
\prec	<code>\precneqq</code>	\downarrowtail	<code>\ndownarrowtail</code>
\succ	<code>\succneqq</code>	\nearrowtail	<code>\nnearrowtail</code>
\prec	<code>\precnsim</code>	\nwarrowtail	<code>\nnwarrowtail</code>
\succ	<code>\succnsim</code>	\searrowtail	<code>\nswarrowtail</code>
\approx	<code>\precnapprox</code>	\searrowtail	<code>\nsearrowtail</code>
\approx	<code>\succnapprox</code>	\mapsto	<code>\nrightarrowtail</code>
\rightarrow	<code>\rightarrow, \rightarrowtail</code>	\upmapsto	<code>\nupmapsto, \nmapsto</code>
\uparrow	<code>\uparrow</code>	\leftmapsto	<code>\nleftmapsto, \nmapsfrom</code>
\leftrightarrow	<code>\leftrightarrow, \nleftrightarrow</code>	\downmapsto	<code>\ndownmapsto, \nmapsdown</code>
\downarrow	<code>\downarrow</code>	\rightarrowtail	<code>\nrightarrowtail, \nmapsto</code>
\nearrow	<code>\nearrow</code>	\upmapsto	<code>\nUpmapsto, \nMapsto</code>
\nwarrow	<code>\nwarrow</code>	\leftmapsto	<code>\nLeftmapsto, \nMapsfrom</code>
\searrow	<code>\searrow</code>	\downmapsto	<code>\nDownmapsto, \nMapsdown</code>
\searrow	<code>\searrow</code>	\hookrightarrow	<code>\nhookrightarrow</code>
\rightarrowtail	<code>\rightarrowtail</code>	\hookrightarrow	<code>\nhookuparrow</code>
\uparrowtail	<code>\uparrowtail</code>	\hookrightarrow	<code>\nvarhookleftarrow</code>

\downdownarrows	<code>\nvarhookdownarrow</code>	\nrightarrow	<code>\nneswharpoons</code>
\nearrow	<code>\nvarhooknearrow</code>	\nleftrightarrow	<code>\nsenwharpoons</code>
\hookrightarrow	<code>\nhooknwarrow, \nhknwarrow</code>	\nleftrightarrow	<code>\nlefttrightharpoons</code>
\nwarrow	<code>\nvarhookswarrow</code>	\nleftrightarrow	<code>\ndownupharpoons,</code> <code>\ndownupharpoonsleftright</code>
\searrow	<code>\nhooksearrow, \nhksearrow</code>	\nleftrightarrow	<code>\nswneharpoons</code>
\rightarrow	<code>\nvarhookrightarrow</code>	\nleftrightarrow	<code>\nnwseharpoons</code>
\uparrow	<code>\nvarhookuparrow</code>	\nleftrightarrow	<code>\nrightbkarrow, \ndasharrow,</code> <code>\ndashrightarrow</code>
\hookleftarrow	<code>\nhookleftarrow</code>	\nleftrightarrow	<code>\nupbkarrow</code>
\downarrow	<code>\nhookdownarrow</code>	\nleftrightarrow	<code>\nleftbkarrow, \ndashleftarrow</code>
\nearrow	<code>\nhooknearrow, \nhknearrow</code>	\nleftrightarrow	<code>\ndownbkarrow</code>
\nwarrow	<code>\nvarhooknwarrow</code>	\nleftrightarrow	<code>\nnebkarrow</code>
\searrow	<code>\nhookswarrow, \nhkswarrow</code>	\nleftrightarrow	<code>\nnwbkarrow</code>
\searrow	<code>\nvarhooksearrow</code>	\nleftrightarrow	<code>\nswbkarrow</code>
\rightarrow	<code>\nrightharpoonup</code>	\nleftrightarrow	<code>\nsebkarrow</code>
\leftarrow	<code>\nupharpoonleft</code>	\nleftrightarrow	<code>\nrightharpoon, \nmultimap</code>
\rightarrow	<code>\nleftharpoondown</code>	\nleftrightarrow	<code>\nupspoon, \ncirmid</code>
\rightarrow	<code>\ndownharpoonright</code>	\nleftrightarrow	<code>\nleftspoon, \nmultimapinv</code>
\nearrow	<code>\nneharpoonnw</code>	\nleftrightarrow	<code>\ndownspoon, \nmidcir</code>
\nwarrow	<code>\nnwharpoonsw</code>	\nleftrightarrow	<code>\nrightblackspoon</code>
\nwarrow	<code>\nswharpoonse</code>	\nleftrightarrow	<code>\nupblackspoon</code>
\nwarrow	<code>\nseharpoonne</code>	\nleftrightarrow	<code>\nleftblackspoon</code>
\rightarrow	<code>\nrightharpoondown</code>	\nleftrightarrow	<code>\ndownblackspoon</code>
\rightarrow	<code>\nupharpoonright,</code> <code>\nrestriction</code>	\nleftrightarrow	<code>\nleftrightspoon, \ndualmap</code>
\rightarrow	<code>\nleftharpoonup</code>	\nleftrightarrow	<code>\nleftrightblackspoon</code>
\rightarrow	<code>\ndownharpoonleft</code>	\nleftrightarrow	<code>\nblackwhitespoon, \nimageof</code>
\nearrow	<code>\nneharpoonse</code>	\nleftrightarrow	<code>\nwhiteblackspoon, \norigof</code>
\nwarrow	<code>\nnwharpoonne</code>	\nleftrightarrow	<code>\nrightpitchfork</code>
\nwarrow	<code>\nswharpoonnw</code>	\nleftrightarrow	<code>\nuppitchfork, \npitchfork</code>
\nwarrow	<code>\nseharpoonsw</code>	\nleftrightarrow	<code>\nleftpitchfork</code>
\rightarrow	<code>\nlefttrightharpoonupdown</code>	\nleftrightarrow	<code>\ndownpitchfork</code>
\rightarrow	<code>\nupdownharpoonleftright</code>	\nleftrightarrow	<code>\nrightrightarrows</code>
\nearrow	<code>\nneswharpoonnwse</code>	\nleftrightarrow	<code>\nupuparrows</code>
\nwarrow	<code>\nnwseharpoonnesw</code>	\nleftrightarrow	<code>\nleftleftarrows</code>
\rightarrow	<code>\nlefttrightharpoondownup</code>	\nleftrightarrow	<code>\ndowndownarrows</code>
\rightarrow	<code>\nupdownharpoonrightleft</code>	\nleftrightarrow	<code>\nnenearrows</code>
\nearrow	<code>\nneswharpoonsenw</code>	\nleftrightarrow	<code>\nnwnwarrows</code>
\nwarrow	<code>\nnwseharpoonswne</code>	\nleftrightarrow	<code>\nswswarrows</code>
\nleftrightarrow	<code>\nrightleftharpoons</code>	\nleftrightarrow	<code>\nsesearrows</code>
\nleftrightarrow	<code>\nupdownharpoons,</code> <code>\nupdownharpoonsleftright</code>	\nleftrightarrow	<code>\nrightleftarrows</code>

	<code>\nupdownarrows</code>		<code>\nacwleftarcarrow</code>
	<code>\nneswarrows</code>		<code>\nacwsearcarrow,</code>
	<code>\nnwsearrows</code>		<code>\nuprightcurvedarrow</code>
	<code>\nleftrighatarrows</code>		<code>\nacwnearcarrow,</code>
	<code>\ndownuparrows</code>		<code>\nleftupcurvedarrow</code>
	<code>\nswnearrows</code>		<code>\nacwnwarcarrow,</code>
	<code>\nsenwarrows</code>		<code>\ndownleftcurvedarrow</code>
	<code>\nrighthwavearrow,\nleadsto,</code>		<code>\nacwswarcarrow,</code>
	<code>\nrightrightsquigarrow,</code>		<code>\nrightrightcurvedarrow</code>
	<code>\nrightrightcurvedarrow</code>		<code>\nbdoverarcarrow</code>
	<code>\nvarupwvearrow</code>		<code>\nbdleftarcarrow</code>
	<code>\nvarleftwvearrow</code>		<code>\nbdunderarcarrow</code>
	<code>\ndownwvearrow</code>		<code>\nbdrightarcarrow</code>
	<code>\nvarrightwvearrow</code>		<code>\nbdnwarcarrow</code>
	<code>\nupwvearrow</code>		<code>\nbdswarcarrow</code>
	<code>\nleftwvearrow,</code>		<code>\nbdsearcarrow</code>
	<code>\nleftsquigarrow,</code>		<code>\nbdnearcarrow</code>
	<code>\nleftcurvedarrow</code>		<code>\nleftfootline</code>
	<code>\nvardownwvearrow</code>		<code>\nrightrightfootline</code>
	<code>\nleftrighthwavearrow,</code>		<code>\nacwcirclearrowup</code>
	<code>\nleftrightrightsquigarrow</code>		<code>\nacwcirclearrowleft,</code>
	<code>\nupdownwvearrow</code>		<code>\ncirclearrowleft,</code>
	<code>\nvarleftrighthwavearrow</code>		<code>\nacwopencirclearrow</code>
	<code>\nvarupdownwvearrow</code>		<code>\nacwcirclearrowdown,</code>
	<code>\ncwoverarcarrow,</code>		<code>\nacwgapcirclearrow</code>
	<code>\ncurvearrowright</code>		<code>\nacwcirclearrowright</code>
	<code>\ncwleftarcarrow</code>		<code>\ncwcirclearrowdown,</code>
	<code>\ncwunderarcarrow</code>		<code>\ncwgapcirclearrow</code>
	<code>\ncwrightarcarrow</code>		<code>\ncwcirclearrowright,</code>
	<code>\ncwnwarcarrow,</code>		<code>\ncirclearrowright,</code>
	<code>\nrightrightupcurvedarrow</code>		<code>\ncwopencirclearrow</code>
	<code>\ncwswarcarrow,</code>		<code>\ncwcirclearrowup</code>
	<code>\nupleftcurvedarrow</code>		<code>\ncwcirclearrowleft</code>
	<code>\ncwsearcarrow,</code>		<code>\nRrightarrow</code>
	<code>\nleftdowncurvedarrow</code>		<code>\nUparrow</code>
	<code>\ncwnearcarrow,</code>		<code>\nLleftarrow</code>
	<code>\ndownrightcurvedarrow</code>		<code>\nDdownarrow</code>
	<code>\nacwunderarcarrow</code>		<code>\nlongrightarrow</code>
	<code>\nacwrightarcarrow</code>		<code>\nlongleftarrow</code>
	<code>\nacwoverarcarrow,</code>		<code>\nLongrightarrow</code>
	<code>\ncurvearrowleft</code>		<code>\nLongleftarrow</code>























\longleftrightarrow	<code>\nlonglefttrightarrow</code>	\nleftVdash	<code>\ndashV</code>
\Leftrightarrow	<code>\nLonglefttrightarrow</code>	\nrightarrow	<code>\ndownVdash</code>
\mapsto	<code>\nlongmapsto</code>	\nrightarrow	<code>\nrightAssert, \nAssert</code>
\mapsto	<code>\nlongmapsfrom</code>	\nupVdash	<code>\nvDash</code>
\mapsto	<code>\nLongmapsto</code>	\nleftVdash	<code>\nleftAssert</code>
\mapsto	<code>\nLongmapsfrom</code>	\nrightarrow	<code>\ndownAssert, \nBarv</code>
\rightsquigarrow	<code>\nlongrightwavearrow,</code>	\nrightarrow	<code>\nrightVDash, \nVDash</code>
	<code>\nlongleadsto,</code>	\nupVDash	<code>\nupVDash</code>
	<code>\nlongrightsquigarrow</code>	\nleftVDash	<code>\nDashV</code>
\leftleftarrows	<code>\nlongleftwavearrow,</code>	\nrightarrow	<code>\ndownVDash</code>
	<code>\nlongleftsquigarrow</code>	\nrightarrow	<code>\nVdash</code>
\longleftarrow	<code>\nlongleftfootline,</code>	\nrightarrow	<code>\ndashVv</code>
	<code>\nvlongdash</code>	\nrightarrow	<code>\nvDdash</code>
\longrightarrow	<code>\nlongrightfootline,</code>	\nrightarrow	<code>\nDdashv</code>
	<code>\nlongdashv</code>	$:$	<code>:\mathratio</code>
\rightarrow	<code>\nrightvdash, \nvDash</code>	$::$	<code>\Colon</code>
\perp	<code>\nupvdash, \nperp</code>	—	<code>\relbar</code>
\dashleftarrow	<code>\nleftvdash, \ndashv</code>	$\dot{-}$	<code>\dotsminusdots</code>
\dashrightarrow	<code>\ndownvdash</code>	\Join	<code>\rJoin</code>
\rightharpoonup	<code>\nrightassert, \nassert,</code>	\Join	<code>\lJoin</code>
	<code>\nshortrighttack</code>	\Join	<code>\bowtie, \Join</code>
\uparrow	<code>\nupassert, \nshortuptack</code>	\propto	<code>\propto, \varpropto</code>
\Leftarrow	<code>\nleftassert, \nshortlefttack</code>	\propto	<code>\backpropto, \propfrom</code>
\Downarrow	<code>\ndownassert, \nshortdowntack</code>	\times	<code>\crossing</code>
\Rrightarrow	<code>\nrightvDash, \nvDash</code>	\emptyset	<code>\between</code>
\Updownarrow	<code>\nupvDash, \nVbar</code>	\mid	<code>\shortmid</code>
\Leftarrow	<code>\nleftvDash, \nDashv</code>	\mid	<code>\mid, \divides</code>
\Downarrow	<code>\ndownvDash, \nbarV</code>	\dagger	<code>\nshortmid</code>
\Rrightarrow	<code>\nrightmodels, \nmodels</code>	\dagger	<code>\nmid, \ndivides</code>
\Updownarrow	<code>\nupmodels</code>	\parallel	<code>\shortparallel</code>
\Leftarrow	<code>\nleftmodels</code>	\parallel	<code>\parallel</code>
\Downarrow	<code>\ndownmodels</code>	\nrightarrow	<code>\nshortparallel</code>
\Rrightarrow	<code>\nrightVdash, \nVDash</code>	\nrightarrow	<code>\nparallel</code>
\Updownarrow	<code>\nupVdash</code>		

4.4 Punctuation symbols

\cdot	<code>\cdot</code>	$:$	<code>\colon, \mathcolon</code>
---------	--------------------	-----	---------------------------------

4.5 Large operators

$\llbracket \llbracket \llbracket$	<code>\lbrack</code>	$\langle \langle \langle \langle$	<code>\langedot</code>
$\rrbracket \rrbracket \rrbracket$	<code>\rbrack</code>	$\rangle \rangle \rangle \rangle$	<code>\rangledot</code>
$\lfloor \lfloor \lfloor \lfloor$	<code>\lfloor floor</code>	$/// /$	<code>/, \mathslash</code>
$\rfloor \rfloor \rfloor \rfloor$	<code>\rfloor floor</code>	$\backslash \backslash \backslash \backslash$	<code>\backslash slash</code>
$\lceil \lceil \lceil \lceil$	<code>\lceil ceil</code>	$\vdots \vdots \vdots \vdots$	<code>\vdots, \vert</code>
$\rceil \rceil \rceil \rceil$	<code>\rceil ceil</code>	$\lvert \lvert \lvert \lvert$	<code>\lvert vert</code>
$\ulcorner \ulcorner \ulcorner \ulcorner$	<code>\ulcorner</code>	$\rvert \rvert \rvert \rvert$	<code>\rvert vert</code>
$\urcorner \urcorner \urcorner \urcorner$	<code>\urcorner</code>	$\V \V \V \V$	<code>\V, \V</code>
$\llcorner \llcorner \llcorner \llcorner$	<code>\llcorner</code>	$\lV \lV \lV \lV$	<code>\lV</code>
$\lrcorner \lrcorner \lrcorner \lrcorner$	<code>\lrcorner</code>	$\rV \rV \rV \rV$	<code>\rV</code>
$\ulcorner \ulcorner \ulcorner \ulcorner$	<code>\ulcorner</code>	$\V \V \V \V$	<code>\V</code>
$\ulcorner \urcorner \ulcorner \urcorner$	<code>\ulcorner</code>	$\lV \lV \lV \lV$	<code>\lV</code>
$\llbracket \llbracket \llbracket \llbracket$	<code>\lsem, \lBrack</code>	$\rV \rV \rV \rV$	<code>\rV</code>
$\rrbracket \rrbracket \rrbracket \rrbracket$	<code>\rsem, \rBrack</code>	$\lvert \lvert \lvert \lvert$	<code>\arrowvert</code>
$\{ \{ \{ \{$	<code>\lbrace, \{</code>	$\rvert \rvert \rvert \rvert$	<code>\Arrowvert</code>
$\} \} \} \}$	<code>\rbrace, \}</code>	$\left[\left[\left[\left[$	<code>\lgroup</code>
$\langle \langle \langle \langle$	<code>\langle</code>	$\right) \right) \right) \right)$	<code>\rgroup</code>
$\rangle \rangle \rangle \rangle$	<code>\rangle</code>	$\int \int \int \int$	<code>\lmoustache</code>
$\langle \langle \langle \langle$	<code>\langle</code>	$\lvert \lvert \lvert \lvert$	<code>\rmoustache</code>
$\rangle \rangle \rangle \rangle$	<code>\rangle</code>	$\lvert \lvert \lvert \lvert$	<code>\bracevert</code>

	<code>\uparrow</code>		<code>\Uparrow</code>
	<code>\downarrow</code>		<code>\Downarrow</code>
	<code>\updownarrow</code>		<code>\Updownarrow</code>
	<code>\overbrace</code>		<code>\overline</code>
	<code>\underbrace</code>		<code>\overlefttharpoon</code>
	<code>\overgroup</code>		<code>\overrighttharpoon</code>
	<code>\undergroup</code>		<code>\underline</code>
	<code>\sqrt</code>		<code>\vec</code>
	<code>\widehat</code>		<code>\middlebar</code>
	<code>\widetilde</code>		<code>\middleslash</code>
	<code>\wideparen</code>		<code>\strokethrough</code>

4.7 Faked symbols

The following symbols are taken from the text font or another math font (in case of `\Bbbk`, `\Re` and `\Im`).

\dagger	<code>\dagger</code>	\Bbbk	<code>\Bbbk</code>
\ddagger	<code>\ddagger</code>	\Re	<code>\Re</code>
\P	<code>\mathparagraph</code>	\Im	<code>\Im</code>
\S	<code>\mathsection</code>	\hbar	<code>\hbar</code>
$\$$	<code>\mathdollar</code>	\hslash	<code>\hslash</code>
\pounds	<code>\mathsterling</code>	\textcircled{R}	<code>\circledR</code>
\yen	<code>\yen</code>	\textcircled{S}	<code>\circledS</code>

4.8 Missing symbols

The following symbols from Computer Modern or the AMS fonts are missing in `FdSymbol`. If available, they should be taken from the text font.

<code>\mho</code>	<code>\varkappa</code>	<code>\rhook</code>
<code>\nabla</code>	<code>\backepsilon</code>	<code>\diagup</code>
<code>\eth</code>	<code>\mapstochar</code>	<code>\diagdown</code>
<code>\digamma</code>	<code>\lhook</code>	

5 Implementation

```

1 \langle *style\rangle
2 \RequirePackage{xkeyval}
3 \newcommand*\fdsy@choicekey[3]{%
4   \define@choicekey*{fdsymbol.sty}{#1}[\@tempa\@tempb]{#2}{#3}%
5 }

```

We use xkeyval’s key mechanism to declare all options. The first options determines the size of delimiters.

```

6 \define@boolkey{fdsymbol.sty}[fdsy@]{largedelims}[true]{}

```

The next option allows to scale the fonts by an arbitrary factor.

```

7 \newcommand{\fdsy@scale}{1.0}
8 \define@key{fdsymbol.sty}{scale}{\renewcommand\fdsy@scale{#1}}

```

The following two options control which weights are used for which math version and font size.

```

9 \newcommand\fdsy@mweight@normal{Book}
10 \newcommand\fdsy@mweight@small{Book}
11 \newcommand\fdsy@bweight@normal{Medium}
12 \newcommand\fdsy@bweight@small{Medium}
13 \fdsy@choicekey{normalweight}{book,regular,auto}{%
14   \ifcase\@tempb\relax
15     \renewcommand\fdsy@mweight@normal{Book}%
16     \renewcommand\fdsy@mweight@small{Book}%
17   \or
18     \renewcommand\fdsy@mweight@normal{Regular}%
19     \renewcommand\fdsy@mweight@small{Regular}%
20   \or
21     \renewcommand\fdsy@mweight@normal{Book}%
22     \renewcommand\fdsy@mweight@small{Regular}%
23   \fi
24 }
25 \fdsy@choicekey{boldweight}{medium,bold,auto}{%
26   \ifcase\@tempb\relax
27     \renewcommand\fdsy@bweight@normal{Medium}%
28     \renewcommand\fdsy@bweight@small{Medium}%
29   \or
30     \renewcommand\fdsy@bweight@normal{Bold}%
31     \renewcommand\fdsy@bweight@small{Bold}%
32   \or
33     \renewcommand\fdsy@bweight@normal{Medium}%
34     \renewcommand\fdsy@bweight@small{Bold}%
35   \fi
36 }
37 \ExecuteOptionsX{largedelims=false}

```

```
38 \ProcessOptionsX
```

Load external packages, but only if they are not already loaded in order to avoid warning messages about loading a package twice with different options.

```
39 \ifpackageloaded{amsmath}{}{\RequirePackage{amsmath}}
```

```
40 \ifpackageloaded{textcomp}{}{\RequirePackage{textcomp}}
```

If the option `largedelims` has been selected, we readjust the scaling factors of big delimiters, so that `\Big`, `\bigg` and `\Bigg` do not change their size.

```
41 \iffdsy@largedelims
```

```
42 \renewcommand{\Big}{\bBigg@{1.25}}
```

```
43 \renewcommand{\bigg}{\bBigg@{1.66}}
```

```
44 \renewcommand{\Bigg}{\bBigg@{2.08}}
```

```
45 \fi
```

Some symbols missing from `FdSymbol` can be obtained from other fonts or by combining several other symbols.

```
46 \DeclareRobustCommand{\dagger}{\fdsy@text{\textdagger}}
```

```
47 \DeclareRobustCommand{\ddagger}{\fdsy@text{\textdaggerdbl}}
```

```
48 \DeclareRobustCommand{\mathparagraph}{\fdsy@text{\textparagraph}}
```

```
49 \DeclareRobustCommand{\mathsection}{\fdsy@text{\textsection}}
```

```
50 \DeclareRobustCommand{\mathdollar}{\fdsy@text{\textdollar}}
```

```
51 \DeclareRobustCommand{\mathsterling}{\fdsy@text{\textsterling}}
```

```
52 \DeclareRobustCommand{\yen}{\fdsy@text{\textyen}}
```

```
53 \DeclareRobustCommand{\circledR}{\fdsy@text{\textcircled{\%
```

```
54 \check@mathfonts\fontsize\sf@size\z@\math@fontsfalse\selectfont R}}}
```

```
55 \DeclareRobustCommand{\circledS}{\fdsy@text{\textcircled{\%
```

```
56 \check@mathfonts\fontsize\sf@size\z@\math@fontsfalse\selectfont S}}}
```

```
57 \DeclareRobustCommand{\Re}{\mathfrak{R}}
```

```
58 \DeclareRobustCommand{\Im}{\mathfrak{I}}
```

```
59 \DeclareRobustCommand{\dotcong}{\mathrel{\dot{\cong}}}
```

```
60 \DeclareRobustCommand{\thicksim}{\mathrel{\text{\boldmath$\math@sim$}}}
```

```
61 \DeclareRobustCommand{\thickapprox}{\mathrel{\text{\boldmath$\math@thickapprox$}}}
```

```
62 \let\hbar\undefined
```

```
63 \let\hslash\undefined
```

```
64 \DeclareRobustCommand{\hbar}{\middlebar h}
```

```
65 \DeclareRobustCommand{\hslash}{\middleslash h}
```

```
66 \DeclareRobustCommand{\centerdot}{\mathbin{\rule{0.15em}{0.15em}}}
```

Unneeded partial symbols.

```
67 \let\mapstochar\undefined
```

```
68 \let\lhook\undefined
```

```
69 \let\rhook\undefined
```

Shorthands to simplify the definitions below.

```
70 \newcommand{\fdsy@setslot[1]}{\@tempcnta #1\relax}
```

```
71 \newcommand{\fdsy@nextslot}{\advance\@tempcnta 1\relax}
```

```
72 \newcommand{\fdsy@prevslot}{\advance\@tempcnta -1\relax}
```

```

73
74 \newcommand\fdsy@DeclareSymbol[4]{\DeclareMathSymbol{#2}{#3}{#4}{#1}}
75 \newcommand\fdsy@DeclareSymbol[3]{%
76   \if\relax\noexpand#1\let#1\undefined\fi
77   \expandafter\fdsy@DeclareSymbol\expandafter{\the\@tempcnta}{#1}{#3}{#2}%
78   \fdsy@nextslot
79 }
80 \newcommand\fdsy@DeclareAlias[3]{\fdsy@prevslot\fdsy@DeclareSymbol{#1}{#2}{#3}}
81 \newcommand\fdsy@DeclareOperator[3]{\def#1{\DOTSB#3\slimits@}}
82 \newcommand\fdsy@DeclareIntegral[3]{\def#1{\DOTSI#3\ilimits@}}
83 \newcommand\fdsy@DeclareDelimiter[4]{%
84   \if\relax\noexpand#1\let#1\undefined\fi
85   \DeclareMathDelimiter{#1}{#2}{#3}{#4}{#3}{#4}%
86 }
87 \newcommand\fdsy@DeclareOpen[3]{\fdsy@DeclareDelimiter{#1}{\mathopen}{#2}{#3}}
88 \newcommand\fdsy@DeclareClose[3]{\fdsy@DeclareDelimiter{#1}{\mathclose}{#2}{#3}}

```

Font definitions.

```

89 \DeclareFontFamily{U}{FdSymbolA}{}
90 \DeclareFontFamily{U}{FdSymbolB}{}
91 \DeclareFontFamily{U}{FdSymbolC}{}
92 \DeclareFontFamily{U}{FdSymbolD}{}
93 \DeclareFontFamily{U}{FdSymbolE}{}
94 \DeclareFontFamily{U}{FdSymbolF}{}
95
96 \DeclareFontShape{U}{FdSymbolA}{m}{n}{
97   <-7.1> s * [\fdsy@scale] FdSymbolA-\fdsy@mweight@small
98   <7.1-> s * [\fdsy@scale] FdSymbolA-\fdsy@mweight@normal
99 }{}
100 \DeclareFontShape{U}{FdSymbolA}{b}{n}{
101   <-7.1> s * [\fdsy@scale] FdSymbolA-\fdsy@bweight@small
102   <7.1-> s * [\fdsy@scale] FdSymbolA-\fdsy@bweight@normal
103 }{}
104 \DeclareFontShape{U}{FdSymbolB}{m}{n}{
105   <-7.1> s * [\fdsy@scale] FdSymbolB-\fdsy@mweight@small
106   <7.1-> s * [\fdsy@scale] FdSymbolB-\fdsy@mweight@normal
107 }{}
108 \DeclareFontShape{U}{FdSymbolB}{b}{n}{
109   <-7.1> s * [\fdsy@scale] FdSymbolB-\fdsy@bweight@small
110   <7.1-> s * [\fdsy@scale] FdSymbolB-\fdsy@bweight@normal
111 }{}
112 \DeclareFontShape{U}{FdSymbolC}{m}{n}{
113   <-7.1> s * [\fdsy@scale] FdSymbolC-\fdsy@mweight@small
114   <7.1-> s * [\fdsy@scale] FdSymbolC-\fdsy@mweight@normal
115 }{}
116 \DeclareFontShape{U}{FdSymbolC}{b}{n}{

```

```

117 <-7.1> s * [\fdsy@scale] FdSymbolC-\fdsy@bweight@small
118 <7.1-> s * [\fdsy@scale] FdSymbolC-\fdsy@bweight@normal
119 {}{}
120 \DeclareFontShape{U}{FdSymbolD}{m}{n}{
121 <-7.1> s * [\fdsy@scale] FdSymbolD-\fdsy@mweight@small
122 <7.1-> s * [\fdsy@scale] FdSymbolD-\fdsy@mweight@normal
123 {}{}
124 \DeclareFontShape{U}{FdSymbolD}{b}{n}{
125 <-7.1> s * [\fdsy@scale] FdSymbolD-\fdsy@bweight@small
126 <7.1-> s * [\fdsy@scale] FdSymbolD-\fdsy@bweight@normal
127 {}{}
128 \DeclareFontShape{U}{FdSymbolE}{m}{n}{
129 <-7.1> s * [\fdsy@scale] FdSymbolE-\fdsy@mweight@small
130 <7.1-> s * [\fdsy@scale] FdSymbolE-\fdsy@mweight@normal
131 {}{}
132 \DeclareFontShape{U}{FdSymbolE}{b}{n}{
133 <-7.1> s * [\fdsy@scale] FdSymbolE-\fdsy@bweight@small
134 <7.1-> s * [\fdsy@scale] FdSymbolE-\fdsy@bweight@normal
135 {}{}
136 \DeclareFontShape{U}{FdSymbolF}{m}{n}{
137 <-7.1> s * [\fdsy@scale] FdSymbolF-\fdsy@mweight@small
138 <7.1-> s * [\fdsy@scale] FdSymbolF-\fdsy@mweight@normal
139 {}{}
140 \DeclareFontShape{U}{FdSymbolF}{b}{n}{
141 <-7.1> s * [\fdsy@scale] FdSymbolF-\fdsy@bweight@small
142 <7.1-> s * [\fdsy@scale] FdSymbolF-\fdsy@bweight@normal
143 {}{}
144
145 \DeclareSymbolFont{symbols}{U}{FdSymbolA}{m}{n}
146 \DeclareSymbolFont{relations}{U}{FdSymbolB}{m}{n}
147 \DeclareSymbolFont{arrows}{U}{FdSymbolC}{m}{n}
148 \DeclareSymbolFont{narrows}{U}{FdSymbolD}{m}{n}
149 \DeclareSymbolFont{largesymbols}{U}{FdSymbolE}{m}{n}
150 \DeclareSymbolFont{delimiters}{U}{FdSymbolF}{m}{n}
151 \SetSymbolFont{symbols}{bold}{U}{FdSymbolA}{b}{n}
152 \SetSymbolFont{relations}{bold}{U}{FdSymbolB}{b}{n}
153 \SetSymbolFont{arrows}{bold}{U}{FdSymbolC}{b}{n}
154 \SetSymbolFont{narrows}{bold}{U}{FdSymbolD}{b}{n}
155 \SetSymbolFont{largesymbols}{bold}{U}{FdSymbolE}{b}{n}
156 \SetSymbolFont{delimiters}{bold}{U}{FdSymbolF}{b}{n}

At the moment, we still use cmsy for the calligraphic alphabet, msb for the black-
board bold alphabet, and euf for the Fraktur alphabet.
157 \DeclareMathAlphabet{\mathcal}{OMS}{cmsy}{m}{n}
158 \SetMathAlphabet{\mathcal}{bold}{OMS}{cmsy}{b}{n}
159 \DeclareMathAlphabet{\mathbb}{U}{msb}{m}{n}

```

```

160 \DeclareMathAlphabet{\mathfrak}{U}{euf}{m}{n}
161 \SetMathAlphabet{\mathfrak}{bold}{U}{euf}{b}{n}
162 \let\Bbbk\undefined
163 \newcommand{\Bbbk}{\mathbb{\mathchar"717C}}

```

A command for taking math symbols from the text font.

```

164 \def\fdsy@bold{bold}
165 \newcommand*\fdsy@text[1]{%
166   \ifx\fdsy@bold\math@version
167     \text{\normalfont\bfseries#1}%
168   \else
169     \text{\normalfont\mdseries#1}%
170   \fi
171 }

```

FdSymbolA: binary operators and ordinary symbols

```

172 \fdsy@setslot{0}
173 \fdsy@DeclareSymbol{\cdot}{symbols}{\mathbin}
174 \fdsy@DeclareAlias{\cdotp}{symbols}{\mathpunct}
175 \fdsy@DeclareSymbol{\hdotdot}{symbols}{\mathbin}
176 \fdsy@DeclareSymbol{\vdotdot}{symbols}{\mathbin}
177 \fdsy@DeclareAlias{\colon}{symbols}{\mathpunct}
178 \fdsy@DeclareAlias{\mathcolon}{symbols}{\mathpunct}
179 \fdsy@DeclareAlias{\mathratio}{symbols}{\mathrel}
180 \fdsy@DeclareSymbol{\udotdot}{symbols}{\mathbin}
181 \fdsy@DeclareSymbol{\ddotdot}{symbols}{\mathbin}
182 \fdsy@DeclareSymbol{\hdots}{symbols}{\mathord}
183 \fdsy@DeclareAlias{\@cdots}{symbols}{\mathinner}
184 \let\cdots\@cdots
185 \fdsy@DeclareSymbol{\@vdots}{symbols}{\mathord}
186 \DeclareRobustCommand{\vdots}{\ifmmode\@vdots\else\hbox{$\@vdots$}\fi}
187 \fdsy@DeclareSymbol{\udots}{symbols}{\mathord}
188 \fdsy@DeclareAlias{\adots}{symbols}{\mathord}
189 \fdsy@DeclareSymbol{\ddots}{symbols}{\mathord}
190 \fdsy@DeclareSymbol{\righttherefore}{symbols}{\mathord}
191 \fdsy@DeclareSymbol{\uptherefore}{symbols}{\mathord}
192 \fdsy@DeclareAlias{\therefore}{symbols}{\mathord}
193 \fdsy@DeclareSymbol{\lefttherefore}{symbols}{\mathord}
194 \fdsy@DeclareSymbol{\downtherefore}{symbols}{\mathord}
195 \fdsy@DeclareAlias{\because}{symbols}{\mathord}
196 \fdsy@DeclareSymbol{\squaredots}{symbols}{\mathord}
197 \fdsy@DeclareAlias{\Colon}{symbols}{\mathrel}
198 \fdsy@DeclareSymbol{\minus}{symbols}{\mathbin}
199 \fdsy@DeclareSymbol{\medslash}{symbols}{\mathbin}
200 \fdsy@DeclareAlias{\smalldivslash}{symbols}{\mathbin}
201 \fdsy@DeclareSymbol{\medbackslash}{symbols}{\mathbin}
202 \fdsy@DeclareAlias{\smallsetminus}{symbols}{\mathbin}

```

```

203 \fdsy@DeclareSymbol{\plus}{symbols}{\mathbin}
204 \fdsy@DeclareSymbol{\times}{symbols}{\mathbin}
205 \fdsy@DeclareSymbol{\dotminus}{symbols}{\mathbin}
206 \fdsy@DeclareSymbol{\minusdot}{symbols}{\mathbin}
207 \fdsy@DeclareSymbol{\div}{symbols}{\mathbin}
208 \fdsy@DeclareSymbol{\minusfdots}{symbols}{\mathbin}
209 \fdsy@DeclareSymbol{\minusrdots}{symbols}{\mathbin}
210 \fdsy@DeclareSymbol{\dotsminusdots}{symbols}{\mathrel}
211 \fdsy@DeclareSymbol{\pm}{symbols}{\mathbin}
212 \fdsy@DeclareSymbol{\mp}{symbols}{\mathbin}
213 \fdsy@DeclareSymbol{\dotplus}{symbols}{\mathbin}
214 \fdsy@DeclareSymbol{\plusdot}{symbols}{\mathbin}
215 \fdsy@DeclareSymbol{\dottimes}{symbols}{\mathbin}
216 \fdsy@DeclareSymbol{\timesbar}{symbols}{\mathbin}
217 \fdsy@DeclareSymbol{\divideontimes}{symbols}{\mathbin}
218 \fdsy@DeclareSymbol{\neg}{symbols}{\mathord}
219 \fdsy@DeclareAlias{\lnot}{symbols}{\mathord}
220 \fdsy@DeclareAlias{\minushookdown}{symbols}{\mathbin}
221 \fdsy@DeclareSymbol{\backneg}{symbols}{\mathord}
222 \fdsy@DeclareAlias{\hookdownminus}{symbols}{\mathbin}
223 \fdsy@DeclareAlias{\invneg}{symbols}{\mathord}
224 \fdsy@DeclareAlias{\invnot}{symbols}{\mathord}
225 \fdsy@DeclareSymbol{\intprod}{symbols}{\mathbin}
226 \fdsy@DeclareAlias{\minushookup}{symbols}{\mathbin}
227 \fdsy@DeclareAlias{\turnedneg}{symbols}{\mathord}
228 \fdsy@DeclareAlias{\turnednot}{symbols}{\mathord}
229 \fdsy@DeclareSymbol{\intprodr}{symbols}{\mathbin}
230 \fdsy@DeclareAlias{\hookupminus}{symbols}{\mathbin}
231 \fdsy@DeclareAlias{\turnedbackneg}{symbols}{\mathord}
232 \fdsy@DeclareSymbol{\leftthreetimes}{symbols}{\mathbin}
233 \fdsy@DeclareSymbol{\rightthreetimes}{symbols}{\mathbin}
234 \fdsy@DeclareSymbol{\dtimes}{symbols}{\mathbin}
235 \fdsy@DeclareAlias{\btimes}{symbols}{\mathbin}
236 \fdsy@DeclareSymbol{\rtimes}{symbols}{\mathbin}
237 \fdsy@DeclareAlias{\rJoin}{symbols}{\mathrel}
238 \fdsy@DeclareSymbol{\utimes}{symbols}{\mathbin}
239 \fdsy@DeclareAlias{\ttimes}{symbols}{\mathbin}
240 \fdsy@DeclareSymbol{\ltimes}{symbols}{\mathbin}
241 \fdsy@DeclareAlias{\lJoin}{symbols}{\mathrel}
242 \fdsy@DeclareSymbol{\bowtie}{symbols}{\mathrel}
243 \fdsy@DeclareAlias{\Join}{symbols}{\mathrel}
244 \fdsy@DeclareAlias{\lrtimes}{symbols}{\mathbin}
245 \fdsy@DeclareSymbol{\upbowtie}{symbols}{\mathbin}
246 \fdsy@DeclareAlias{\hourglass}{symbols}{\mathbin}
247 \fdsy@DeclareSymbol{\rightY}{symbols}{\mathbin}

```



```

248 \fdsy@DeclareSymbol{\upY}{symbols}{\mathbin}
249 \fdsy@DeclareSymbol{\leftY}{symbols}{\mathbin}
250 \fdsy@DeclareSymbol{\downY}{symbols}{\mathbin}
251 \fdsy@DeclareSymbol{\wedge}{symbols}{\mathbin}
252 \fdsy@DeclareAlias{\land}{symbols}{\mathbin}
253 \fdsy@DeclareSymbol{\vee}{symbols}{\mathbin}
254 \fdsy@DeclareAlias{\lor}{symbols}{\mathbin}
255 \fdsy@DeclareSymbol{\wedgedot}{symbols}{\mathbin}
256 \fdsy@DeclareSymbol{\veedot}{symbols}{\mathbin}
257 \fdsy@DeclareSymbol{\doublewedge}{symbols}{\mathbin}
258 \fdsy@DeclareAlias{\wedgeonwedge}{symbols}{\mathbin}
259 \fdsy@DeclareSymbol{\doublevee}{symbols}{\mathbin}
260 \fdsy@DeclareAlias{\veeonvee}{symbols}{\mathbin}
261 \fdsy@DeclareSymbol{\curlywedge}{symbols}{\mathbin}
262 \fdsy@DeclareSymbol{\curlyvee}{symbols}{\mathbin}
263 \fdsy@DeclareSymbol{\barwedge}{symbols}{\mathbin}
264 \fdsy@DeclareSymbol{\veebar}{symbols}{\mathbin}
265 \fdsy@DeclareSymbol{\doublebarwedge}{symbols}{\mathbin}
266 \fdsy@DeclareSymbol{\veedoublebar}{symbols}{\mathbin}
267 \fdsy@DeclareSymbol{\cup}{symbols}{\mathbin}
268 \fdsy@DeclareSymbol{\cap}{symbols}{\mathbin}
269 \fdsy@DeclareSymbol{\doublecup}{symbols}{\mathbin}
270 \fdsy@DeclareAlias{\Cup}{symbols}{\mathbin}
271 \fdsy@DeclareSymbol{\doublecap}{symbols}{\mathbin}
272 \fdsy@DeclareAlias{\Cap}{symbols}{\mathbin}
273 \fdsy@DeclareSymbol{\cupdot}{symbols}{\mathbin}
274 \fdsy@DeclareSymbol{\capdot}{symbols}{\mathbin}
275 \fdsy@DeclareSymbol{\cupplus}{symbols}{\mathbin}
276 \fdsy@DeclareAlias{\uplus}{symbols}{\mathbin}
277 \fdsy@DeclareSymbol{\capplus}{symbols}{\mathbin}
278 \fdsy@DeclareSymbol{\sqcup}{symbols}{\mathbin}
279 \fdsy@DeclareSymbol{\sqcap}{symbols}{\mathbin}
280 \fdsy@DeclareSymbol{\doublesqcup}{symbols}{\mathbin}
281 \fdsy@DeclareAlias{\Sqcup}{symbols}{\mathbin}
282 \fdsy@DeclareSymbol{\doublesqcap}{symbols}{\mathbin}
283 \fdsy@DeclareAlias{\Sqcap}{symbols}{\mathbin}
284 \fdsy@DeclareSymbol{\sqcupdot}{symbols}{\mathbin}
285 \fdsy@DeclareSymbol{\sqcapdot}{symbols}{\mathbin}
286 \fdsy@DeclareSymbol{\sqcupplus}{symbols}{\mathbin}
287 \fdsy@DeclareSymbol{\sqcapplus}{symbols}{\mathbin}
288 \fdsy@DeclareSymbol{\pullback}{symbols}{\mathbin}
289 \fdsy@DeclareSymbol{\pushout}{symbols}{\mathbin}
290 \fdsy@DeclareSymbol{\smalltriangleright}{symbols}{\mathbin}
291 \fdsy@DeclareSymbol{\smalltriangleup}{symbols}{\mathbin}
292 \fdsy@DeclareSymbol{\smalltriangleleft}{symbols}{\mathbin}

```

```

293 \fdsy@DeclareSymbol{\smalltriangledown}{symbols}{\mathbin}
294 \fdsy@DeclareSymbol{\smallblacktriangleright}{symbols}{\mathbin}
295 \fdsy@DeclareSymbol{\smallblacktriangleup}{symbols}{\mathbin}
296 \fdsy@DeclareSymbol{\smallblacktriangleleft}{symbols}{\mathbin}
297 \fdsy@DeclareSymbol{\smallblacktriangledown}{symbols}{\mathbin}
298 \fdsy@DeclareSymbol{\medtriangleright}{symbols}{\mathbin}
299 \fdsy@DeclareAlias{\triangleright}{symbols}{\mathbin}
300 \fdsy@DeclareSymbol{\medtriangleup}{symbols}{\mathbin}
301 \fdsy@DeclareAlias{\triangle}{symbols}{\mathbin}
302 \fdsy@DeclareAlias{\vartriangle}{symbols}{\mathbin}
303 \fdsy@DeclareSymbol{\medtriangleleft}{symbols}{\mathbin}
304 \fdsy@DeclareAlias{\triangleleft}{symbols}{\mathbin}
305 \fdsy@DeclareSymbol{\medtriangledown}{symbols}{\mathbin}
306 \fdsy@DeclareAlias{\triangledown}{symbols}{\mathbin}
307 \fdsy@DeclareSymbol{\medblacktriangleright}{symbols}{\mathbin}
308 \fdsy@DeclareAlias{\blacktriangleright}{symbols}{\mathbin}
309 \fdsy@DeclareSymbol{\medblacktriangleup}{symbols}{\mathbin}
310 \fdsy@DeclareAlias{\blacktriangle}{symbols}{\mathbin}
311 \fdsy@DeclareSymbol{\medblacktriangleleft}{symbols}{\mathbin}
312 \fdsy@DeclareAlias{\blacktriangleleft}{symbols}{\mathbin}
313 \fdsy@DeclareSymbol{\medblacktriangledown}{symbols}{\mathbin}
314 \fdsy@DeclareAlias{\blacktriangledown}{symbols}{\mathbin}
315 \fdsy@DeclareSymbol{\largetriangleup}{symbols}{\mathord}
316 \fdsy@DeclareAlias{\bigtriangleup}{symbols}{\mathbin}
317 \fdsy@DeclareSymbol{\largetriangledown}{symbols}{\mathord}
318 \fdsy@DeclareAlias{\bigtriangledown}{symbols}{\mathbin}
319 \fdsy@DeclareSymbol{\smallcircle}{symbols}{\mathbin}
320 \fdsy@DeclareAlias{\circ}{symbols}{\mathbin}
321 \fdsy@DeclareAlias{\smwhtcircle}{symbols}{\mathbin}
322 \fdsy@DeclareSymbol{\smallblackcircle}{symbols}{\mathbin}
323 \fdsy@DeclareAlias{\bullet}{symbols}{\mathbin}
324 \fdsy@DeclareAlias{\smbkcircle}{symbols}{\mathbin}
325 \fdsy@DeclareSymbol{\medcircle}{symbols}{\mathbin}
326 \fdsy@DeclareAlias{\mdlgwhtcircle}{symbols}{\mathbin}
327 \fdsy@DeclareSymbol{\medblackcircle}{symbols}{\mathbin}
328 \fdsy@DeclareAlias{\mdlgbkcircle}{symbols}{\mathbin}
329 \fdsy@DeclareSymbol{\ominus}{symbols}{\mathbin}
330 \fdsy@DeclareSymbol{\overt}{symbols}{\mathbin}
331 \fdsy@DeclareAlias{\circledvert}{symbols}{\mathbin}
332 \fdsy@DeclareSymbol{\oslash}{symbols}{\mathbin}
333 \fdsy@DeclareSymbol{\obackslash}{symbols}{\mathbin}
334 \fdsy@DeclareAlias{\obslash}{symbols}{\mathbin}
335 \fdsy@DeclareSymbol{\oplus}{symbols}{\mathbin}
336 \fdsy@DeclareSymbol{\otimes}{symbols}{\mathbin}
337 \fdsy@DeclareSymbol{\odot}{symbols}{\mathbin}

```

```

338 \fdsy@DeclareSymbol{\ocirc}{symbols}{\mathbin}
339 \fdsy@DeclareAlias{\circledcirc}{symbols}{\mathbin}
340 \fdsy@DeclareSymbol{\oast}{symbols}{\mathbin}
341 \fdsy@DeclareAlias{\circledast}{symbols}{\mathbin}
342 \fdsy@DeclareSymbol{\odash}{symbols}{\mathbin}
343 \fdsy@DeclareAlias{\circleddash}{symbols}{\mathbin}
344 \fdsy@DeclareSymbol{\oequal}{symbols}{\mathbin}
345 \fdsy@DeclareAlias{\circledequal}{symbols}{\mathbin}
346 \fdsy@DeclareSymbol{\emptyset}{symbols}{\mathord}
347 \fdsy@DeclareAlias{\diameter}{symbols}{\mathord}
348 \fdsy@DeclareAlias{\varnothing}{symbols}{\mathord}
349 \fdsy@DeclareSymbol{\revemptyset}{symbols}{\mathord}
350 \fdsy@DeclareSymbol{\largecircle}{symbols}{\mathord}
351 \fdsy@DeclareAlias{\bigcirc}{symbols}{\mathord}
352 \fdsy@DeclareAlias{\lgwhtcircle}{symbols}{\mathord}
353 \fdsy@DeclareSymbol{\largeblackcircle}{symbols}{\mathord}
354 \fdsy@DeclareAlias{\lgblkcircle}{symbols}{\mathord}
355 \fdsy@DeclareSymbol{\smallsquare}{symbols}{\mathbin}
356 \fdsy@DeclareAlias{\smwhtsquare}{symbols}{\mathbin}
357 \fdsy@DeclareSymbol{\smallblacksquare}{symbols}{\mathbin}
358 \fdsy@DeclareAlias{\smbblsquare}{symbols}{\mathbin}
359 \fdsy@DeclareSymbol{\medsquare}{symbols}{\mathbin}
360 \fdsy@DeclareAlias{\square}{symbols}{\mathbin}
361 \fdsy@DeclareAlias{\Box}{symbols}{\mathbin}
362 \fdsy@DeclareAlias{\mdlgwhtsquare}{symbols}{\mathbin}
363 \fdsy@DeclareAlias{\mdwhtsquare}{symbols}{\mathbin}
364 \fdsy@DeclareSymbol{\medblacksquare}{symbols}{\mathbin}
365 \fdsy@DeclareAlias{\mdlgblksquare}{symbols}{\mathbin}
366 \fdsy@DeclareAlias{\mdblsquare}{symbols}{\mathbin}
367 \fdsy@DeclareSymbol{\boxminus}{symbols}{\mathbin}
368 \fdsy@DeclareSymbol{\boxvert}{symbols}{\mathbin}
369 \fdsy@DeclareAlias{\boxbar}{symbols}{\mathbin}
370 \fdsy@DeclareSymbol{\boxslash}{symbols}{\mathbin}
371 \fdsy@DeclareAlias{\boxdiag}{symbols}{\mathbin}
372 \fdsy@DeclareSymbol{\boxbackslash}{symbols}{\mathbin}
373 \fdsy@DeclareAlias{\boxbslash}{symbols}{\mathbin}
374 \fdsy@DeclareSymbol{\boxplus}{symbols}{\mathbin}
375 \fdsy@DeclareSymbol{\boxtimes}{symbols}{\mathbin}
376 \fdsy@DeclareSymbol{\boxdot}{symbols}{\mathbin}
377 \fdsy@DeclareSymbol{\boxbox}{symbols}{\mathbin}
378 \fdsy@DeclareSymbol{\largesquare}{symbols}{\mathord}
379 \fdsy@DeclareAlias{\lgwhtsquare}{symbols}{\mathord}
380 \fdsy@DeclareSymbol{\largeblacksquare}{symbols}{\mathord}
381 \fdsy@DeclareAlias{\lgblksquare}{symbols}{\mathord}
382 \fdsy@DeclareSymbol{\smallldiamond}{symbols}{\mathbin}

```

```

383 \fdsy@DeclareAlias{\diamond}{symbols}{\mathbin}
384 \fdsy@DeclareAlias{\smwhtdiamond}{symbols}{\mathbin}
385 \fdsy@DeclareSymbol{\smallblackdiamond}{symbols}{\mathbin}
386 \fdsy@DeclareAlias{\blackdiamond}{symbols}{\mathbin}
387 \fdsy@DeclareAlias{\smbldiamond}{symbols}{\mathbin}
388 \fdsy@DeclareSymbol{\meddiamond}{symbols}{\mathbin}
389 \fdsy@DeclareAlias{\Diamond}{symbols}{\mathbin}
390 \fdsy@DeclareAlias{\mdlgwhtdiamond}{symbols}{\mathbin}
391 \fdsy@DeclareAlias{\mdwhtdiamond}{symbols}{\mathbin}
392 \fdsy@DeclareSymbol{\medblackdiamond}{symbols}{\mathbin}
393 \fdsy@DeclareAlias{\mdlgblkdiamond}{symbols}{\mathbin}
394 \fdsy@DeclareAlias{\mdblkdiamond}{symbols}{\mathbin}
395 \fdsy@DeclareSymbol{\diamondminus}{symbols}{\mathbin}
396 \fdsy@DeclareSymbol{\diamondvert}{symbols}{\mathbin}
397 \fdsy@DeclareSymbol{\diamondslash}{symbols}{\mathbin}
398 \fdsy@DeclareSymbol{\diamondbackslash}{symbols}{\mathbin}
399 \fdsy@DeclareAlias{\diamondbslash}{symbols}{\mathbin}
400 \fdsy@DeclareSymbol{\diamondplus}{symbols}{\mathbin}
401 \fdsy@DeclareSymbol{\diamondtimes}{symbols}{\mathbin}
402 \fdsy@DeclareSymbol{\diamonddot}{symbols}{\mathbin}
403 \fdsy@DeclareAlias{\diamondcdot}{symbols}{\mathbin}
404 \fdsy@DeclareSymbol{\diamonddiamond}{symbols}{\mathbin}
405 \fdsy@DeclareSymbol{\smalllozenge}{symbols}{\mathord}
406 \fdsy@DeclareAlias{\smwhtlozenge}{symbols}{\mathord}
407 \fdsy@DeclareSymbol{\smallblacklozenge}{symbols}{\mathord}
408 \fdsy@DeclareAlias{\smbldlozenge}{symbols}{\mathord}
409 \fdsy@DeclareSymbol{\medlozenge}{symbols}{\mathord}
410 \fdsy@DeclareAlias{\lozenge}{symbols}{\mathord}
411 \fdsy@DeclareAlias{\mdlgwhtlozenge}{symbols}{\mathord}
412 \fdsy@DeclareAlias{\mdwhtlozenge}{symbols}{\mathord}
413 \fdsy@DeclareSymbol{\medblacklozenge}{symbols}{\mathord}
414 \fdsy@DeclareAlias{\blacklozenge}{symbols}{\mathord}
415 \fdsy@DeclareAlias{\mdlgblklozenge}{symbols}{\mathord}
416 \fdsy@DeclareAlias{\mdblkllozenge}{symbols}{\mathord}
417 \fdsy@DeclareSymbol{\lozengeminus}{symbols}{\mathord}
418 \fdsy@DeclareSymbol{\smallwhitestar}{symbols}{\mathbin}
419 \fdsy@DeclareAlias{\smwhitestar}{symbols}{\mathbin}
420 \fdsy@DeclareSymbol{\smallblackstar}{symbols}{\mathbin}
421 \fdsy@DeclareAlias{\star}{symbols}{\mathbin}
422 \fdsy@DeclareSymbol{\medwhitestar}{symbols}{\mathbin}
423 \fdsy@DeclareSymbol{\medblackstar}{symbols}{\mathbin}
424 \fdsy@DeclareAlias{\medstar}{symbols}{\mathbin}
425 \fdsy@DeclareSymbol{\largewhitestar}{symbols}{\mathord}
426 \fdsy@DeclareSymbol{\largeblackstar}{symbols}{\mathord}
427 \fdsy@DeclareAlias{\bigstar}{symbols}{\mathord}

```

```

428 \fdsy@DeclareSymbol{\ast}{symbols}{\mathbin}
429 \fdsy@DeclareSymbol{\infty}{symbols}{\mathord}
430 \fdsy@DeclareSymbol{\propto}{symbols}{\mathrel}
431 \fdsy@DeclareAlias{\varpropto}{symbols}{\mathrel}
432 \fdsy@DeclareSymbol{\backpropto}{symbols}{\mathrel}
433 \fdsy@DeclareAlias{\propfrom}{symbols}{\mathrel}
434 \fdsy@DeclareSymbol{\crossing}{symbols}{\mathrel}
435 \fdsy@DeclareSymbol{\between}{symbols}{\mathrel}
436 \fdsy@DeclareSymbol{\intercal}{symbols}{\mathbin}
437 \fdsy@DeclareSymbol{\wreath}{symbols}{\mathbin}
438 \fdsy@DeclareAlias{\wr}{symbols}{\mathbin}
439 \fdsy@DeclareSymbol{\angle}{symbols}{\mathord}
440 \fdsy@DeclareSymbol{\revangle}{symbols}{\mathord}
441 \fdsy@DeclareSymbol{\measuredangle}{symbols}{\mathord}
442 \fdsy@DeclareSymbol{\revmeasuredangle}{symbols}{\mathord}
443 \fdsy@DeclareAlias{\measuredangleleft}{symbols}{\mathord}
444 \fdsy@DeclareSymbol{\sphericalangle}{symbols}{\mathord}
445 \fdsy@DeclareSymbol{\sphericalangleup}{symbols}{\mathord}
446 \fdsy@DeclareSymbol{\sphericalangleleft}{symbols}{\mathord}
447 \fdsy@DeclareAlias{\revsphericalangle}{symbols}{\mathord}
448 \fdsy@DeclareAlias{\gtlpar}{symbols}{\mathord}
449 \fdsy@DeclareSymbol{\sphericalangledown}{symbols}{\mathord}
450 \fdsy@DeclareSymbol{\rightangle}{symbols}{\mathord}
451 \fdsy@DeclareSymbol{\measuredrightangle}{symbols}{\mathord}
452 \fdsy@DeclareSymbol{\rightanglesquare}{symbols}{\mathord}
453 \fdsy@DeclareAlias{\rightanglesqr}{symbols}{\mathord}
454 \fdsy@DeclareSymbol{\measuredrightangledot}{symbols}{\mathord}
455 \fdsy@DeclareAlias{\rightanglemdot}{symbols}{\mathord}
456 \fdsy@DeclareSymbol{\prime}{symbols}{\mathord}
457 \fdsy@DeclareSymbol{\backprime}{symbols}{\mathord}
458 \fdsy@DeclareSymbol{\smallprod}{symbols}{\mathop}
459 \fdsy@DeclareSymbol{\smallcoprod}{symbols}{\mathop}
460 \fdsy@DeclareAlias{\amalg}{symbols}{\mathbin}
461 \fdsy@DeclareSymbol{\smallint}{symbols}{\mathop}
462 \fdsy@DeclareSymbol{\checkmark}{symbols}{\mathord}
463 \fdsy@DeclareSymbol{\lightning}{symbols}{\mathord}
464 \fdsy@DeclareAlias{\downzigzagarrow}{symbols}{\mathord}
465 \fdsy@DeclareSymbol{\diamondsuit}{symbols}{\mathord}
466 \fdsy@DeclareSymbol{\vardiamondsuit}{symbols}{\mathord}
467 \fdsy@DeclareSymbol{\heartsuit}{symbols}{\mathord}
468 \fdsy@DeclareSymbol{\varheartsuit}{symbols}{\mathord}
469 \fdsy@DeclareSymbol{\spadesuit}{symbols}{\mathord}
470 \fdsy@DeclareSymbol{\clubsuit}{symbols}{\mathord}
471 \fdsy@DeclareSymbol{\maltese}{symbols}{\mathord}
472 \fdsy@DeclareSymbol{\starofdavid}{symbols}{\mathord}

```

```

473 \fdsy@DeclareSymbol{\sector}{symbols}{\mathord}
474 \fdsy@DeclareSymbol{\forall}{symbols}{\mathord}
475 \fdsy@DeclareSymbol{\exists}{symbols}{\mathord}
476 \fdsy@DeclareSymbol{\nexists}{symbols}{\mathord}
477 \fdsy@DeclareSymbol{\Finv}{symbols}{\mathord}
478 \fdsy@DeclareSymbol{\Game}{symbols}{\mathord}
479 \fdsy@DeclareSymbol{\complement}{symbols}{\mathord}
480 \fdsy@DeclareSymbol{\flat}{symbols}{\mathord}
481 \fdsy@DeclareSymbol{\natural}{symbols}{\mathord}
482 \fdsy@DeclareSymbol{\sharp}{symbols}{\mathord}
483 \fdsy@DeclareSymbol{\aleph}{symbols}{\mathord}
484 \fdsy@DeclareSymbol{\beth}{symbols}{\mathord}
485 \fdsy@DeclareSymbol{\gimel}{symbols}{\mathord}
486 \fdsy@DeclareSymbol{\daleth}{symbols}{\mathord}
487 \fdsy@DeclareSymbol{\wp}{symbols}{\mathord}

FdSymbolB: relations
488 \fdsy@setslot{0}
489 \fdsy@DeclareSymbol{\equal}{relations}{\mathrel}
490 \fdsy@DeclareSymbol{\equiv}{relations}{\mathrel}
491 \fdsy@DeclareSymbol{\sim}{relations}{\mathrel}
492 \fdsy@DeclareSymbol{\backsimeq}{relations}{\mathrel}
493 \fdsy@DeclareSymbol{\approx}{relations}{\mathrel}
494 \fdsy@DeclareSymbol{\triplesim}{relations}{\mathrel}
495 \fdsy@DeclareAlias{\approxident}{relations}{\mathrel}
496 \fdsy@DeclareSymbol{\simeq}{relations}{\mathrel}
497 \fdsy@DeclareSymbol{\backsimeq}{relations}{\mathrel}
498 \fdsy@DeclareSymbol{\eqsim}{relations}{\mathrel}
499 \fdsy@DeclareSymbol{\cong}{relations}{\mathrel}
500 \fdsy@DeclareSymbol{\backcong}{relations}{\mathrel}
501 \fdsy@DeclareSymbol{\approxeq}{relations}{\mathrel}
502 \fdsy@DeclareSymbol{\bumpeq}{relations}{\mathrel}
503 \fdsy@DeclareSymbol{\bumpeq}{relations}{\mathrel}
504 \fdsy@DeclareSymbol{\Bumpeq}{relations}{\mathrel}
505 \fdsy@DeclareSymbol{\doteq}{relations}{\mathrel}
506 \fdsy@DeclareSymbol{\eqdot}{relations}{\mathrel}
507 \fdsy@DeclareSymbol{\Doteq}{relations}{\mathrel}
508 \fdsy@DeclareAlias{\doteqdot}{relations}{\mathrel}
509 \fdsy@DeclareSymbol{\fallingdotseq}{relations}{\mathrel}
510 \fdsy@DeclareSymbol{\risingdotseq}{relations}{\mathrel}
511 \fdsy@DeclareSymbol{\coloneq}{relations}{\mathrel}
512 \fdsy@DeclareAlias{\coloneqq}{relations}{\mathrel}
513 \fdsy@DeclareSymbol{\eqcolon}{relations}{\mathrel}
514 \fdsy@DeclareAlias{\eqqcolon}{relations}{\mathrel}
515 \fdsy@DeclareSymbol{\smile}{relations}{\mathrel}
516 \fdsy@DeclareAlias{\smallsmile}{relations}{\mathrel}

```

```

517 \fdsy@DeclareSymbol{\frown}{relations}{\mathrel}
518 \fdsy@DeclareAlias{\smallfrown}{relations}{\mathrel}
519 \fdsy@DeclareSymbol{\smilefrown}{relations}{\mathrel}
520 \fdsy@DeclareAlias{\asymp}{relations}{\mathrel}
521 \fdsy@DeclareSymbol{\frownsmile}{relations}{\mathrel}
522 \fdsy@DeclareAlias{\closure}{relations}{\mathrel}
523 \fdsy@DeclareSymbol{\smileeq}{relations}{\mathrel}
524 \fdsy@DeclareSymbol{\frowneq}{relations}{\mathrel}
525 \fdsy@DeclareAlias{\arceq}{relations}{\mathrel}
526 \fdsy@DeclareSymbol{\eqcirc}{relations}{\mathrel}
527 \fdsy@DeclareSymbol{\circeq}{relations}{\mathrel}
528 \fdsy@DeclareSymbol{\wedg eq}{relations}{\mathrel}
529 \fdsy@DeclareAlias{\hateq}{relations}{\mathrel}
530 \fdsy@DeclareSymbol{\veeeq}{relations}{\mathrel}
531 \fdsy@DeclareSymbol{\stareq}{relations}{\mathrel}
532 \fdsy@DeclareSymbol{\triangleeq}{relations}{\mathrel}
533 \fdsy@DeclareAlias{\triangleq}{relations}{\mathrel}
534 \fdsy@DeclareSymbol{\in}{relations}{\mathrel}
535 \fdsy@DeclareSymbol{\owns}{relations}{\mathrel}
536 \fdsy@DeclareAlias{\ni}{relations}{\mathrel}
537 \fdsy@DeclareSymbol{\less}{relations}{\mathrel}
538 \fdsy@DeclareSymbol{\gtr}{relations}{\mathrel}
539 \fdsy@DeclareSymbol{\leq}{relations}{\mathrel}
540 \fdsy@DeclareAlias{\le}{relations}{\mathrel}
541 \fdsy@DeclareSymbol{\geq}{relations}{\mathrel}
542 \fdsy@DeclareAlias{\ge}{relations}{\mathrel}
543 \fdsy@DeclareSymbol{\leqslant}{relations}{\mathrel}
544 \fdsy@DeclareSymbol{\geqslant}{relations}{\mathrel}
545 \fdsy@DeclareSymbol{\leqq}{relations}{\mathrel}
546 \fdsy@DeclareSymbol{\geqq}{relations}{\mathrel}
547 \fdsy@DeclareSymbol{\lesssim}{relations}{\mathrel}
548 \fdsy@DeclareSymbol{\gtrsim}{relations}{\mathrel}
549 \fdsy@DeclareSymbol{\lessapprox}{relations}{\mathrel}
550 \fdsy@DeclareSymbol{\gtrapprox}{relations}{\mathrel}
551 \fdsy@DeclareSymbol{\lessgtr}{relations}{\mathrel}
552 \fdsy@DeclareSymbol{\gtrless}{relations}{\mathrel}
553 \fdsy@DeclareSymbol{\lesseqgtr}{relations}{\mathrel}
554 \fdsy@DeclareSymbol{\gtreqless}{relations}{\mathrel}
555 \fdsy@DeclareSymbol{\lesseqqgtr}{relations}{\mathrel}
556 \fdsy@DeclareSymbol{\gtreqqless}{relations}{\mathrel}
557 \fdsy@DeclareSymbol{\lesseqslantgtr}{relations}{\mathrel}
558 \fdsy@DeclareAlias{\lesg}{relations}{\mathrel}
559 \fdsy@DeclareAlias{\lesseqgtrslant}{relations}{\mathrel}
560 \fdsy@DeclareSymbol{\gtreqslantless}{relations}{\mathrel}
561 \fdsy@DeclareAlias{\gesl}{relations}{\mathrel}

```

```

562 \fdsy@DeclareAlias{\gtreqlesslant}{relations}{\mathrel}
563 \fdsy@DeclareSymbol{\ll}{relations}{\mathrel}
564 \fdsy@DeclareSymbol{\gg}{relations}{\mathrel}
565 \fdsy@DeclareSymbol{\lll}{relations}{\mathrel}
566 \fdsy@DeclareAlias{\llless}{relations}{\mathrel}
567 \fdsy@DeclareSymbol{\ggg}{relations}{\mathrel}
568 \fdsy@DeclareAlias{\gggtr}{relations}{\mathrel}
569 \fdsy@DeclareSymbol{\lessclosed}{relations}{\mathrel}
570 \fdsy@DeclareAlias{\lhd}{relations}{\mathbin}
571 \fdsy@DeclareAlias{\vartriangleleft}{relations}{\mathrel}
572 \fdsy@DeclareSymbol{\gtrclosed}{relations}{\mathrel}
573 \fdsy@DeclareAlias{\rhd}{relations}{\mathbin}
574 \fdsy@DeclareAlias{\vartriangleright}{relations}{\mathrel}
575 \fdsy@DeclareSymbol{\leqclosed}{relations}{\mathrel}
576 \fdsy@DeclareAlias{\unlhd}{relations}{\mathbin}
577 \fdsy@DeclareAlias{\trianglelefteq}{relations}{\mathrel}
578 \fdsy@DeclareSymbol{\geqclosed}{relations}{\mathrel}
579 \fdsy@DeclareAlias{\unrhd}{relations}{\mathbin}
580 \fdsy@DeclareAlias{\trianglerighteq}{relations}{\mathrel}
581 \fdsy@DeclareSymbol{\lesscc}{relations}{\mathrel}
582 \fdsy@DeclareAlias{\ltcc}{relations}{\mathrel}
583 \fdsy@DeclareSymbol{\gtrcc}{relations}{\mathrel}
584 \fdsy@DeclareAlias{\gtcc}{relations}{\mathrel}
585 \fdsy@DeclareSymbol{\leqslcc}{relations}{\mathrel}
586 \fdsy@DeclareAlias{\lescc}{relations}{\mathrel}
587 \fdsy@DeclareSymbol{\geqslcc}{relations}{\mathrel}
588 \fdsy@DeclareAlias{\gescc}{relations}{\mathrel}
589 \fdsy@DeclareSymbol{\sqsubset}{relations}{\mathrel}
590 \fdsy@DeclareSymbol{\sqsupset}{relations}{\mathrel}
591 \fdsy@DeclareSymbol{\sqsubseteq}{relations}{\mathrel}
592 \fdsy@DeclareSymbol{\sqsupseteq}{relations}{\mathrel}
593 \fdsy@DeclareSymbol{\sqsubseteqq}{relations}{\mathrel}
594 \fdsy@DeclareSymbol{\sqsupseteqq}{relations}{\mathrel}
595 \fdsy@DeclareSymbol{\Sqsubset}{relations}{\mathrel}
596 \fdsy@DeclareSymbol{\Sqsupset}{relations}{\mathrel}
597 \fdsy@DeclareSymbol{\subset}{relations}{\mathrel}
598 \fdsy@DeclareSymbol{\supset}{relations}{\mathrel}
599 \fdsy@DeclareSymbol{\subseteq}{relations}{\mathrel}
600 \fdsy@DeclareSymbol{\supseteq}{relations}{\mathrel}
601 \fdsy@DeclareSymbol{\subseteqq}{relations}{\mathrel}
602 \fdsy@DeclareSymbol{\supseteqq}{relations}{\mathrel}
603 \fdsy@DeclareSymbol{\Subset}{relations}{\mathrel}
604 \fdsy@DeclareSymbol{\Supset}{relations}{\mathrel}
605 \fdsy@DeclareSymbol{\prec}{relations}{\mathrel}
606 \fdsy@DeclareSymbol{\succ}{relations}{\mathrel}

```



```

607 \fdsy@DeclareSymbol{\preceq}{relations}{\mathrel}
608 \fdsy@DeclareSymbol{\succeq}{relations}{\mathrel}
609 \fdsy@DeclareSymbol{\preccurlyeq}{relations}{\mathrel}
610 \fdsy@DeclareSymbol{\succcurlyeq}{relations}{\mathrel}
611 \fdsy@DeclareSymbol{\preceqq}{relations}{\mathrel}
612 \fdsy@DeclareSymbol{\succeqq}{relations}{\mathrel}
613 \fdsy@DeclareSymbol{\precsim}{relations}{\mathrel}
614 \fdsy@DeclareSymbol{\succsim}{relations}{\mathrel}
615 \fdsy@DeclareSymbol{\precapprox}{relations}{\mathrel}
616 \fdsy@DeclareSymbol{\succapprox}{relations}{\mathrel}
617 \fdsy@DeclareSymbol{\lessdot}{relations}{\mathrel}
618 \fdsy@DeclareSymbol{\gtrdot}{relations}{\mathrel}
619 \fdsy@DeclareSymbol{\leqdot}{relations}{\mathrel}
620 \fdsy@DeclareSymbol{\geqdot}{relations}{\mathrel}
621 \fdsy@DeclareSymbol{\leqslantdot}{relations}{\mathrel}
622 \fdsy@DeclareAlias{\lesdot}{relations}{\mathrel}
623 \fdsy@DeclareSymbol{\geqslantdot}{relations}{\mathrel}
624 \fdsy@DeclareAlias{\gesdot}{relations}{\mathrel}
625 \fdsy@DeclareSymbol{\eqslantless}{relations}{\mathrel}
626 \fdsy@DeclareSymbol{\eqslantgtr}{relations}{\mathrel}
627 \fdsy@DeclareSymbol{\curlyeqprec}{relations}{\mathrel}
628 \fdsy@DeclareSymbol{\curlyeqsucc}{relations}{\mathrel}
629 \fdsy@DeclareSymbol{\nequal}{relations}{\mathrel}
630 \fdsy@DeclareAlias{\neq}{relations}{\mathrel}
631 \fdsy@DeclareAlias{\ne}{relations}{\mathrel}
632 \fdsy@DeclareSymbol{\nequiv}{relations}{\mathrel}
633 \fdsy@DeclareSymbol{\nsim}{relations}{\mathrel}
634 \fdsy@DeclareSymbol{\nbacksim}{relations}{\mathrel}
635 \fdsy@DeclareSymbol{\napprox}{relations}{\mathrel}
636 \fdsy@DeclareSymbol{\ntriplesim}{relations}{\mathrel}
637 \fdsy@DeclareAlias{\napproxident}{relations}{\mathrel}
638 \fdsy@DeclareSymbol{\nsimeq}{relations}{\mathrel}
639 \fdsy@DeclareAlias{\nsime}{relations}{\mathrel}
640 \fdsy@DeclareSymbol{\nbacksimeq}{relations}{\mathrel}
641 \fdsy@DeclareSymbol{\neqsim}{relations}{\mathrel}
642 \fdsy@DeclareSymbol{\ncong}{relations}{\mathrel}
643 \fdsy@DeclareSymbol{\nbackcong}{relations}{\mathrel}
644 \fdsy@DeclareSymbol{\napproxeq}{relations}{\mathrel}
645 \fdsy@DeclareSymbol{\nbumpeq}{relations}{\mathrel}
646 \fdsy@DeclareSymbol{\nbumpeq}{relations}{\mathrel}
647 \fdsy@DeclareSymbol{\nbumpeq}{relations}{\mathrel}
648 \fdsy@DeclareSymbol{\ndoteq}{relations}{\mathrel}
649 \fdsy@DeclareSymbol{\neqdot}{relations}{\mathrel}
650 \fdsy@DeclareSymbol{\nDoteq}{relations}{\mathrel}
651 \fdsy@DeclareSymbol{\nfallingdotseq}{relations}{\mathrel}

```

```

652 \fdsy@DeclareSymbol{\nrisingdotseq}{relations}{\mathrel}
653 \fdsy@DeclareSymbol{\nsmile}{relations}{\mathrel}
654 \fdsy@DeclareSymbol{\nfrown}{relations}{\mathrel}
655 \fdsy@DeclareSymbol{\nsmilefrown}{relations}{\mathrel}
656 \fdsy@DeclareAlias{\nasymp}{relations}{\mathrel}
657 \fdsy@DeclareSymbol{\nfrownsmile}{relations}{\mathrel}
658 \fdsy@DeclareAlias{\nclosure}{relations}{\mathrel}
659 \fdsy@DeclareSymbol{\nsmileeq}{relations}{\mathrel}
660 \fdsy@DeclareSymbol{\nfrowneq}{relations}{\mathrel}
661 \fdsy@DeclareAlias{\narceq}{relations}{\mathrel}
662 \fdsy@DeclareSymbol{\neqcirc}{relations}{\mathrel}
663 \fdsy@DeclareSymbol{\ncirceq}{relations}{\mathrel}
664 \fdsy@DeclareSymbol{\nwedgeq}{relations}{\mathrel}
665 \fdsy@DeclareAlias{\nhateq}{relations}{\mathrel}
666 \fdsy@DeclareSymbol{\nveeeq}{relations}{\mathrel}
667 \fdsy@DeclareSymbol{\nstareq}{relations}{\mathrel}
668 \fdsy@DeclareSymbol{\ntriangleeq}{relations}{\mathrel}
669 \fdsy@DeclareSymbol{\nin}{relations}{\mathrel}
670 \fdsy@DeclareAlias{\notin}{relations}{\mathrel}
671 \fdsy@DeclareSymbol{\nowns}{relations}{\mathrel}
672 \fdsy@DeclareAlias{\nni}{relations}{\mathrel}
673 \fdsy@DeclareSymbol{\nless}{relations}{\mathrel}
674 \fdsy@DeclareSymbol{\ngtr}{relations}{\mathrel}
675 \fdsy@DeclareSymbol{\nleq}{relations}{\mathrel}
676 \fdsy@DeclareSymbol{\ngeq}{relations}{\mathrel}
677 \fdsy@DeclareSymbol{\nleqslant}{relations}{\mathrel}
678 \fdsy@DeclareSymbol{\ngeqslant}{relations}{\mathrel}
679 \fdsy@DeclareSymbol{\nleqq}{relations}{\mathrel}
680 \fdsy@DeclareSymbol{\ngeqq}{relations}{\mathrel}
681 \fdsy@DeclareSymbol{\nlesssim}{relations}{\mathrel}
682 \fdsy@DeclareSymbol{\ngtrsim}{relations}{\mathrel}
683 \fdsy@DeclareSymbol{\nlessapprox}{relations}{\mathrel}
684 \fdsy@DeclareSymbol{\ngtrapprox}{relations}{\mathrel}
685 \fdsy@DeclareSymbol{\nlessgtr}{relations}{\mathrel}
686 \fdsy@DeclareSymbol{\ngtrless}{relations}{\mathrel}
687 \fdsy@DeclareSymbol{\nlesseqgtr}{relations}{\mathrel}
688 \fdsy@DeclareSymbol{\ngtreqlless}{relations}{\mathrel}
689 \fdsy@DeclareSymbol{\nlesseqqgtr}{relations}{\mathrel}
690 \fdsy@DeclareSymbol{\ngtreqqless}{relations}{\mathrel}
691 \fdsy@DeclareSymbol{\nlesseqslantgtr}{relations}{\mathrel}
692 \fdsy@DeclareAlias{\nlesg}{relations}{\mathrel}
693 \fdsy@DeclareAlias{\nlesseqgtrslant}{relations}{\mathrel}
694 \fdsy@DeclareSymbol{\ngtreqslantless}{relations}{\mathrel}
695 \fdsy@DeclareAlias{\ngesl}{relations}{\mathrel}
696 \fdsy@DeclareAlias{\ngtreqlessslant}{relations}{\mathrel}

```

```

697 \fdsy@DeclareSymbol{\nll}{relations}{\mathrel}
698 \fdsy@DeclareSymbol{\ngg}{relations}{\mathrel}
699 \fdsy@DeclareSymbol{\nlll}{relations}{\mathrel}
700 \fdsy@DeclareSymbol{\nggg}{relations}{\mathrel}
701 \fdsy@DeclareSymbol{\nlessclosed}{relations}{\mathrel}
702 \fdsy@DeclareAlias{\ntriangleleft}{relations}{\mathrel}
703 \fdsy@DeclareSymbol{\ngtrclosed}{relations}{\mathrel}
704 \fdsy@DeclareAlias{\ntriangleright}{relations}{\mathrel}
705 \fdsy@DeclareSymbol{\nleqclosed}{relations}{\mathrel}
706 \fdsy@DeclareAlias{\ntrianglelefteq}{relations}{\mathrel}
707 \fdsy@DeclareSymbol{\ngeqclosed}{relations}{\mathrel}
708 \fdsy@DeclareAlias{\ntrianglerighteq}{relations}{\mathrel}
709 \fdsy@DeclareSymbol{\nlesscc}{relations}{\mathrel}
710 \fdsy@DeclareAlias{\nltcc}{relations}{\mathrel}
711 \fdsy@DeclareSymbol{\ngtrcc}{relations}{\mathrel}
712 \fdsy@DeclareAlias{\ngtcc}{relations}{\mathrel}
713 \fdsy@DeclareSymbol{\nleqslcc}{relations}{\mathrel}
714 \fdsy@DeclareAlias{\nlescc}{relations}{\mathrel}
715 \fdsy@DeclareSymbol{\ngeqslcc}{relations}{\mathrel}
716 \fdsy@DeclareAlias{\ngescc}{relations}{\mathrel}
717 \fdsy@DeclareSymbol{\nsqsubset}{relations}{\mathrel}
718 \fdsy@DeclareSymbol{\nsqsupset}{relations}{\mathrel}
719 \fdsy@DeclareSymbol{\nsqsubteq}{relations}{\mathrel}
720 \fdsy@DeclareSymbol{\nsqsupseteq}{relations}{\mathrel}
721 \fdsy@DeclareSymbol{\nsqsubseteq}{relations}{\mathrel}
722 \fdsy@DeclareSymbol{\nsqsupseteqq}{relations}{\mathrel}
723 \fdsy@DeclareSymbol{\nSqsubset}{relations}{\mathrel}
724 \fdsy@DeclareSymbol{\nSqsupset}{relations}{\mathrel}
725 \fdsy@DeclareSymbol{\nsubset}{relations}{\mathrel}
726 \fdsy@DeclareSymbol{\nsupset}{relations}{\mathrel}
727 \fdsy@DeclareSymbol{\nsubseteq}{relations}{\mathrel}
728 \fdsy@DeclareSymbol{\nsupseteq}{relations}{\mathrel}
729 \fdsy@DeclareSymbol{\nsubseteqq}{relations}{\mathrel}
730 \fdsy@DeclareSymbol{\nsupseteqq}{relations}{\mathrel}
731 \fdsy@DeclareSymbol{\nSubset}{relations}{\mathrel}
732 \fdsy@DeclareSymbol{\nSupset}{relations}{\mathrel}
733 \fdsy@DeclareSymbol{\nprec}{relations}{\mathrel}
734 \fdsy@DeclareSymbol{\nsucc}{relations}{\mathrel}
735 \fdsy@DeclareSymbol{\npreceq}{relations}{\mathrel}
736 \fdsy@DeclareSymbol{\nsucceq}{relations}{\mathrel}
737 \fdsy@DeclareSymbol{\npreccurlyeq}{relations}{\mathrel}
738 \fdsy@DeclareSymbol{\nsucccurlyeq}{relations}{\mathrel}
739 \fdsy@DeclareSymbol{\npreceqq}{relations}{\mathrel}
740 \fdsy@DeclareSymbol{\nsucceqq}{relations}{\mathrel}
741 \fdsy@DeclareSymbol{\nprecsim}{relations}{\mathrel}

```

```

742 \fdsy@DeclareSymbol{\nsuccsim}{relations}{\mathrel}
743 \fdsy@DeclareSymbol{\nprecapprox}{relations}{\mathrel}
744 \fdsy@DeclareSymbol{\nsuccapprox}{relations}{\mathrel}
745 \fdsy@DeclareSymbol{\nlessdot}{relations}{\mathrel}
746 \fdsy@DeclareSymbol{\ngtrdot}{relations}{\mathrel}
747 \fdsy@DeclareSymbol{\nleqdot}{relations}{\mathrel}
748 \fdsy@DeclareSymbol{\ngeqdot}{relations}{\mathrel}
749 \fdsy@DeclareSymbol{\nleqslantdot}{relations}{\mathrel}
750 \fdsy@DeclareAlias{\nlesdot}{relations}{\mathrel}
751 \fdsy@DeclareSymbol{\ngeqslantdot}{relations}{\mathrel}
752 \fdsy@DeclareAlias{\ngesdot}{relations}{\mathrel}
753 \fdsy@DeclareSymbol{\neqslantless}{relations}{\mathrel}
754 \fdsy@DeclareSymbol{\neqslantgtr}{relations}{\mathrel}
755 \fdsy@DeclareSymbol{\ncurlyeqprec}{relations}{\mathrel}
756 \fdsy@DeclareSymbol{\ncurlyeqsucc}{relations}{\mathrel}
757 \fdsy@DeclareSymbol{\simneqq}{relations}{\mathrel}
758 \fdsy@DeclareSymbol{\backsimneqq}{relations}{\mathrel}
759 \fdsy@DeclareSymbol{\lneq}{relations}{\mathrel}
760 \fdsy@DeclareSymbol{\gneq}{relations}{\mathrel}
761 \fdsy@DeclareSymbol{\lneqq}{relations}{\mathrel}
762 \fdsy@DeclareAlias{\lvertneqq}{relations}{\mathrel}
763 \fdsy@DeclareSymbol{\gneqq}{relations}{\mathrel}
764 \fdsy@DeclareAlias{\gvertneqq}{relations}{\mathrel}
765 \fdsy@DeclareSymbol{\lnsim}{relations}{\mathrel}
766 \fdsy@DeclareSymbol{\gnsim}{relations}{\mathrel}
767 \fdsy@DeclareSymbol{\lnapprox}{relations}{\mathrel}
768 \fdsy@DeclareSymbol{\gnapprox}{relations}{\mathrel}
769 \fdsy@DeclareSymbol{\sqsubsetneq}{relations}{\mathrel}
770 \fdsy@DeclareSymbol{\sqsupsetneq}{relations}{\mathrel}
771 \fdsy@DeclareSymbol{\sqsubsetneqq}{relations}{\mathrel}
772 \fdsy@DeclareSymbol{\sqsupsetneqq}{relations}{\mathrel}
773 \fdsy@DeclareSymbol{\subsetneq}{relations}{\mathrel}
774 \fdsy@DeclareAlias{\varsubsetneq}{relations}{\mathrel}
775 \fdsy@DeclareSymbol{\supsetneq}{relations}{\mathrel}
776 \fdsy@DeclareAlias{\varsupsetneq}{relations}{\mathrel}
777 \fdsy@DeclareSymbol{\subsetneqq}{relations}{\mathrel}
778 \fdsy@DeclareAlias{\varsubsetneqq}{relations}{\mathrel}
779 \fdsy@DeclareSymbol{\supsetneqq}{relations}{\mathrel}
780 \fdsy@DeclareAlias{\varsupsetneqq}{relations}{\mathrel}
781 \fdsy@DeclareSymbol{\precneq}{relations}{\mathrel}
782 \fdsy@DeclareSymbol{\succneq}{relations}{\mathrel}
783 \fdsy@DeclareSymbol{\precneqq}{relations}{\mathrel}
784 \fdsy@DeclareSymbol{\succneqq}{relations}{\mathrel}
785 \fdsy@DeclareSymbol{\precnsim}{relations}{\mathrel}
786 \fdsy@DeclareSymbol{\succnsim}{relations}{\mathrel}

```

```

787 \fdsy@DeclareSymbol{\precnapprox}{relations}{\mathrel}
788 \fdsy@DeclareSymbol{\succnapprox}{relations}{\mathrel}

FdSymbolC: arrows and turnstile symbols
789 \fdsy@setslot{0}
790 \fdsy@DeclareSymbol{\rightarrow}{arrows}{\mathrel}
791 \fdsy@DeclareAlias{\to}{arrows}{\mathrel}
792 \fdsy@DeclareSymbol{\uparrow}{arrows}{\mathrel}
793 \fdsy@DeclareSymbol{\leftarrow}{arrows}{\mathrel}
794 \fdsy@DeclareAlias{\gets}{arrows}{\mathrel}
795 \fdsy@DeclareSymbol{\downarrow}{arrows}{\mathrel}
796 \fdsy@DeclareSymbol{\nearrow}{arrows}{\mathrel}
797 \fdsy@DeclareSymbol{\nwarrow}{arrows}{\mathrel}
798 \fdsy@DeclareSymbol{\swarrow}{arrows}{\mathrel}
799 \fdsy@DeclareSymbol{\searrow}{arrows}{\mathrel}
800 \fdsy@DeclareSymbol{\Rightarrow}{arrows}{\mathrel}
801 \fdsy@DeclareSymbol{\Uparrow}{arrows}{\mathrel}
802 \fdsy@DeclareSymbol{\Leftarrow}{arrows}{\mathrel}
803 \fdsy@DeclareSymbol{\Downarrow}{arrows}{\mathrel}
804 \fdsy@DeclareSymbol{\Nearrow}{arrows}{\mathrel}
805 \fdsy@DeclareSymbol{\Nwarrow}{arrows}{\mathrel}
806 \fdsy@DeclareSymbol{\Swarrow}{arrows}{\mathrel}
807 \fdsy@DeclareSymbol{\Searrow}{arrows}{\mathrel}
808 \fdsy@DeclareSymbol{\leftrightharpoonup}{arrows}{\mathrel}
809 \fdsy@DeclareSymbol{\updownarrow}{arrows}{\mathrel}
810 \fdsy@DeclareSymbol{\neswarpoonup}{arrows}{\mathrel}
811 \fdsy@DeclareSymbol{\nwsearrow}{arrows}{\mathrel}
812 \fdsy@DeclareSymbol{\Leftrightarrow}{arrows}{\mathrel}
813 \fdsy@DeclareSymbol{\Updownarrow}{arrows}{\mathrel}
814 \fdsy@DeclareSymbol{\Neswarpoonup}{arrows}{\mathrel}
815 \fdsy@DeclareSymbol{\Nwsearrow}{arrows}{\mathrel}
816 \fdsy@DeclareSymbol{\twoheadrightarrow}{arrows}{\mathrel}
817 \fdsy@DeclareSymbol{\twoheaduparrow}{arrows}{\mathrel}
818 \fdsy@DeclareSymbol{\twoheadleftarrow}{arrows}{\mathrel}
819 \fdsy@DeclareSymbol{\twoheaddownarrow}{arrows}{\mathrel}
820 \fdsy@DeclareSymbol{\twoheadnearrow}{arrows}{\mathrel}
821 \fdsy@DeclareSymbol{\twoheadnwarrow}{arrows}{\mathrel}
822 \fdsy@DeclareSymbol{\twoheadswarrow}{arrows}{\mathrel}
823 \fdsy@DeclareSymbol{\twoheadsearrow}{arrows}{\mathrel}
824 \fdsy@DeclareSymbol{\rightarrowtail}{arrows}{\mathrel}
825 \fdsy@DeclareSymbol{\uparrowtail}{arrows}{\mathrel}
826 \fdsy@DeclareSymbol{\leftarrowtail}{arrows}{\mathrel}
827 \fdsy@DeclareSymbol{\downarrowtail}{arrows}{\mathrel}
828 \fdsy@DeclareSymbol{\nearrowtail}{arrows}{\mathrel}
829 \fdsy@DeclareSymbol{\nwarrowtail}{arrows}{\mathrel}
830 \fdsy@DeclareSymbol{\swarrowtail}{arrows}{\mathrel}

```

```

831 \fdsy@DeclareSymbol{\searrowtail}{arrows}{\mathrel}
832 \fdsy@DeclareSymbol{\rightmapsto}{arrows}{\mathrel}
833 \fdsy@DeclareAlias{\mapsto}{arrows}{\mathrel}
834 \fdsy@DeclareSymbol{\upmapsto}{arrows}{\mathrel}
835 \fdsy@DeclareAlias{\mapsup}{arrows}{\mathrel}
836 \fdsy@DeclareSymbol{\leftmapsto}{arrows}{\mathrel}
837 \fdsy@DeclareAlias{\mapsfrom}{arrows}{\mathrel}
838 \fdsy@DeclareSymbol{\downmapsto}{arrows}{\mathrel}
839 \fdsy@DeclareAlias{\mapsdown}{arrows}{\mathrel}
840 \fdsy@DeclareSymbol{\Rightmapsto}{arrows}{\mathrel}
841 \fdsy@DeclareAlias{\Mapsto}{arrows}{\mathrel}
842 \fdsy@DeclareSymbol{\Upmapsto}{arrows}{\mathrel}
843 \fdsy@DeclareAlias{\Mapsup}{arrows}{\mathrel}
844 \fdsy@DeclareSymbol{\Leftmapsto}{arrows}{\mathrel}
845 \fdsy@DeclareAlias{\Mapsfrom}{arrows}{\mathrel}
846 \fdsy@DeclareSymbol{\Downmapsto}{arrows}{\mathrel}
847 \fdsy@DeclareAlias{\Mapsdown}{arrows}{\mathrel}
848 \fdsy@DeclareSymbol{\hookrightarrow}{arrows}{\mathrel}
849 \fdsy@DeclareAlias{\lhookrightarrow}{arrows}{\mathrel}
850 \fdsy@DeclareSymbol{\hookuparrow}{arrows}{\mathrel}
851 \fdsy@DeclareAlias{\lhookuparrow}{arrows}{\mathrel}
852 \fdsy@DeclareSymbol{\varhookleftarrow}{arrows}{\mathrel}
853 \fdsy@DeclareAlias{\lhookleftarrow}{arrows}{\mathrel}
854 \fdsy@DeclareSymbol{\varhookdownarrow}{arrows}{\mathrel}
855 \fdsy@DeclareAlias{\lhookdownarrow}{arrows}{\mathrel}
856 \fdsy@DeclareSymbol{\varhooknearrow}{arrows}{\mathrel}
857 \fdsy@DeclareAlias{\lhooknearrow}{arrows}{\mathrel}
858 \fdsy@DeclareSymbol{\hookrightarrow}{arrows}{\mathrel}
859 \fdsy@DeclareAlias{\hknarrow}{arrows}{\mathrel}
860 \fdsy@DeclareAlias{\lhooknarrow}{arrows}{\mathrel}
861 \fdsy@DeclareSymbol{\varhookswarrow}{arrows}{\mathrel}
862 \fdsy@DeclareAlias{\lhookswarrow}{arrows}{\mathrel}
863 \fdsy@DeclareSymbol{\hooksearrow}{arrows}{\mathrel}
864 \fdsy@DeclareAlias{\hksearrow}{arrows}{\mathrel}
865 \fdsy@DeclareAlias{\lhooksearrow}{arrows}{\mathrel}
866 \fdsy@DeclareSymbol{\varhookrightarrow}{arrows}{\mathrel}
867 \fdsy@DeclareAlias{\rhookrightarrow}{arrows}{\mathrel}
868 \fdsy@DeclareSymbol{\varhookuparrow}{arrows}{\mathrel}
869 \fdsy@DeclareAlias{\rhookuparrow}{arrows}{\mathrel}
870 \fdsy@DeclareSymbol{\hookleftarrow}{arrows}{\mathrel}
871 \fdsy@DeclareAlias{\rhookleftarrow}{arrows}{\mathrel}
872 \fdsy@DeclareSymbol{\hookdownarrow}{arrows}{\mathrel}
873 \fdsy@DeclareAlias{\rhookdownarrow}{arrows}{\mathrel}
874 \fdsy@DeclareSymbol{\hooknearrow}{arrows}{\mathrel}
875 \fdsy@DeclareAlias{\hksearrow}{arrows}{\mathrel}

```

```

876 \fdsy@DeclareAlias{\rhooknearrow}{arrows}{\mathrel}
877 \fdsy@DeclareSymbol{\varhooknwarrow}{arrows}{\mathrel}
878 \fdsy@DeclareAlias{\rhooknwarrow}{arrows}{\mathrel}
879 \fdsy@DeclareSymbol{\hookswarrow}{arrows}{\mathrel}
880 \fdsy@DeclareAlias{\hkswarrow}{arrows}{\mathrel}
881 \fdsy@DeclareAlias{\rhookswarrow}{arrows}{\mathrel}
882 \fdsy@DeclareSymbol{\varhooksearrow}{arrows}{\mathrel}
883 \fdsy@DeclareAlias{\rhooksearrow}{arrows}{\mathrel}
884 \fdsy@DeclareSymbol{\rightharpoonup}{arrows}{\mathrel}
885 \fdsy@DeclareSymbol{\upharpoonleft}{arrows}{\mathrel}
886 \fdsy@DeclareSymbol{\leftharpoondown}{arrows}{\mathrel}
887 \fdsy@DeclareSymbol{\downharpoonright}{arrows}{\mathrel}
888 \fdsy@DeclareSymbol{\neharpoonnw}{arrows}{\mathrel}
889 \fdsy@DeclareSymbol{\nwharpoonsw}{arrows}{\mathrel}
890 \fdsy@DeclareSymbol{\swharpoonse}{arrows}{\mathrel}
891 \fdsy@DeclareSymbol{\seharpoonne}{arrows}{\mathrel}
892 \fdsy@DeclareSymbol{\rightharpoondown}{arrows}{\mathrel}
893 \fdsy@DeclareSymbol{\upharpoonright}{arrows}{\mathrel}
894 \fdsy@DeclareAlias{\restriction}{arrows}{\mathrel}
895 \fdsy@DeclareSymbol{\leftharpoonup}{arrows}{\mathrel}
896 \fdsy@DeclareSymbol{\downharpoonleft}{arrows}{\mathrel}
897 \fdsy@DeclareSymbol{\neharpoonse}{arrows}{\mathrel}
898 \fdsy@DeclareSymbol{\nwharpoonne}{arrows}{\mathrel}
899 \fdsy@DeclareSymbol{\swharpoonnw}{arrows}{\mathrel}
900 \fdsy@DeclareSymbol{\seharpoonsw}{arrows}{\mathrel}
901 \fdsy@DeclareSymbol{\leftrightharpoonupdown}{arrows}{\mathrel}
902 \fdsy@DeclareSymbol{\updownharpoonleftright}{arrows}{\mathrel}
903 \fdsy@DeclareSymbol{\neswharpoonnwse}{arrows}{\mathrel}
904 \fdsy@DeclareSymbol{\nwseharpoonnesw}{arrows}{\mathrel}
905 \fdsy@DeclareSymbol{\leftrightharpoondownup}{arrows}{\mathrel}
906 \fdsy@DeclareSymbol{\updownharpoonrightleft}{arrows}{\mathrel}
907 \fdsy@DeclareSymbol{\neswharpoonsenw}{arrows}{\mathrel}
908 \fdsy@DeclareSymbol{\nwseharpoonswne}{arrows}{\mathrel}
909 \fdsy@DeclareSymbol{\rightleftharpoons}{arrows}{\mathrel}
910 \fdsy@DeclareSymbol{\updownharpoons}{arrows}{\mathrel}
911 \fdsy@DeclareAlias{\updownharpoonsleftright}{arrows}{\mathrel}
912 \fdsy@DeclareSymbol{\neswharpoons}{arrows}{\mathrel}
913 \fdsy@DeclareSymbol{\senwharpoons}{arrows}{\mathrel}
914 \fdsy@DeclareSymbol{\leftrightharpoons}{arrows}{\mathrel}
915 \fdsy@DeclareSymbol{\downupharpoons}{arrows}{\mathrel}
916 \fdsy@DeclareAlias{\downupharpoonsleftright}{arrows}{\mathrel}
917 \fdsy@DeclareSymbol{\swneharpoons}{arrows}{\mathrel}
918 \fdsy@DeclareSymbol{\nwseharpoons}{arrows}{\mathrel}
919 \fdsy@DeclareSymbol{\rightbkarrow}{arrows}{\mathrel}
920 \fdsy@DeclareAlias{\dasharrow}{arrows}{\mathrel}

```

```

921 \fdsy@DeclareAlias{\dashrightarrow}{arrows}{\mathrel}
922 \fdsy@DeclareSymbol{\upbkarrow}{arrows}{\mathrel}
923 \fdsy@DeclareSymbol{\leftbkarrow}{arrows}{\mathrel}
924 \fdsy@DeclareAlias{\dashleftarrow}{arrows}{\mathrel}
925 \fdsy@DeclareSymbol{\downbkarrow}{arrows}{\mathrel}
926 \fdsy@DeclareSymbol{\nebkarrow}{arrows}{\mathrel}
927 \fdsy@DeclareSymbol{\nwbkarrow}{arrows}{\mathrel}
928 \fdsy@DeclareSymbol{\swbkarrow}{arrows}{\mathrel}
929 \fdsy@DeclareSymbol{\sebkarrow}{arrows}{\mathrel}
930 \fdsy@DeclareSymbol{\rightspoon}{arrows}{\mathrel}
931 \fdsy@DeclareAlias{\multimap}{arrows}{\mathrel}
932 \fdsy@DeclareSymbol{\upspoon}{arrows}{\mathrel}
933 \fdsy@DeclareAlias{\circmid}{arrows}{\mathrel}
934 \fdsy@DeclareSymbol{\leftspoon}{arrows}{\mathrel}
935 \fdsy@DeclareAlias{\multimapinv}{arrows}{\mathrel}
936 \fdsy@DeclareSymbol{\downspoon}{arrows}{\mathrel}
937 \fdsy@DeclareAlias{\midcir}{arrows}{\mathrel}
938 \fdsy@DeclareSymbol{\rightblackspoon}{arrows}{\mathrel}
939 \fdsy@DeclareSymbol{\upblackspoon}{arrows}{\mathrel}
940 \fdsy@DeclareSymbol{\leftblackspoon}{arrows}{\mathrel}
941 \fdsy@DeclareSymbol{\downblackspoon}{arrows}{\mathrel}
942 \fdsy@DeclareSymbol{\leftrightarrow}{arrows}{\mathrel}
943 \fdsy@DeclareAlias{\dualmap}{arrows}{\mathrel}
944 \fdsy@DeclareSymbol{\leftrighthblackspoon}{arrows}{\mathrel}
945 \fdsy@DeclareSymbol{\blackwhitespoon}{arrows}{\mathrel}
946 \fdsy@DeclareAlias{\imageof}{arrows}{\mathrel}
947 \fdsy@DeclareSymbol{\whiteblackspoon}{arrows}{\mathrel}
948 \fdsy@DeclareAlias{\origof}{arrows}{\mathrel}
949 \fdsy@DeclareSymbol{\rightpitchfork}{arrows}{\mathrel}
950 \fdsy@DeclareSymbol{\uppitchfork}{arrows}{\mathrel}
951 \fdsy@DeclareAlias{\pitchfork}{arrows}{\mathrel}
952 \fdsy@DeclareSymbol{\leftpitchfork}{arrows}{\mathrel}
953 \fdsy@DeclareSymbol{\downpitchfork}{arrows}{\mathrel}
954 \fdsy@DeclareSymbol{\rightrightarrows}{arrows}{\mathrel}
955 \fdsy@DeclareSymbol{\upuparrows}{arrows}{\mathrel}
956 \fdsy@DeclareSymbol{\leftleftarrows}{arrows}{\mathrel}
957 \fdsy@DeclareSymbol{\downdownarrows}{arrows}{\mathrel}
958 \fdsy@DeclareSymbol{\nenearrows}{arrows}{\mathrel}
959 \fdsy@DeclareSymbol{\nwnwarrows}{arrows}{\mathrel}
960 \fdsy@DeclareSymbol{\swswarrows}{arrows}{\mathrel}
961 \fdsy@DeclareSymbol{\sesearrows}{arrows}{\mathrel}
962 \fdsy@DeclareSymbol{\rightleftarrows}{arrows}{\mathrel}
963 \fdsy@DeclareSymbol{\updownarrows}{arrows}{\mathrel}
964 \fdsy@DeclareSymbol{\neswarrows}{arrows}{\mathrel}
965 \fdsy@DeclareSymbol{\nwsearrows}{arrows}{\mathrel}

```



```

966 \fdsy@DeclareSymbol{\leftrightharpoons}{arrows}{\mathrel}
967 \fdsy@DeclareSymbol{\downuparrows}{arrows}{\mathrel}
968 \fdsy@DeclareSymbol{\swnearrows}{arrows}{\mathrel}
969 \fdsy@DeclareSymbol{\senwarrows}{arrows}{\mathrel}
970 \fdsy@DeclareSymbol{\rightwvearrow}{arrows}{\mathrel}
971 \fdsy@DeclareAlias{\leadsto}{arrows}{\mathrel}
972 \fdsy@DeclareAlias{\rightsquigarrow}{arrows}{\mathrel}
973 \fdsy@DeclareAlias{\rightcurvedarrow}{arrows}{\mathrel}
974 \fdsy@DeclareAlias{\rightlsquigarrow}{arrows}{\mathrel}
975 \fdsy@DeclareSymbol{\varupwvearrow}{arrows}{\mathrel}
976 \fdsy@DeclareAlias{\uplsquigarrow}{arrows}{\mathrel}
977 \fdsy@DeclareSymbol{\varleftwvearrow}{arrows}{\mathrel}
978 \fdsy@DeclareAlias{\leftlsquigarrow}{arrows}{\mathrel}
979 \fdsy@DeclareSymbol{\downwvearrow}{arrows}{\mathrel}
980 \fdsy@DeclareAlias{\downlsquigarrow}{arrows}{\mathrel}
981 \fdsy@DeclareSymbol{\varrightwvearrow}{arrows}{\mathrel}
982 \fdsy@DeclareAlias{\rightrsquigarrow}{arrows}{\mathrel}
983 \fdsy@DeclareSymbol{\upwvearrow}{arrows}{\mathrel}
984 \fdsy@DeclareAlias{\uprsquigarrow}{arrows}{\mathrel}
985 \fdsy@DeclareSymbol{\leftwvearrow}{arrows}{\mathrel}
986 \fdsy@DeclareAlias{\leftsquigarrow}{arrows}{\mathrel}
987 \fdsy@DeclareAlias{\leftcurvedarrow}{arrows}{\mathrel}
988 \fdsy@DeclareAlias{\leftrsquigarrow}{arrows}{\mathrel}
989 \fdsy@DeclareSymbol{\vardownwvearrow}{arrows}{\mathrel}
990 \fdsy@DeclareAlias{\downrsquigarrow}{arrows}{\mathrel}
991 \fdsy@DeclareSymbol{\leftrightwvearrow}{arrows}{\mathrel}
992 \fdsy@DeclareAlias{\leftrightsquigarrow}{arrows}{\mathrel}
993 \fdsy@DeclareSymbol{\updownwvearrow}{arrows}{\mathrel}
994 \fdsy@DeclareAlias{\updownsquigarrow}{arrows}{\mathrel}
995 \fdsy@DeclareSymbol{\varleftrightwvearrow}{arrows}{\mathrel}
996 \fdsy@DeclareAlias{\rightleftsquigarrow}{arrows}{\mathrel}
997 \fdsy@DeclareSymbol{\varupdownwvearrow}{arrows}{\mathrel}
998 \fdsy@DeclareAlias{\downupsquigarrow}{arrows}{\mathrel}
999 \fdsy@DeclareSymbol{\cwoverarccarrow}{arrows}{\mathrel}
1000 \fdsy@DeclareAlias{\curvearrowright}{arrows}{\mathrel}
1001 \fdsy@DeclareAlias{\rightlcurvearrow}{arrows}{\mathrel}
1002 \fdsy@DeclareSymbol{\cwleftarccarrow}{arrows}{\mathrel}
1003 \fdsy@DeclareAlias{\uplcurvearrow}{arrows}{\mathrel}
1004 \fdsy@DeclareSymbol{\cwunderarccarrow}{arrows}{\mathrel}
1005 \fdsy@DeclareAlias{\leftlcurvearrow}{arrows}{\mathrel}
1006 \fdsy@DeclareSymbol{\cwrightarccarrow}{arrows}{\mathrel}
1007 \fdsy@DeclareAlias{\downlcurvearrow}{arrows}{\mathrel}
1008 \fdsy@DeclareSymbol{\cwnwarccarrow}{arrows}{\mathrel}
1009 \fdsy@DeclareAlias{\rightupcurvedarrow}{arrows}{\mathrel}
1010 \fdsy@DeclareAlias{\nelcurvearrow}{arrows}{\mathrel}

```

```

1011 \fdsy@DeclareSymbol{\cswarcarrow}{arrows}{\mathrel}
1012 \fdsy@DeclareAlias{\upleftcurvedarrow}{arrows}{\mathrel}
1013 \fdsy@DeclareAlias{\nwlcurevarrow}{arrows}{\mathrel}
1014 \fdsy@DeclareSymbol{\cwsearcarrow}{arrows}{\mathrel}
1015 \fdsy@DeclareAlias{\leftdowncurvedarrow}{arrows}{\mathrel}
1016 \fdsy@DeclareAlias{\swlcurevarrow}{arrows}{\mathrel}
1017 \fdsy@DeclareSymbol{\cwnearcarrow}{arrows}{\mathrel}
1018 \fdsy@DeclareAlias{\downrightcurvedarrow}{arrows}{\mathrel}
1019 \fdsy@DeclareAlias{\selcurevarrow}{arrows}{\mathrel}
1020 \fdsy@DeclareSymbol{\acwunderarcarrow}{arrows}{\mathrel}
1021 \fdsy@DeclareAlias{\rightrcurevarrow}{arrows}{\mathrel}
1022 \fdsy@DeclareSymbol{\acwrightarcarrow}{arrows}{\mathrel}
1023 \fdsy@DeclareAlias{\uprcurevarrow}{arrows}{\mathrel}
1024 \fdsy@DeclareSymbol{\acwoverarcarrow}{arrows}{\mathrel}
1025 \fdsy@DeclareAlias{\curvearrowleft}{arrows}{\mathrel}
1026 \fdsy@DeclareAlias{\leftrcurevarrow}{arrows}{\mathrel}
1027 \fdsy@DeclareSymbol{\acwleftarcarrow}{arrows}{\mathrel}
1028 \fdsy@DeclareAlias{\downrcurevarrow}{arrows}{\mathrel}
1029 \fdsy@DeclareSymbol{\acwsearcarrow}{arrows}{\mathrel}
1030 \fdsy@DeclareAlias{\uprightcurevarrow}{arrows}{\mathrel}
1031 \fdsy@DeclareAlias{\nercurevarrow}{arrows}{\mathrel}
1032 \fdsy@DeclareSymbol{\acwnearcarrow}{arrows}{\mathrel}
1033 \fdsy@DeclareAlias{\leftupcurvedarrow}{arrows}{\mathrel}
1034 \fdsy@DeclareAlias{\nwrcurevarrow}{arrows}{\mathrel}
1035 \fdsy@DeclareSymbol{\acwnwarcarrow}{arrows}{\mathrel}
1036 \fdsy@DeclareAlias{\downleftcurvedarrow}{arrows}{\mathrel}
1037 \fdsy@DeclareAlias{\swrcurevarrow}{arrows}{\mathrel}
1038 \fdsy@DeclareSymbol{\acswwarcarrow}{arrows}{\mathrel}
1039 \fdsy@DeclareAlias{\rightdowncurvedarrow}{arrows}{\mathrel}
1040 \fdsy@DeclareAlias{\sercurevarrow}{arrows}{\mathrel}
1041 \fdsy@DeclareSymbol{\bdoverarcarrow}{arrows}{\mathrel}
1042 \fdsy@DeclareAlias{\leftrightcurevarrow}{arrows}{\mathrel}
1043 \fdsy@DeclareSymbol{\bdleftarcarrow}{arrows}{\mathrel}
1044 \fdsy@DeclareAlias{\updowncurevarrow}{arrows}{\mathrel}
1045 \fdsy@DeclareSymbol{\bdunderarcarrow}{arrows}{\mathrel}
1046 \fdsy@DeclareAlias{\rightleftcurevarrow}{arrows}{\mathrel}
1047 \fdsy@DeclareSymbol{\bdrigharcarrow}{arrows}{\mathrel}
1048 \fdsy@DeclareAlias{\downupcurevarrow}{arrows}{\mathrel}
1049 \fdsy@DeclareSymbol{\bdnwarcarrow}{arrows}{\mathrel}
1050 \fdsy@DeclareAlias{\neswcurevarrow}{arrows}{\mathrel}
1051 \fdsy@DeclareSymbol{\bdswarcarrow}{arrows}{\mathrel}
1052 \fdsy@DeclareAlias{\nwsecurevarrow}{arrows}{\mathrel}
1053 \fdsy@DeclareSymbol{\bdsearcarrow}{arrows}{\mathrel}
1054 \fdsy@DeclareAlias{\swnecurevarrow}{arrows}{\mathrel}
1055 \fdsy@DeclareSymbol{\bdnearcarrow}{arrows}{\mathrel}

```

```

1056 \fdsy@DeclareAlias{\senwcurvearrow}{arrows}{\mathrel}
1057 \fdsy@DeclareSymbol{\leftfootline}{arrows}{\mathrel}
1058 \fdsy@DeclareSymbol{\rightfootline}{arrows}{\mathrel}
1059 \fdsy@DeclareSymbol{\acwcirclearrowup}{arrows}{\mathrel}
1060 \fdsy@DeclareSymbol{\acwcirclearrowleft}{arrows}{\mathrel}
1061 \fdsy@DeclareAlias{\circlearrowleft}{arrows}{\mathrel}
1062 \fdsy@DeclareAlias{\acwopencirclearrow}{arrows}{\mathrel}
1063 \fdsy@DeclareSymbol{\acwcirclearrowdown}{arrows}{\mathrel}
1064 \fdsy@DeclareAlias{\acwgapcirclearrow}{arrows}{\mathrel}
1065 \fdsy@DeclareSymbol{\acwcirclearrowright}{arrows}{\mathrel}
1066 \fdsy@DeclareSymbol{\cwcirclearrowdown}{arrows}{\mathrel}
1067 \fdsy@DeclareAlias{\cwgapcirclearrow}{arrows}{\mathrel}
1068 \fdsy@DeclareSymbol{\cwcirclearrowright}{arrows}{\mathrel}
1069 \fdsy@DeclareAlias{\circlearrowright}{arrows}{\mathrel}
1070 \fdsy@DeclareAlias{\cwopencirclearrow}{arrows}{\mathrel}
1071 \fdsy@DeclareSymbol{\cwcirclearrowup}{arrows}{\mathrel}
1072 \fdsy@DeclareSymbol{\cwcirclearrowleft}{arrows}{\mathrel}
1073 \fdsy@DeclareSymbol{\Rrightarrow}{arrows}{\mathrel}
1074 \fdsy@DeclareSymbol{\Uparrow}{arrows}{\mathrel}
1075 \fdsy@DeclareSymbol{\Lleftarrow}{arrows}{\mathrel}
1076 \fdsy@DeclareSymbol{\Ddownarrow}{arrows}{\mathrel}
1077 \fdsy@DeclareSymbol{\longrightarrow}{arrows}{\mathrel}
1078 \fdsy@DeclareSymbol{\longleftarrow}{arrows}{\mathrel}
1079 \fdsy@DeclareSymbol{\Longrightarrow}{arrows}{\mathrel}
1080 \fdsy@DeclareSymbol{\Longleftarrow}{arrows}{\mathrel}
1081 \fdsy@DeclareSymbol{\longlefttrightarrow}{arrows}{\mathrel}
1082 \fdsy@DeclareSymbol{\Longlefttrightarrow}{arrows}{\mathrel}
1083 \fdsy@DeclareSymbol{\longmapsto}{arrows}{\mathrel}
1084 \fdsy@DeclareSymbol{\longmapsfrom}{arrows}{\mathrel}
1085 \fdsy@DeclareSymbol{\Longmapsto}{arrows}{\mathrel}
1086 \fdsy@DeclareSymbol{\Longmapsfrom}{arrows}{\mathrel}
1087 \fdsy@DeclareSymbol{\longrightwvearrow}{arrows}{\mathrel}
1088 \fdsy@DeclareAlias{\longleadsto}{arrows}{\mathrel}
1089 \fdsy@DeclareAlias{\longrightsquigarrow}{arrows}{\mathrel}
1090 \fdsy@DeclareSymbol{\longleftwvearrow}{arrows}{\mathrel}
1091 \fdsy@DeclareAlias{\longleftsquigarrow}{arrows}{\mathrel}
1092 \fdsy@DeclareSymbol{\longleftfootline}{arrows}{\mathrel}
1093 \fdsy@DeclareAlias{\vlongdash}{arrows}{\mathrel}
1094 \fdsy@DeclareSymbol{\longrightfootline}{arrows}{\mathrel}
1095 \fdsy@DeclareAlias{\longdashv}{arrows}{\mathrel}
1096 \fdsy@DeclareSymbol{\Lsh}{arrows}{\mathrel}
1097 \fdsy@DeclareSymbol{\Rsh}{arrows}{\mathrel}
1098 \fdsy@DeclareSymbol{\Ldsh}{arrows}{\mathrel}
1099 \fdsy@DeclareSymbol{\Rdsh}{arrows}{\mathrel}
1100 \fdsy@DeclareSymbol{\looparrowright}{arrows}{\mathrel}

```

```

1101 \fdsy@DeclareSymbol{\looparrowleft}{arrows}{\mathrel}
1102 \fdsy@setslot{224}
1103 \fdsy@DeclareSymbol{\rightvdash}{arrows}{\mathrel}
1104 \fdsy@DeclareAlias{\vdash}{arrows}{\mathrel}
1105 \fdsy@DeclareSymbol{\upvdash}{arrows}{\mathrel}
1106 \fdsy@DeclareAlias{\perp}{arrows}{\mathrel}
1107 \fdsy@DeclareAlias{\bot}{arrows}{\mathord}
1108 \fdsy@DeclareSymbol{\leftvdash}{arrows}{\mathrel}
1109 \fdsy@DeclareAlias{\dashv}{arrows}{\mathrel}
1110 \fdsy@DeclareSymbol{\downvdash}{arrows}{\mathrel}
1111 \fdsy@DeclareAlias{\top}{arrows}{\mathord}
1112 \fdsy@DeclareSymbol{\rightassert}{arrows}{\mathrel}
1113 \fdsy@DeclareAlias{\assert}{arrows}{\mathrel}
1114 \fdsy@DeclareAlias{\shorttright}{arrows}{\mathrel}
1115 \fdsy@DeclareSymbol{\upassert}{arrows}{\mathrel}
1116 \fdsy@DeclareAlias{\shortuptack}{arrows}{\mathrel}
1117 \fdsy@DeclareSymbol{\leftassert}{arrows}{\mathrel}
1118 \fdsy@DeclareAlias{\shortlefttack}{arrows}{\mathrel}
1119 \fdsy@DeclareSymbol{\downassert}{arrows}{\mathrel}
1120 \fdsy@DeclareAlias{\shortdowntack}{arrows}{\mathrel}
1121 \fdsy@DeclareSymbol{\rightvDash}{arrows}{\mathrel}
1122 \fdsy@DeclareAlias{\vDash}{arrows}{\mathrel}
1123 \fdsy@DeclareSymbol{\upvDash}{arrows}{\mathrel}
1124 \fdsy@DeclareAlias{\Vbar}{arrows}{\mathrel}
1125 \fdsy@DeclareSymbol{\leftvDash}{arrows}{\mathrel}
1126 \fdsy@DeclareAlias{\Dashv}{arrows}{\mathrel}
1127 \fdsy@DeclareSymbol{\downvDash}{arrows}{\mathrel}
1128 \fdsy@DeclareAlias{\barV}{arrows}{\mathrel}
1129 \fdsy@DeclareSymbol{\rightmodels}{arrows}{\mathrel}
1130 \fdsy@DeclareAlias{\models}{arrows}{\mathrel}
1131 \fdsy@DeclareSymbol{\upmodels}{arrows}{\mathrel}
1132 \fdsy@DeclareSymbol{\leftmodels}{arrows}{\mathrel}
1133 \fdsy@DeclareSymbol{\downmodels}{arrows}{\mathrel}
1134 \fdsy@DeclareSymbol{\rightVdash}{arrows}{\mathrel}
1135 \fdsy@DeclareAlias{\VDash}{arrows}{\mathrel}
1136 \fdsy@DeclareSymbol{\upVdash}{arrows}{\mathrel}
1137 \fdsy@DeclareSymbol{\leftVdash}{arrows}{\mathrel}
1138 \fdsy@DeclareAlias{\dashV}{arrows}{\mathrel}
1139 \fdsy@DeclareSymbol{\downVdash}{arrows}{\mathrel}
1140 \fdsy@DeclareSymbol{\rightAssert}{arrows}{\mathrel}
1141 \fdsy@DeclareAlias{\Assert}{arrows}{\mathrel}
1142 \fdsy@DeclareSymbol{\upAssert}{arrows}{\mathrel}
1143 \fdsy@DeclareAlias{\vBar}{arrows}{\mathrel}
1144 \fdsy@DeclareSymbol{\leftAssert}{arrows}{\mathrel}
1145 \fdsy@DeclareSymbol{\downAssert}{arrows}{\mathrel}

```

```

1146 \fdsy@DeclareAlias{\Barv}{arrows}{\mathrel}
1147 \fdsy@DeclareSymbol{\rightVDash}{arrows}{\mathrel}
1148 \fdsy@DeclareAlias{\VDash}{arrows}{\mathrel}
1149 \fdsy@DeclareSymbol{\upVDash}{arrows}{\mathrel}
1150 \fdsy@DeclareSymbol{\leftVDash}{arrows}{\mathrel}
1151 \fdsy@DeclareAlias{\DashV}{arrows}{\mathrel}
1152 \fdsy@DeclareSymbol{\downVDash}{arrows}{\mathrel}
1153 \fdsy@DeclareSymbol{\Vvdash}{arrows}{\mathrel}
1154 \fdsy@DeclareSymbol{\dashVv}{arrows}{\mathrel}
1155 \fdsy@DeclareSymbol{\vDdash}{arrows}{\mathrel}
1156 \fdsy@DeclareSymbol{\Ddashv}{arrows}{\mathrel}
1157
1158 \DeclareRobustCommand{\relbar}{\mathrel{\smash-}}
1159 \DeclareRobustCommand{\Relbar}{\mathrel=}
1160 \let\joinrel\undefined
1161 \DeclareRobustCommand\joinrel{\mathrel{\mkern-4mu}}

  FdSymbolD: stroked arrows
1162 \fdsy@setslot{0}
1163 \fdsy@DeclareSymbol{\nrightarrow}{narrows}{\mathrel}
1164 \fdsy@DeclareAlias{\nto}{narrows}{\mathrel}
1165 \fdsy@DeclareSymbol{\nuparrow}{narrows}{\mathrel}
1166 \fdsy@DeclareSymbol{\nleftarrow}{narrows}{\mathrel}
1167 \fdsy@DeclareAlias{\ngets}{narrows}{\mathrel}
1168 \fdsy@DeclareSymbol{\ndownarrow}{narrows}{\mathrel}
1169 \fdsy@DeclareSymbol{\nnearrow}{narrows}{\mathrel}
1170 \fdsy@DeclareSymbol{\nnwarrow}{narrows}{\mathrel}
1171 \fdsy@DeclareSymbol{\nswarrow}{narrows}{\mathrel}
1172 \fdsy@DeclareSymbol{\nsearrow}{narrows}{\mathrel}
1173 \fdsy@DeclareSymbol{\nrightarrow}{narrows}{\mathrel}
1174 \fdsy@DeclareSymbol{\nUparrow}{narrows}{\mathrel}
1175 \fdsy@DeclareSymbol{\nLeftarrow}{narrows}{\mathrel}
1176 \fdsy@DeclareSymbol{\nDownarrow}{narrows}{\mathrel}
1177 \fdsy@DeclareSymbol{\nNearrow}{narrows}{\mathrel}
1178 \fdsy@DeclareSymbol{\nNwarrow}{narrows}{\mathrel}
1179 \fdsy@DeclareSymbol{\nSwarrow}{narrows}{\mathrel}
1180 \fdsy@DeclareSymbol{\nSearrow}{narrows}{\mathrel}
1181 \fdsy@DeclareSymbol{\nleftrightharpoonup}{narrows}{\mathrel}
1182 \fdsy@DeclareSymbol{\nupdownarrow}{narrows}{\mathrel}
1183 \fdsy@DeclareSymbol{\nneswarpoon}{narrows}{\mathrel}
1184 \fdsy@DeclareSymbol{\nnwsearrow}{narrows}{\mathrel}
1185 \fdsy@DeclareSymbol{\nLeftrightharpoonup}{narrows}{\mathrel}
1186 \fdsy@DeclareSymbol{\nUpdownarrow}{narrows}{\mathrel}
1187 \fdsy@DeclareSymbol{\nNeswarpoon}{narrows}{\mathrel}
1188 \fdsy@DeclareSymbol{\nNwsearrow}{narrows}{\mathrel}
1189 \fdsy@DeclareSymbol{\ntwoheadrightarrow}{narrows}{\mathrel}

```

```

1190 \fdsy@DeclareSymbol{\twoheaduparrow}{narrows}{\mathrel}
1191 \fdsy@DeclareSymbol{\twoheadleftarrow}{narrows}{\mathrel}
1192 \fdsy@DeclareSymbol{\twoheaddownarrow}{narrows}{\mathrel}
1193 \fdsy@DeclareSymbol{\twoheadnearrow}{narrows}{\mathrel}
1194 \fdsy@DeclareSymbol{\twoheadnwarrow}{narrows}{\mathrel}
1195 \fdsy@DeclareSymbol{\twoheadswarrow}{narrows}{\mathrel}
1196 \fdsy@DeclareSymbol{\twoheadsearrow}{narrows}{\mathrel}
1197 \fdsy@DeclareSymbol{\nrightarrowtail}{narrows}{\mathrel}
1198 \fdsy@DeclareSymbol{\nuparrowtail}{narrows}{\mathrel}
1199 \fdsy@DeclareSymbol{\nleftarrowtail}{narrows}{\mathrel}
1200 \fdsy@DeclareSymbol{\ndownarrowtail}{narrows}{\mathrel}
1201 \fdsy@DeclareSymbol{\nnearrowtail}{narrows}{\mathrel}
1202 \fdsy@DeclareSymbol{\nnwarrowtail}{narrows}{\mathrel}
1203 \fdsy@DeclareSymbol{\nswarrowtail}{narrows}{\mathrel}
1204 \fdsy@DeclareSymbol{\nsearrowtail}{narrows}{\mathrel}
1205 \fdsy@DeclareSymbol{\nrightarrow}{narrows}{\mathrel}
1206 \fdsy@DeclareAlias{\nmapsto}{narrows}{\mathrel}
1207 \fdsy@DeclareSymbol{\nupmapsto}{narrows}{\mathrel}
1208 \fdsy@DeclareAlias{\nmapsup}{narrows}{\mathrel}
1209 \fdsy@DeclareSymbol{\nleftmapsto}{narrows}{\mathrel}
1210 \fdsy@DeclareAlias{\nmapsfrom}{narrows}{\mathrel}
1211 \fdsy@DeclareSymbol{\ndownmapsto}{narrows}{\mathrel}
1212 \fdsy@DeclareAlias{\nmapsdown}{narrows}{\mathrel}
1213 \fdsy@DeclareSymbol{\nRightmapsto}{narrows}{\mathrel}
1214 \fdsy@DeclareAlias{\nMapsto}{narrows}{\mathrel}
1215 \fdsy@DeclareSymbol{\nUpmapsto}{narrows}{\mathrel}
1216 \fdsy@DeclareAlias{\nMapsup}{narrows}{\mathrel}
1217 \fdsy@DeclareSymbol{\nLeftmapsto}{narrows}{\mathrel}
1218 \fdsy@DeclareAlias{\nMapsfrom}{narrows}{\mathrel}
1219 \fdsy@DeclareSymbol{\nDownmapsto}{narrows}{\mathrel}
1220 \fdsy@DeclareAlias{\nMapsdown}{narrows}{\mathrel}
1221 \fdsy@DeclareSymbol{\nhookrightarrow}{narrows}{\mathrel}
1222 \fdsy@DeclareSymbol{\nhookuparrow}{narrows}{\mathrel}
1223 \fdsy@DeclareSymbol{\nvarhookleftarrow}{narrows}{\mathrel}
1224 \fdsy@DeclareSymbol{\nvarhookdownarrow}{narrows}{\mathrel}
1225 \fdsy@DeclareSymbol{\nvarhooknearrow}{narrows}{\mathrel}
1226 \fdsy@DeclareSymbol{\nhooknwarrow}{narrows}{\mathrel}
1227 \fdsy@DeclareAlias{\nhknwarrow}{narrows}{\mathrel}
1228 \fdsy@DeclareSymbol{\nvarhookswarrow}{narrows}{\mathrel}
1229 \fdsy@DeclareSymbol{\nhooksearrow}{narrows}{\mathrel}
1230 \fdsy@DeclareAlias{\nhksearrow}{narrows}{\mathrel}
1231 \fdsy@DeclareSymbol{\nvarhookrightarrow}{narrows}{\mathrel}
1232 \fdsy@DeclareSymbol{\nvarhookuparrow}{narrows}{\mathrel}
1233 \fdsy@DeclareSymbol{\nhookleftarrow}{narrows}{\mathrel}
1234 \fdsy@DeclareSymbol{\nhookdownarrow}{narrows}{\mathrel}

```

```

1235 \fdsy@DeclareSymbol{\nhooknearrow}{narrows}{\mathrel}
1236 \fdsy@DeclareAlias{\nhknearrow}{narrows}{\mathrel}
1237 \fdsy@DeclareSymbol{\nvarhooknarrow}{narrows}{\mathrel}
1238 \fdsy@DeclareSymbol{\nhookswarrow}{narrows}{\mathrel}
1239 \fdsy@DeclareAlias{\nhkswarrow}{narrows}{\mathrel}
1240 \fdsy@DeclareSymbol{\nvarhooksearrow}{narrows}{\mathrel}
1241 \fdsy@DeclareSymbol{\nrightharpoonup}{narrows}{\mathrel}
1242 \fdsy@DeclareSymbol{\nupharpoonleft}{narrows}{\mathrel}
1243 \fdsy@DeclareSymbol{\nleftharpoondown}{narrows}{\mathrel}
1244 \fdsy@DeclareSymbol{\ndownharpoonright}{narrows}{\mathrel}
1245 \fdsy@DeclareSymbol{\nneharpoonnw}{narrows}{\mathrel}
1246 \fdsy@DeclareSymbol{\nnwharpoonsw}{narrows}{\mathrel}
1247 \fdsy@DeclareSymbol{\nswharpoonse}{narrows}{\mathrel}
1248 \fdsy@DeclareSymbol{\nseharpoonne}{narrows}{\mathrel}
1249 \fdsy@DeclareSymbol{\nrightharpoondown}{narrows}{\mathrel}
1250 \fdsy@DeclareSymbol{\nupharpoonright}{narrows}{\mathrel}
1251 \fdsy@DeclareAlias{\nrestriction}{narrows}{\mathrel}
1252 \fdsy@DeclareSymbol{\nleftharpoonup}{narrows}{\mathrel}
1253 \fdsy@DeclareSymbol{\ndownharpoonleft}{narrows}{\mathrel}
1254 \fdsy@DeclareSymbol{\nneharpoonse}{narrows}{\mathrel}
1255 \fdsy@DeclareSymbol{\nnwharpoonne}{narrows}{\mathrel}
1256 \fdsy@DeclareSymbol{\nswharpoonnw}{narrows}{\mathrel}
1257 \fdsy@DeclareSymbol{\nseharpoonsw}{narrows}{\mathrel}
1258 \fdsy@DeclareSymbol{\nleftrightharpoonupdown}{narrows}{\mathrel}
1259 \fdsy@DeclareSymbol{\nupdownharpoonleftright}{narrows}{\mathrel}
1260 \fdsy@DeclareSymbol{\nneswharpoonnwse}{narrows}{\mathrel}
1261 \fdsy@DeclareSymbol{\nnwseharpoonnesw}{narrows}{\mathrel}
1262 \fdsy@DeclareSymbol{\nleftrightharpoondownup}{narrows}{\mathrel}
1263 \fdsy@DeclareSymbol{\nupdownharpoonrightleft}{narrows}{\mathrel}
1264 \fdsy@DeclareSymbol{\nneswharpoonsenw}{narrows}{\mathrel}
1265 \fdsy@DeclareSymbol{\nnwseharpoonswne}{narrows}{\mathrel}
1266 \fdsy@DeclareSymbol{\nrightharpoons}{narrows}{\mathrel}
1267 \fdsy@DeclareSymbol{\nupdownharpoons}{narrows}{\mathrel}
1268 \fdsy@DeclareAlias{\nupdownharpoonsleftright}{narrows}{\mathrel}
1269 \fdsy@DeclareSymbol{\nneswharpoons}{narrows}{\mathrel}
1270 \fdsy@DeclareSymbol{\nsenwharpoons}{narrows}{\mathrel}
1271 \fdsy@DeclareSymbol{\nleftrightharpoons}{narrows}{\mathrel}
1272 \fdsy@DeclareSymbol{\ndownupharpoons}{narrows}{\mathrel}
1273 \fdsy@DeclareAlias{\ndownupharpoonsleftright}{narrows}{\mathrel}
1274 \fdsy@DeclareSymbol{\nswneharpoons}{narrows}{\mathrel}
1275 \fdsy@DeclareSymbol{\nnwseharpoons}{narrows}{\mathrel}
1276 \fdsy@DeclareSymbol{\nrightharpoonleft}{narrows}{\mathrel}
1277 \fdsy@DeclareAlias{\ndasharrow}{narrows}{\mathrel}
1278 \fdsy@DeclareAlias{\ndashrightarrow}{narrows}{\mathrel}
1279 \fdsy@DeclareSymbol{\nupbkarrow}{narrows}{\mathrel}

```

```

1280 \fdsy@DeclareSymbol{\nleftbkarrow}{narrows}{\mathrel}
1281 \fdsy@DeclareAlias{\ndashleftarrow}{narrows}{\mathrel}
1282 \fdsy@DeclareSymbol{\ndownbkarrow}{narrows}{\mathrel}
1283 \fdsy@DeclareSymbol{\nnebkarrow}{narrows}{\mathrel}
1284 \fdsy@DeclareSymbol{\nnwbkarrow}{narrows}{\mathrel}
1285 \fdsy@DeclareSymbol{\nswbkarrow}{narrows}{\mathrel}
1286 \fdsy@DeclareSymbol{\nsebkarrow}{narrows}{\mathrel}
1287 \fdsy@DeclareSymbol{\nrighthspoon}{narrows}{\mathrel}
1288 \fdsy@DeclareAlias{\nmultimap}{narrows}{\mathrel}
1289 \fdsy@DeclareSymbol{\nupspoon}{narrows}{\mathrel}
1290 \fdsy@DeclareAlias{\ncirmid}{narrows}{\mathrel}
1291 \fdsy@DeclareSymbol{\nleftspoon}{narrows}{\mathrel}
1292 \fdsy@DeclareAlias{\nmultimapinv}{narrows}{\mathrel}
1293 \fdsy@DeclareSymbol{\ndownspoon}{narrows}{\mathrel}
1294 \fdsy@DeclareAlias{\nmidcir}{narrows}{\mathrel}
1295 \fdsy@DeclareSymbol{\nrighblackspoon}{narrows}{\mathrel}
1296 \fdsy@DeclareSymbol{\nupblackspoon}{narrows}{\mathrel}
1297 \fdsy@DeclareSymbol{\nleftblackspoon}{narrows}{\mathrel}
1298 \fdsy@DeclareSymbol{\ndownblackspoon}{narrows}{\mathrel}
1299 \fdsy@DeclareSymbol{\nletrightspoon}{narrows}{\mathrel}
1300 \fdsy@DeclareAlias{\ndualmap}{narrows}{\mathrel}
1301 \fdsy@DeclareSymbol{\nletrightblackspoon}{narrows}{\mathrel}
1302 \fdsy@DeclareSymbol{\nblackwhitespoon}{narrows}{\mathrel}
1303 \fdsy@DeclareAlias{\nimageof}{narrows}{\mathrel}
1304 \fdsy@DeclareSymbol{\nwhiteblackspoon}{narrows}{\mathrel}
1305 \fdsy@DeclareAlias{\norigof}{narrows}{\mathrel}
1306 \fdsy@DeclareSymbol{\nrighpitchfork}{narrows}{\mathrel}
1307 \fdsy@DeclareSymbol{\nuppitchfork}{narrows}{\mathrel}
1308 \fdsy@DeclareAlias{\npitchfork}{narrows}{\mathrel}
1309 \fdsy@DeclareSymbol{\nleftpitchfork}{narrows}{\mathrel}
1310 \fdsy@DeclareSymbol{\ndownpitchfork}{narrows}{\mathrel}
1311 \fdsy@DeclareSymbol{\nrightrightarrows}{narrows}{\mathrel}
1312 \fdsy@DeclareSymbol{\nupuparrows}{narrows}{\mathrel}
1313 \fdsy@DeclareSymbol{\nleftleftarrows}{narrows}{\mathrel}
1314 \fdsy@DeclareSymbol{\ndowndownarrows}{narrows}{\mathrel}
1315 \fdsy@DeclareSymbol{\nnenearrows}{narrows}{\mathrel}
1316 \fdsy@DeclareSymbol{\nnwnwarrows}{narrows}{\mathrel}
1317 \fdsy@DeclareSymbol{\nswswarrows}{narrows}{\mathrel}
1318 \fdsy@DeclareSymbol{\nsesearrows}{narrows}{\mathrel}
1319 \fdsy@DeclareSymbol{\nrightrightarrows}{narrows}{\mathrel}
1320 \fdsy@DeclareSymbol{\nupdownarrows}{narrows}{\mathrel}
1321 \fdsy@DeclareSymbol{\nneswarrows}{narrows}{\mathrel}
1322 \fdsy@DeclareSymbol{\nnwsearrows}{narrows}{\mathrel}
1323 \fdsy@DeclareSymbol{\nletrightarrows}{narrows}{\mathrel}
1324 \fdsy@DeclareSymbol{\ndownuparrows}{narrows}{\mathrel}

```



```

1325 \fdsy@DeclareSymbol{\nswnearrows}{narrows}{\mathrel}
1326 \fdsy@DeclareSymbol{\nsenwarrows}{narrows}{\mathrel}
1327 \fdsy@DeclareSymbol{\nrighthwavearrow}{narrows}{\mathrel}
1328 \fdsy@DeclareAlias{\nleadsto}{narrows}{\mathrel}
1329 \fdsy@DeclareAlias{\nrightrightarrow}{narrows}{\mathrel}
1330 \fdsy@DeclareAlias{\nrightrightarrow}{arrows}{\mathrel}
1331 \fdsy@DeclareAlias{\nrightrightarrow}{narrows}{\mathrel}
1332 \fdsy@DeclareSymbol{\nvarupwvearrow}{narrows}{\mathrel}
1333 \fdsy@DeclareAlias{\nuprightarrow}{narrows}{\mathrel}
1334 \fdsy@DeclareSymbol{\nvarleftwvearrow}{narrows}{\mathrel}
1335 \fdsy@DeclareAlias{\nleftrightarrow}{narrows}{\mathrel}
1336 \fdsy@DeclareSymbol{\ndownwvearrow}{narrows}{\mathrel}
1337 \fdsy@DeclareAlias{\ndownrightarrow}{narrows}{\mathrel}
1338 \fdsy@DeclareSymbol{\nvarrightwvearrow}{narrows}{\mathrel}
1339 \fdsy@DeclareAlias{\nrightrightarrow}{narrows}{\mathrel}
1340 \fdsy@DeclareSymbol{\nupwvearrow}{narrows}{\mathrel}
1341 \fdsy@DeclareAlias{\nuprightarrow}{narrows}{\mathrel}
1342 \fdsy@DeclareSymbol{\nleftwvearrow}{narrows}{\mathrel}
1343 \fdsy@DeclareAlias{\nleftrightarrow}{narrows}{\mathrel}
1344 \fdsy@DeclareAlias{\nleftrightarrow}{arrows}{\mathrel}
1345 \fdsy@DeclareAlias{\nleftrightarrow}{narrows}{\mathrel}
1346 \fdsy@DeclareSymbol{\nvardownwvearrow}{narrows}{\mathrel}
1347 \fdsy@DeclareAlias{\ndownrightarrow}{narrows}{\mathrel}
1348 \fdsy@DeclareSymbol{\nleftrighthwvearrow}{narrows}{\mathrel}
1349 \fdsy@DeclareAlias{\nleftrighthwvearrow}{narrows}{\mathrel}
1350 \fdsy@DeclareSymbol{\nupdownwvearrow}{narrows}{\mathrel}
1351 \fdsy@DeclareAlias{\nupdownrightarrow}{narrows}{\mathrel}
1352 \fdsy@DeclareSymbol{\nvarleftrighthwvearrow}{narrows}{\mathrel}
1353 \fdsy@DeclareAlias{\nrightrightarrow}{narrows}{\mathrel}
1354 \fdsy@DeclareSymbol{\nvarupdownwvearrow}{narrows}{\mathrel}
1355 \fdsy@DeclareAlias{\ndownuprightarrow}{narrows}{\mathrel}
1356 \fdsy@DeclareSymbol{\ncwoverarcarrow}{narrows}{\mathrel}
1357 \fdsy@DeclareAlias{\ncurvecarrowright}{narrows}{\mathrel}
1358 \fdsy@DeclareAlias{\nrightrightarrow}{narrows}{\mathrel}
1359 \fdsy@DeclareSymbol{\ncwleftarcarrow}{narrows}{\mathrel}
1360 \fdsy@DeclareAlias{\nuplcurvecarrow}{narrows}{\mathrel}
1361 \fdsy@DeclareSymbol{\ncwunderarcarrow}{narrows}{\mathrel}
1362 \fdsy@DeclareAlias{\nleftlcurvecarrow}{narrows}{\mathrel}
1363 \fdsy@DeclareSymbol{\ncwrightarcarrow}{narrows}{\mathrel}
1364 \fdsy@DeclareAlias{\ndownlcurvecarrow}{narrows}{\mathrel}
1365 \fdsy@DeclareSymbol{\ncwnwarcarrow}{narrows}{\mathrel}
1366 \fdsy@DeclareAlias{\nrightrightarrow}{narrows}{\mathrel}
1367 \fdsy@DeclareAlias{\nnelcurvecarrow}{narrows}{\mathrel}
1368 \fdsy@DeclareSymbol{\ncwswarcarrow}{narrows}{\mathrel}
1369 \fdsy@DeclareAlias{\nupleftcurvecarrow}{narrows}{\mathrel}

```

```

1370 \fdsy@DeclareAlias{\nnwlcurearrow}{narrows}{\mathrel}
1371 \fdsy@DeclareSymbol{\ncwseararrow}{narrows}{\mathrel}
1372 \fdsy@DeclareAlias{\nleftdowncurvedarrow}{narrows}{\mathrel}
1373 \fdsy@DeclareAlias{\nswlcurearrow}{narrows}{\mathrel}
1374 \fdsy@DeclareSymbol{\ncwneararrow}{narrows}{\mathrel}
1375 \fdsy@DeclareAlias{\ndownrightcurvedarrow}{narrows}{\mathrel}
1376 \fdsy@DeclareAlias{\nselcurearrow}{narrows}{\mathrel}
1377 \fdsy@DeclareSymbol{\nacwunderararrow}{narrows}{\mathrel}
1378 \fdsy@DeclareAlias{\nrightrcurearrow}{narrows}{\mathrel}
1379 \fdsy@DeclareSymbol{\nacwrightararrow}{narrows}{\mathrel}
1380 \fdsy@DeclareAlias{\nuprcurearrow}{narrows}{\mathrel}
1381 \fdsy@DeclareSymbol{\nacwoverararrow}{narrows}{\mathrel}
1382 \fdsy@DeclareAlias{\ncurearrowleft}{narrows}{\mathrel}
1383 \fdsy@DeclareAlias{\nlefttrcurearrow}{narrows}{\mathrel}
1384 \fdsy@DeclareSymbol{\nacwleftararrow}{narrows}{\mathrel}
1385 \fdsy@DeclareAlias{\ndownrcurearrow}{narrows}{\mathrel}
1386 \fdsy@DeclareSymbol{\nacwseararrow}{narrows}{\mathrel}
1387 \fdsy@DeclareAlias{\nuprightcurearrow}{narrows}{\mathrel}
1388 \fdsy@DeclareAlias{\nnercurearrow}{narrows}{\mathrel}
1389 \fdsy@DeclareSymbol{\nacwneararrow}{narrows}{\mathrel}
1390 \fdsy@DeclareAlias{\nleftupcurvedarrow}{narrows}{\mathrel}
1391 \fdsy@DeclareAlias{\nnwrcurearrow}{narrows}{\mathrel}
1392 \fdsy@DeclareSymbol{\nacwnwararrow}{narrows}{\mathrel}
1393 \fdsy@DeclareAlias{\ndownleftcurvedarrow}{narrows}{\mathrel}
1394 \fdsy@DeclareAlias{\nswrcurearrow}{narrows}{\mathrel}
1395 \fdsy@DeclareSymbol{\nacswwararrow}{narrows}{\mathrel}
1396 \fdsy@DeclareAlias{\nrightdowncurvedarrow}{narrows}{\mathrel}
1397 \fdsy@DeclareAlias{\nsercurearrow}{narrows}{\mathrel}
1398 \fdsy@DeclareSymbol{\nbdoverararrow}{narrows}{\mathrel}
1399 \fdsy@DeclareAlias{\nleftrightcurearrow}{narrows}{\mathrel}
1400 \fdsy@DeclareSymbol{\nbdleftararrow}{narrows}{\mathrel}
1401 \fdsy@DeclareAlias{\nupdowncurearrow}{narrows}{\mathrel}
1402 \fdsy@DeclareSymbol{\nbdunderararrow}{narrows}{\mathrel}
1403 \fdsy@DeclareAlias{\nrightrightcurearrow}{narrows}{\mathrel}
1404 \fdsy@DeclareSymbol{\nbdrightararrow}{narrows}{\mathrel}
1405 \fdsy@DeclareAlias{\ndownupcurearrow}{narrows}{\mathrel}
1406 \fdsy@DeclareSymbol{\nbdnwararrow}{narrows}{\mathrel}
1407 \fdsy@DeclareAlias{\nneswcurearrow}{narrows}{\mathrel}
1408 \fdsy@DeclareSymbol{\nbdswararrow}{narrows}{\mathrel}
1409 \fdsy@DeclareAlias{\nnwsecurearrow}{narrows}{\mathrel}
1410 \fdsy@DeclareSymbol{\nbdseararrow}{narrows}{\mathrel}
1411 \fdsy@DeclareAlias{\nswnecurearrow}{narrows}{\mathrel}
1412 \fdsy@DeclareSymbol{\nbdneararrow}{narrows}{\mathrel}
1413 \fdsy@DeclareAlias{\nsenwcurearrow}{narrows}{\mathrel}
1414 \fdsy@DeclareSymbol{\nleftfootline}{narrows}{\mathrel}

```

```

1415 \fdsy@DeclareSymbol{\nrightfootline}{narrows}{\mathrel}
1416 \fdsy@DeclareSymbol{\nacwcirculararrowup}{narrows}{\mathrel}
1417 \fdsy@DeclareSymbol{\nacwcirculararrowleft}{narrows}{\mathrel}
1418 \fdsy@DeclareAlias{\ncirculararrowleft}{narrows}{\mathrel}
1419 \fdsy@DeclareAlias{\nacwopencirculararrow}{narrows}{\mathrel}
1420 \fdsy@DeclareSymbol{\nacwcirculararrowdown}{narrows}{\mathrel}
1421 \fdsy@DeclareAlias{\nacwgapcirculararrow}{narrows}{\mathrel}
1422 \fdsy@DeclareSymbol{\nacwcirculararrowright}{narrows}{\mathrel}
1423 \fdsy@DeclareSymbol{\ncwcirculararrowdown}{narrows}{\mathrel}
1424 \fdsy@DeclareAlias{\ncwgapcirculararrow}{narrows}{\mathrel}
1425 \fdsy@DeclareSymbol{\ncwcirculararrowright}{narrows}{\mathrel}
1426 \fdsy@DeclareAlias{\ncirculararrowright}{narrows}{\mathrel}
1427 \fdsy@DeclareAlias{\ncwopencirculararrow}{narrows}{\mathrel}
1428 \fdsy@DeclareSymbol{\ncwcirculararrowup}{narrows}{\mathrel}
1429 \fdsy@DeclareSymbol{\ncwcirculararrowleft}{narrows}{\mathrel}
1430 \fdsy@DeclareSymbol{\nRrightarrow}{narrows}{\mathrel}
1431 \fdsy@DeclareSymbol{\nUparrow}{narrows}{\mathrel}
1432 \fdsy@DeclareSymbol{\nLleftarrow}{narrows}{\mathrel}
1433 \fdsy@DeclareSymbol{\nDdownarrow}{narrows}{\mathrel}
1434 \fdsy@DeclareSymbol{\nlongrightarrow}{narrows}{\mathrel}
1435 \fdsy@DeclareSymbol{\nlongleftarrow}{narrows}{\mathrel}
1436 \fdsy@DeclareSymbol{\nLongrightarrow}{narrows}{\mathrel}
1437 \fdsy@DeclareSymbol{\nLongleftarrow}{narrows}{\mathrel}
1438 \fdsy@DeclareSymbol{\nlongleftrightharpoonup}{narrows}{\mathrel}
1439 \fdsy@DeclareSymbol{\nLongleftrightharpoonup}{narrows}{\mathrel}
1440 \fdsy@DeclareSymbol{\nlongmapsto}{narrows}{\mathrel}
1441 \fdsy@DeclareSymbol{\nlongmapsfrom}{narrows}{\mathrel}
1442 \fdsy@DeclareSymbol{\nLongmapsto}{narrows}{\mathrel}
1443 \fdsy@DeclareSymbol{\nLongmapsfrom}{narrows}{\mathrel}
1444 \fdsy@DeclareSymbol{\nlongrightwavyarrow}{narrows}{\mathrel}
1445 \fdsy@DeclareAlias{\nlongleadsto}{narrows}{\mathrel}
1446 \fdsy@DeclareAlias{\nlongrightsquigarrow}{narrows}{\mathrel}
1447 \fdsy@DeclareSymbol{\nlongleftwavyarrow}{narrows}{\mathrel}
1448 \fdsy@DeclareAlias{\nlongleftsquigarrow}{narrows}{\mathrel}
1449 \fdsy@DeclareSymbol{\nlongleftfootline}{narrows}{\mathrel}
1450 \fdsy@DeclareAlias{\nvlongdash}{narrows}{\mathrel}
1451 \fdsy@DeclareSymbol{\nlongrightfootline}{narrows}{\mathrel}
1452 \fdsy@DeclareAlias{\nlongdashv}{narrows}{\mathrel}
1453 \fdsy@setslot{224}
1454 \fdsy@DeclareSymbol{\nrightvdash}{narrows}{\mathrel}
1455 \fdsy@DeclareAlias{\nvdash}{narrows}{\mathrel}
1456 \fdsy@DeclareSymbol{\nupvdash}{narrows}{\mathrel}
1457 \fdsy@DeclareAlias{\nperp}{narrows}{\mathrel}
1458 \fdsy@DeclareSymbol{\nleftvdash}{narrows}{\mathrel}
1459 \fdsy@DeclareAlias{\ndashv}{narrows}{\mathrel}

```

```

1460 \fdsy@DeclareSymbol{\ndownvdash}{narrows}{\mathrel}
1461 \fdsy@DeclareSymbol{\nrightassert}{narrows}{\mathrel}
1462 \fdsy@DeclareAlias{\nassert}{narrows}{\mathrel}
1463 \fdsy@DeclareAlias{\nshorttrightntack}{narrows}{\mathrel}
1464 \fdsy@DeclareSymbol{\nupassert}{narrows}{\mathrel}
1465 \fdsy@DeclareAlias{\nshortuptack}{narrows}{\mathrel}
1466 \fdsy@DeclareSymbol{\nleftassert}{narrows}{\mathrel}
1467 \fdsy@DeclareAlias{\nshortlefttack}{narrows}{\mathrel}
1468 \fdsy@DeclareSymbol{\ndownassert}{narrows}{\mathrel}
1469 \fdsy@DeclareAlias{\nshortdowntack}{narrows}{\mathrel}
1470 \fdsy@DeclareSymbol{\nrightvDash}{narrows}{\mathrel}
1471 \fdsy@DeclareAlias{\nvDash}{narrows}{\mathrel}
1472 \fdsy@DeclareSymbol{\nupvDash}{narrows}{\mathrel}
1473 \fdsy@DeclareAlias{\nVbar}{narrows}{\mathrel}
1474 \fdsy@DeclareSymbol{\nleftvDash}{narrows}{\mathrel}
1475 \fdsy@DeclareAlias{\nDashv}{narrows}{\mathrel}
1476 \fdsy@DeclareSymbol{\ndownvDash}{narrows}{\mathrel}
1477 \fdsy@DeclareAlias{\nbarV}{narrows}{\mathrel}
1478 \fdsy@DeclareSymbol{\nrightmodels}{narrows}{\mathrel}
1479 \fdsy@DeclareAlias{\nmodels}{narrows}{\mathrel}
1480 \fdsy@DeclareSymbol{\nupmodels}{narrows}{\mathrel}
1481 \fdsy@DeclareSymbol{\nleftmodels}{narrows}{\mathrel}
1482 \fdsy@DeclareSymbol{\ndownmodels}{narrows}{\mathrel}
1483 \fdsy@DeclareSymbol{\nrightVdash}{narrows}{\mathrel}
1484 \fdsy@DeclareAlias{\nVdash}{narrows}{\mathrel}
1485 \fdsy@DeclareSymbol{\nupVdash}{narrows}{\mathrel}
1486 \fdsy@DeclareSymbol{\nleftVdash}{narrows}{\mathrel}
1487 \fdsy@DeclareAlias{\ndashV}{narrows}{\mathrel}
1488 \fdsy@DeclareSymbol{\ndownVdash}{narrows}{\mathrel}
1489 \fdsy@DeclareSymbol{\nrightAssert}{narrows}{\mathrel}
1490 \fdsy@DeclareAlias{\nAssert}{narrows}{\mathrel}
1491 \fdsy@DeclareSymbol{\nupAssert}{narrows}{\mathrel}
1492 \fdsy@DeclareAlias{\nvBar}{narrows}{\mathrel}
1493 \fdsy@DeclareSymbol{\nleftAssert}{narrows}{\mathrel}
1494 \fdsy@DeclareSymbol{\ndownAssert}{narrows}{\mathrel}
1495 \fdsy@DeclareAlias{\nBarv}{narrows}{\mathrel}
1496 \fdsy@DeclareSymbol{\nrightVDash}{narrows}{\mathrel}
1497 \fdsy@DeclareAlias{\nVDash}{narrows}{\mathrel}
1498 \fdsy@DeclareSymbol{\nupVDash}{narrows}{\mathrel}
1499 \fdsy@DeclareSymbol{\nleftVDash}{narrows}{\mathrel}
1500 \fdsy@DeclareAlias{\nDashV}{narrows}{\mathrel}
1501 \fdsy@DeclareSymbol{\ndownVDash}{narrows}{\mathrel}
1502 \fdsy@DeclareSymbol{\nVvdash}{narrows}{\mathrel}
1503 \fdsy@DeclareSymbol{\ndashVv}{narrows}{\mathrel}
1504 \fdsy@DeclareSymbol{\nvDdash}{narrows}{\mathrel}

```

```

1505 \fdsy@DeclareSymbol{\nDdashv}{\narrow}{\mathrel}
    FdSymbolE: large operators
1506 \fdsy@setslot{0}
1507 \fdsy@DeclareSymbol{\tbigplus}{largesymbols}{\mathop}
1508 \fdsy@DeclareSymbol{\dbigplus}{largesymbols}{\mathop}
1509 \fdsy@DeclareSymbol{\tbigtimes}{largesymbols}{\mathop}
1510 \fdsy@DeclareSymbol{\dbigtimes}{largesymbols}{\mathop}
1511 \fdsy@DeclareSymbol{\tbigwedge}{largesymbols}{\mathop}
1512 \fdsy@DeclareSymbol{\dbigwedge}{largesymbols}{\mathop}
1513 \fdsy@DeclareSymbol{\tbigvee}{largesymbols}{\mathop}
1514 \fdsy@DeclareSymbol{\dbigvee}{largesymbols}{\mathop}
1515 \fdsy@DeclareSymbol{\tbigwedgedot}{largesymbols}{\mathop}
1516 \fdsy@DeclareSymbol{\dbigwedgedot}{largesymbols}{\mathop}
1517 \fdsy@DeclareSymbol{\tbigveedot}{largesymbols}{\mathop}
1518 \fdsy@DeclareSymbol{\dbigveedot}{largesymbols}{\mathop}
1519 \fdsy@DeclareSymbol{\tbigdoublewedge}{largesymbols}{\mathop}
1520 \fdsy@DeclareAlias{\tconjquant}{largesymbols}{\mathop}
1521 \fdsy@DeclareSymbol{\dbigdoublewedge}{largesymbols}{\mathop}
1522 \fdsy@DeclareAlias{\dconjquant}{largesymbols}{\mathop}
1523 \fdsy@DeclareSymbol{\tbigdoublevee}{largesymbols}{\mathop}
1524 \fdsy@DeclareAlias{\tdisjquant}{largesymbols}{\mathop}
1525 \fdsy@DeclareSymbol{\dbigdoublevee}{largesymbols}{\mathop}
1526 \fdsy@DeclareAlias{\ddisjquant}{largesymbols}{\mathop}
1527 \fdsy@DeclareSymbol{\tbigcurlywedge}{largesymbols}{\mathop}
1528 \fdsy@DeclareSymbol{\dbigcurlywedge}{largesymbols}{\mathop}
1529 \fdsy@DeclareSymbol{\tbigcurlyvee}{largesymbols}{\mathop}
1530 \fdsy@DeclareSymbol{\dbigcurlyvee}{largesymbols}{\mathop}
1531 \fdsy@DeclareSymbol{\tbigcap}{largesymbols}{\mathop}
1532 \fdsy@DeclareSymbol{\dbigcap}{largesymbols}{\mathop}
1533 \fdsy@DeclareSymbol{\tbigcup}{largesymbols}{\mathop}
1534 \fdsy@DeclareSymbol{\dbigcup}{largesymbols}{\mathop}
1535 \fdsy@DeclareSymbol{\tbigcapdot}{largesymbols}{\mathop}
1536 \fdsy@DeclareSymbol{\dbigcapdot}{largesymbols}{\mathop}
1537 \fdsy@DeclareSymbol{\tbigcupdot}{largesymbols}{\mathop}
1538 \fdsy@DeclareSymbol{\dbigcupdot}{largesymbols}{\mathop}
1539 \fdsy@DeclareSymbol{\tbigcapplus}{largesymbols}{\mathop}
1540 \fdsy@DeclareSymbol{\dbigcapplus}{largesymbols}{\mathop}
1541 \fdsy@DeclareSymbol{\tbigcupplus}{largesymbols}{\mathop}
1542 \fdsy@DeclareAlias{\tbiguplus}{largesymbols}{\mathop}
1543 \fdsy@DeclareSymbol{\dbigcupplus}{largesymbols}{\mathop}
1544 \fdsy@DeclareAlias{\dbiguplus}{largesymbols}{\mathop}
1545 \fdsy@DeclareSymbol{\tbigsqcap}{largesymbols}{\mathop}
1546 \fdsy@DeclareSymbol{\dbigsqcap}{largesymbols}{\mathop}
1547 \fdsy@DeclareSymbol{\tbigsqcup}{largesymbols}{\mathop}
1548 \fdsy@DeclareSymbol{\dbigsqcup}{largesymbols}{\mathop}

```

```

1549 \fdsy@DeclareSymbol{\tbigsqcapdot}{largesymbols}{\mathop}
1550 \fdsy@DeclareSymbol{\dbigsqcapdot}{largesymbols}{\mathop}
1551 \fdsy@DeclareSymbol{\tbigsqcupdot}{largesymbols}{\mathop}
1552 \fdsy@DeclareSymbol{\dbigsqcupdot}{largesymbols}{\mathop}
1553 \fdsy@DeclareSymbol{\tbigsqcapplus}{largesymbols}{\mathop}
1554 \fdsy@DeclareSymbol{\dbigsqcapplus}{largesymbols}{\mathop}
1555 \fdsy@DeclareSymbol{\tbigsqcupplus}{largesymbols}{\mathop}
1556 \fdsy@DeclareSymbol{\dbigsqcupplus}{largesymbols}{\mathop}
1557 \fdsy@DeclareSymbol{\tbigoplus}{largesymbols}{\mathop}
1558 \fdsy@DeclareSymbol{\dbigoplus}{largesymbols}{\mathop}
1559 \fdsy@DeclareSymbol{\tbigotimes}{largesymbols}{\mathop}
1560 \fdsy@DeclareSymbol{\dbigotimes}{largesymbols}{\mathop}
1561 \fdsy@DeclareSymbol{\tbigodot}{largesymbols}{\mathop}
1562 \fdsy@DeclareSymbol{\dbigodot}{largesymbols}{\mathop}
1563 \fdsy@DeclareSymbol{\tbigooast}{largesymbols}{\mathop}
1564 \fdsy@DeclareSymbol{\dbigoast}{largesymbols}{\mathop}
1565 \fdsy@DeclareSymbol{\tprod}{largesymbols}{\mathop}
1566 \fdsy@DeclareSymbol{\dprod}{largesymbols}{\mathop}
1567 \fdsy@DeclareSymbol{\tcoproduct}{largesymbols}{\mathop}
1568 \fdsy@DeclareSymbol{\dcoproduct}{largesymbols}{\mathop}
1569 \fdsy@DeclareSymbol{\tsum}{largesymbols}{\mathop}
1570 \fdsy@DeclareSymbol{\dsum}{largesymbols}{\mathop}
1571 \fdsy@DeclareSymbol{\tosum}{largesymbols}{\mathop}
1572 \fdsy@DeclareAlias{\tmodtwosum}{largesymbols}{\mathop}
1573 \fdsy@DeclareSymbol{\dosum}{largesymbols}{\mathop}
1574 \fdsy@DeclareAlias{\dmodtwosum}{largesymbols}{\mathop}
1575 \fdsy@DeclareSymbol{\tint}{largesymbols}{\mathop}
1576 \fdsy@DeclareSymbol{\dint}{largesymbols}{\mathop}
1577 \fdsy@DeclareSymbol{\ttiint}{largesymbols}{\mathop}
1578 \fdsy@DeclareSymbol{\diiint}{largesymbols}{\mathop}
1579 \fdsy@DeclareSymbol{\tiiint}{largesymbols}{\mathop}
1580 \fdsy@DeclareSymbol{\diiiint}{largesymbols}{\mathop}
1581 \fdsy@DeclareSymbol{\tiiiint}{largesymbols}{\mathop}
1582 \fdsy@DeclareSymbol{\diiiiint}{largesymbols}{\mathop}
1583 \fdsy@DeclareSymbol{\tidotsint}{largesymbols}{\mathop}
1584 \fdsy@DeclareAlias{\tdotsint}{largesymbols}{\mathop}
1585 \fdsy@DeclareSymbol{\didotsint}{largesymbols}{\mathop}
1586 \fdsy@DeclareAlias{\ddotsint}{largesymbols}{\mathop}
1587 \fdsy@DeclareSymbol{\tlandupint}{largesymbols}{\mathop}
1588 \fdsy@DeclareAlias{\tintclockwise}{largesymbols}{\mathop}
1589 \fdsy@DeclareSymbol{\dlandupint}{largesymbols}{\mathop}
1590 \fdsy@DeclareAlias{\dintclockwise}{largesymbols}{\mathop}
1591 \fdsy@DeclareSymbol{\tlanddownint}{largesymbols}{\mathop}
1592 \fdsy@DeclareAlias{\tawint}{largesymbols}{\mathop}
1593 \fdsy@DeclareAlias{\tintctrlockwise}{largesymbols}{\mathop}

```

```

1594 \fdsy@DeclareSymbol{\dladdownint}{largesymbols}{\mathop}
1595 \fdsy@DeclareAlias{\dawint}{largesymbols}{\mathop}
1596 \fdsy@DeclareAlias{\dintctrclockwise}{largesymbols}{\mathop}
1597 \fdsy@DeclareSymbol{\tintbar}{largesymbols}{\mathop}
1598 \fdsy@DeclareSymbol{\dintbar}{largesymbols}{\mathop}
1599 \fdsy@DeclareSymbol{\tintBar}{largesymbols}{\mathop}
1600 \fdsy@DeclareSymbol{\dintBar}{largesymbols}{\mathop}
1601 \fdsy@DeclareSymbol{\tfint}{largesymbols}{\mathop}
1602 \fdsy@DeclareSymbol{\dfint}{largesymbols}{\mathop}
1603 \fdsy@DeclareSymbol{\toint}{largesymbols}{\mathop}
1604 \fdsy@DeclareSymbol{\doint}{largesymbols}{\mathop}
1605 \fdsy@DeclareSymbol{\toiint}{largesymbols}{\mathop}
1606 \fdsy@DeclareSymbol{\doiint}{largesymbols}{\mathop}
1607 \fdsy@DeclareSymbol{\toiiint}{largesymbols}{\mathop}
1608 \fdsy@DeclareSymbol{\doiiint}{largesymbols}{\mathop}
1609 \fdsy@DeclareSymbol{\trcircularrightint}{largesymbols}{\mathop}
1610 \fdsy@DeclareAlias{\tointctrclockwise}{largesymbols}{\mathop}
1611 \fdsy@DeclareSymbol{\drcircularrightint}{largesymbols}{\mathop}
1612 \fdsy@DeclareAlias{\dointctrclockwise}{largesymbols}{\mathop}
1613 \fdsy@DeclareSymbol{\tlcircularrightint}{largesymbols}{\mathop}
1614 \fdsy@DeclareAlias{\tvarointclockwise}{largesymbols}{\mathop}
1615 \fdsy@DeclareSymbol{\dlcircularrightint}{largesymbols}{\mathop}
1616 \fdsy@DeclareAlias{\dvarointclockwise}{largesymbols}{\mathop}
1617 \fdsy@DeclareSymbol{\trcircleleftint}{largesymbols}{\mathop}
1618 \fdsy@DeclareAlias{\tvarointctrclockwise}{largesymbols}{\mathop}
1619 \fdsy@DeclareSymbol{\drcircleleftint}{largesymbols}{\mathop}
1620 \fdsy@DeclareAlias{\dvarointctrclockwise}{largesymbols}{\mathop}
1621 \fdsy@DeclareSymbol{\tlcircleleftint}{largesymbols}{\mathop}
1622 \fdsy@DeclareAlias{\tointclockwise}{largesymbols}{\mathop}
1623 \fdsy@DeclareSymbol{\dlcircleleftint}{largesymbols}{\mathop}
1624 \fdsy@DeclareAlias{\dointclockwise}{largesymbols}{\mathop}
1625 \fdsy@DeclareSymbol{\tsumint}{largesymbols}{\mathop}
1626 \fdsy@DeclareSymbol{\dsumint}{largesymbols}{\mathop}
1627 \let\intop\tint
1628 \let\ointop\toint
1629
1630 \fdsy@DeclareOperator{\bigplus}{\dbigplus}{\tbigplus}
1631 \fdsy@DeclareOperator{\bigtimes}{\dbigtimes}{\tbigtimes}
1632 \fdsy@DeclareOperator{\bigwedge}{\dbigwedge}{\tbigwedge}
1633 \fdsy@DeclareOperator{\bigvee}{\dbigvee}{\tbigvee}
1634 \fdsy@DeclareOperator{\bigwedgedot}{\dbigwedgedot}{\tbigwedgedot}
1635 \fdsy@DeclareOperator{\bigveedot}{\dbigveedot}{\tbigveedot}
1636 \fdsy@DeclareOperator{\bigdoublewedge}{\dbigdoublewedge}{\tbigdoublewedge}
1637 \fdsy@DeclareOperator{\conjquant}{\dconjquant}{\tconjquant}
1638 \fdsy@DeclareOperator{\bigdoublevee}{\dbigdoublevee}{\tbigdoublevee}

```

```

1639 \fdsy@DeclareOperator{\disjquant}{\ddisjquant}{\tdisjquant}
1640 \fdsy@DeclareOperator{\bigcurlywedge}{\dbigcurlywedge}{\tbigcurlywedge}
1641 \fdsy@DeclareOperator{\bigcurlyvee}{\dbigcurlyvee}{\tbigcurlyvee}
1642 \fdsy@DeclareOperator{\bigcurlywedgedot}{\dbigcurlywedgedot}{\tbigcurlywedgedot}
1643 \fdsy@DeclareOperator{\bigcurlyveedot}{\dbigcurlyveedot}{\tbigcurlyveedot}
1644 \fdsy@DeclareOperator{\bigdoublecurlywedge}{\dbigdoublecurlywedge}{\tbigdoublecurlywedge}
1645 \fdsy@DeclareOperator{\bigdoublecurlyvee}{\dbigdoublecurlyvee}{\tbigdoublecurlyvee}
1646 \fdsy@DeclareOperator{\bigcap}{\dbigcap}{\tbigcap}
1647 \fdsy@DeclareOperator{\bigcup}{\dbigcup}{\tbigcup}
1648 \fdsy@DeclareOperator{\bigcapdot}{\dbigcapdot}{\tbigcapdot}
1649 \fdsy@DeclareOperator{\bigcupdot}{\dbigcupdot}{\tbigcupdot}
1650 \fdsy@DeclareOperator{\bigcapplus}{\dbigcapplus}{\tbigcapplus}
1651 \fdsy@DeclareOperator{\bigcupplus}{\dbigcupplus}{\tbigcupplus}
1652 \fdsy@DeclareOperator{\biguplus}{\dbiguplus}{\tbiguplus}
1653 \fdsy@DeclareOperator{\bigsqcap}{\dbigsqcap}{\tbigsqcap}
1654 \fdsy@DeclareOperator{\bigsqcup}{\dbigsqcup}{\tbigsqcup}
1655 \fdsy@DeclareOperator{\bigsqcapdot}{\dbigsqcapdot}{\tbigsqcapdot}
1656 \fdsy@DeclareOperator{\bigsqcupdot}{\dbigsqcupdot}{\tbigsqcupdot}
1657 \fdsy@DeclareOperator{\bigsqcapplus}{\dbigsqcapplus}{\tbigsqcapplus}
1658 \fdsy@DeclareOperator{\bigsqcupplus}{\dbigsqcupplus}{\tbigsqcupplus}
1659 \fdsy@DeclareOperator{\bigoplus}{\dbigoplus}{\tbigoplus}
1660 \fdsy@DeclareOperator{\bigotimes}{\dbigotimes}{\tbigotimes}
1661 \fdsy@DeclareOperator{\bigodot}{\dbigodot}{\tbigodot}
1662 \fdsy@DeclareOperator{\bigooast}{\dbigoast}{\tbigooast}
1663 \fdsy@DeclareOperator{\sum}{\dsum}{\tsum}
1664 \fdsy@DeclareOperator{\osum}{\dosum}{\tosum}
1665 \fdsy@DeclareOperator{\modtwosum}{\dmodtwosum}{\tmodtwosum}
1666 \fdsy@DeclareOperator{\prod}{\dprod}{\tprod}
1667 \fdsy@DeclareOperator{\coprod}{\dcoprod}{\tcoprod}
1668 \fdsy@DeclareIntegral{\iint}{\diint}{\tiint}
1669 \fdsy@DeclareIntegral{\iiint}{\diiint}{\tiiiint}
1670 \fdsy@DeclareIntegral{\iiiiint}{\diiiiint}{\tiiiint}
1671 \fdsy@DeclareIntegral{\idotsint}{\didotsint}{\tidotsint}
1672 \fdsy@DeclareIntegral{\dotsint}{\ddotsint}{\tdotsint}
1673 \fdsy@DeclareIntegral{\landupint}{\dlandupint}{\tlandupint}
1674 \fdsy@DeclareIntegral{\intclockwise}{\dintclockwise}{\tintclockwise}
1675 \fdsy@DeclareIntegral{\landdownint}{\dlanddownint}{\tlanddownint}
1676 \fdsy@DeclareIntegral{\awint}{\dawint}{\tawint}
1677 \fdsy@DeclareIntegral{\intctrlockwise}{\dintctrlockwise}{\tintctrlockwise}
1678 \fdsy@DeclareIntegral{\landdownint}{\dlanddownint}{\tlanddownint}
1679 \fdsy@DeclareIntegral{\intbar}{\dintbar}{\tintbar}
1680 \fdsy@DeclareIntegral{\intBar}{\dintBar}{\tintBar}
1681 \fdsy@DeclareIntegral{\fint}{\dfint}{\tfint}
1682 \fdsy@DeclareIntegral{\oiint}{\doiint}{\toiint}
1683 \fdsy@DeclareIntegral{\oiiint}{\doiiint}{\toiiint}

```



```

1684 \fdsy@DeclareIntegral{\rcirclerightint}{\drcirclerightint}{\trcirclerightint}
1685 \fdsy@DeclareIntegral{\ointctrcclockwise}{\dointctrcclockwise}{\tointctrcclockwise}
1686 \fdsy@DeclareIntegral{\lcirclerightint}{\dlcirclerightint}{\tlcirclerightint}
1687 \fdsy@DeclareIntegral{\varointclockwise}{\dvarointclockwise}{\tvarointclockwise}
1688 \fdsy@DeclareIntegral{\rcircleleftint}{\drcircleleftint}{\trcircleleftint}
1689 \fdsy@DeclareIntegral{\varointctrcclockwise}{\dvarointctrcclockwise}{\tvarointctrcclockwise}
1690 \fdsy@DeclareIntegral{\lcircleleftint}{\dlcircleleftint}{\tlcircleleftint}
1691 \fdsy@DeclareIntegral{\ointclockwise}{\dointclockwise}{\tointclockwise}
1692 \fdsy@DeclareIntegral{\sumint}{\dsumint}{\tsumint}
1693
1694 \def\intkern@{\mkern-8.5mu\mathchoice{\mkern-1mu}{\}{\}}
1695 \def\intdots@{\mkern-6mu%
1696   \mathchoice{\@cdots}%
1697   {{\cdotp}\mkern0.5mu{\cdotp}\mkern0.5mu{\cdotp}}%
1698   {{\cdotp}{\cdotp}{\cdotp}}%
1699   {{\cdotp}{\cdotp}{\cdotp}}%
1700   \mkern-6mu}

Math accents.
1701 \DeclareMathAccent{\widehat}{\mathord}{largesymbols}{72}
1702 \DeclareMathAccent{\widetilde}{\mathord}{largesymbols}{78}
1703 \DeclareMathAccent{\wideparen}{\mathord}{largesymbols}{7E}
1704 \DeclareMathAccent{\vec}{\mathord}{largesymbols}{84}
1705 \DeclareMathAccent{\middlebar}{\mathord}{largesymbols}{85}
1706 \DeclareMathAccent{\middleslash}{\mathord}{largesymbols}{86}
1707 \DeclareMathAccent{\strokethrough}{\mathord}{largesymbols}{87}

FdSymbolF: delimiters
1708 \let\lfloor\undefined
1709 \let\rfloor\undefined
1710 \let\lceil\undefined
1711 \let\rceil\undefined
1712 \let\angle\undefined
1713 \let\rangle\undefined
1714 \iffdsy@largedelims
1715 \fdsy@DeclareOpen{(){delimiters}{01}
1716 \fdsy@DeclareClose{()){delimiters}{07}
1717 \fdsy@DeclareOpen{\lparen}{delimiters}{01}
1718 \fdsy@DeclareClose{\rparen}{delimiters}{07}
1719 \fdsy@DeclareOpen{[]}{delimiters}{13}
1720 \fdsy@DeclareClose{[]}{}{delimiters}{19}
1721 \fdsy@DeclareOpen{\lbrack}{delimiters}{13}
1722 \fdsy@DeclareClose{\rbrack}{delimiters}{19}
1723 \fdsy@DeclareOpen{\lfloor}{delimiters}{1F}
1724 \fdsy@DeclareClose{\rfloor}{delimiters}{25}
1725 \fdsy@DeclareOpen{\lceil}{delimiters}{2B}
1726 \fdsy@DeclareClose{\rceil}{delimiters}{31}

```

```

1727 \fdsy@DeclareOpen{\ulcorner}{delimiters}{"37}
1728 \fdsy@DeclareClose{\urcorner}{delimiters}{"3D}
1729 \fdsy@DeclareOpen{\llcorner}{delimiters}{"43}
1730 \fdsy@DeclareClose{\lrcorner}{delimiters}{"49}
1731 \fdsy@DeclareOpen{\ulcorner}{delimiters}{"4F}
1732 \fdsy@DeclareClose{\ulrcorner}{delimiters}{"55}
1733 \fdsy@DeclareOpen{\lsem}{delimiters}{"61}
1734 \fdsy@DeclareClose{\rsem}{delimiters}{"67}
1735 \fdsy@DeclareOpen{\lBrack}{delimiters}{"61}
1736 \fdsy@DeclareClose{\rBrack}{delimiters}{"67}
1737 \fdsy@DeclareOpen{\lbrace}{delimiters}{"73}
1738 \fdsy@DeclareClose{\rbrace}{delimiters}{"79}
1739 \fdsy@DeclareOpen{<}{delimiters}{"86}
1740 \fdsy@DeclareClose{>}{delimiters}{"8C}
1741 \fdsy@DeclareOpen{\langle}{delimiters}{"86}
1742 \fdsy@DeclareClose{\rangle}{delimiters}{"8C}
1743 \fdsy@DeclareOpen{\lAngle}{delimiters}{"92}
1744 \fdsy@DeclareClose{\rAngle}{delimiters}{"98}
1745 \fdsy@DeclareOpen{\langedot}{delimiters}{"9E}
1746 \fdsy@DeclareClose{\rangedot}{delimiters}{"A4}
1747 \fdsy@DeclareDelimiter{/}{\mathord}{delimiters}{"AA}
1748 \fdsy@DeclareDelimiter{\mathslash}{\mathord}{delimiters}{"AA}
1749 \DeclareMathSymbol{\divslash}{\mathbin}{delimiters}{"AA}
1750 \fdsy@DeclareDelimiter{\backslash}{\mathord}{delimiters}{"B0}
1751 \expandafter\DeclareMathDelimiter\@backslashchar%
1752   {\mathord}{delimiters}{"B0}{delimiters}{"B0}
1753 \DeclareMathSymbol{\setminus}{\mathbin}{delimiters}{"B0}
1754 \fdsy@DeclareDelimiter{|}{\mathord}{delimiters}{"B7}
1755 \fdsy@DeclareDelimiter{\vert}{\mathord}{delimiters}{"B7}
1756 \fdsy@DeclareOpen{\lvert}{delimiters}{"B7}
1757 \fdsy@DeclareClose{\rvert}{delimiters}{"B7}
1758 \DeclareMathSymbol{\mid}{\mathrel}{delimiters}{"B7}
1759 \DeclareMathSymbol{\nmid}{\mathrel}{delimiters}{"BA}
1760 \fdsy@DeclareDelimiter{\Vert}{\mathord}{delimiters}{"BE}
1761 \fdsy@DeclareOpen{\lVert}{delimiters}{"BE}
1762 \fdsy@DeclareClose{\rVert}{delimiters}{"BE}
1763 \DeclareMathSymbol{\parallel}{\mathrel}{delimiters}{"BE}
1764 \DeclareMathSymbol{\nparallel}{\mathrel}{delimiters}{"C1}
1765 \fdsy@DeclareDelimiter{\Vvert}{\mathord}{delimiters}{"C4}
1766 \fdsy@DeclareOpen{\lVvert}{delimiters}{"C4}
1767 \fdsy@DeclareClose{\rVvert}{delimiters}{"C4}
1768 \else
1769 \fdsy@DeclareOpen{()}{delimiters}{"00}
1770 \fdsy@DeclareClose{}{delimiters}{"06}
1771 \fdsy@DeclareOpen{\lparen}{delimiters}{"00}

```

```

1772 \fdsy@DeclareClose{\rparen}{delimiters}"06}
1773 \fdsy@DeclareOpen{[]}{delimiters}"12}
1774 \fdsy@DeclareClose{[]}{delimiters}"18}
1775 \fdsy@DeclareOpen{\lbrack}{delimiters}"12}
1776 \fdsy@DeclareClose{\rbrack}{delimiters}"18}
1777 \fdsy@DeclareOpen{\lfloor}{delimiters}"1E}
1778 \fdsy@DeclareClose{\rfloor}{delimiters}"24}
1779 \fdsy@DeclareOpen{\lceil}{delimiters}"2A}
1780 \fdsy@DeclareClose{\rceil}{delimiters}"30}
1781 \fdsy@DeclareOpen{\ulcorner}{delimiters}"36}
1782 \fdsy@DeclareClose{\urcorner}{delimiters}"3C}
1783 \fdsy@DeclareOpen{\llcorner}{delimiters}"42}
1784 \fdsy@DeclareClose{\lrcorner}{delimiters}"48}
1785 \fdsy@DeclareOpen{\ulcorner}{delimiters}"4E}
1786 \fdsy@DeclareClose{\ulcorner}{delimiters}"54}
1787 \fdsy@DeclareOpen{\lsem}{delimiters}"60}
1788 \fdsy@DeclareClose{\rsem}{delimiters}"66}
1789 \fdsy@DeclareOpen{\lBrack}{delimiters}"60}
1790 \fdsy@DeclareClose{\rBrack}{delimiters}"66}
1791 \fdsy@DeclareOpen{\lbrace}{delimiters}"72}
1792 \fdsy@DeclareClose{\rbrace}{delimiters}"78}
1793 \fdsy@DeclareOpen{<}{delimiters}"85}
1794 \fdsy@DeclareClose{>}{delimiters}"8B}
1795 \fdsy@DeclareOpen{\langle}{delimiters}"85}
1796 \fdsy@DeclareClose{\rangle}{delimiters}"8B}
1797 \fdsy@DeclareOpen{\lAngle}{delimiters}"91}
1798 \fdsy@DeclareClose{\rAngle}{delimiters}"97}
1799 \fdsy@DeclareOpen{\langedot}{delimiters}"9D}
1800 \fdsy@DeclareClose{\rangedot}{delimiters}"A3}
1801 \fdsy@DeclareDelimiter{/}{\mathord}{delimiters}"A9}
1802 \fdsy@DeclareDelimiter{\mathslash}{\mathord}{delimiters}"A9}
1803 \DeclareMathSymbol{\divslash}{\mathbin}{delimiters}"A9}
1804 \fdsy@DeclareDelimiter{\backslash}{\mathord}{delimiters}"AF}
1805 \expandafter\DeclareMathDelimiter\@backslashchar%
1806 {\mathord}{delimiters}"AF}{delimiters}"AF}
1807 \DeclareMathSymbol{\setminus}{\mathbin}{delimiters}"AF}
1808 \fdsy@DeclareDelimiter{|}{\mathord}{delimiters}"B6}
1809 \fdsy@DeclareDelimiter{\vert}{\mathord}{delimiters}"B6}
1810 \fdsy@DeclareOpen{\lvert}{delimiters}"B6}
1811 \fdsy@DeclareClose{\rvert}{delimiters}"B6}
1812 \DeclareMathSymbol{\mid}{\mathrel}{delimiters}"B6}
1813 \DeclareMathSymbol{\nmid}{\mathrel}{delimiters}"B9}
1814 \fdsy@DeclareDelimiter{\Vert}{\mathord}{delimiters}"BD}
1815 \fdsy@DeclareOpen{\lVert}{delimiters}"BD}
1816 \fdsy@DeclareClose{\rVert}{delimiters}"BD}

```

```

1817 \DeclareMathSymbol{\parallel}{\mathrel}{delimiters}{"BD}
1818 \DeclareMathSymbol{\nparallel}{\mathrel}{delimiters}{"C0}
1819 \fdsy@DeclareDelimiter{\Vvert}{\mathord}{delimiters}{"C3}
1820 \fdsy@DeclareOpen{\lVvert}{delimiters}{"C3}
1821 \fdsy@DeclareClose{\rVvert}{delimiters}{"C3}
1822 \fi
1823 \let\|\Vvert
1824 \let\divides\mid
1825 \let\ndivides\nmid
1826 \DeclareMathSymbol{\shortmid}{\mathrel}{delimiters}{"B5}
1827 \DeclareMathSymbol{\nshortmid}{\mathrel}{delimiters}{"B8}
1828 \DeclareMathSymbol{\shortparallel}{\mathrel}{delimiters}{"BC}
1829 \DeclareMathSymbol{\nshortparallel}{\mathrel}{delimiters}{"BF}
1830 \fdsy@DeclareDelimiter{\arrowvert}{\mathord}{delimiters}{"BB}
1831 \fdsy@DeclareDelimiter{\Arrowvert}{\mathord}{delimiters}{"C2}
1832 \fdsy@DeclareClose{\lgrouper}{delimiters}{"7E}
1833 \fdsy@DeclareOpen{\rgrouper}{delimiters}{"7F}
1834 \fdsy@DeclareClose{\rmoustache}{delimiters}{"80}
1835 \fdsy@DeclareOpen{\lmoustache}{delimiters}{"81}
1836 \fdsy@DeclareDelimiter{\bracevert}{\mathord}{delimiters}{"84}
1837 \let\uparrow\undefined
1838 \let\downarrow\undefined
1839 \let\updownarrow\undefined
1840 \let\Uparrow\undefined
1841 \let\Downarrow\undefined
1842 \let\Updownarrow\undefined
1843 \DeclareMathDelimiter{\uparrow}{\mathrel}{arrows}{"01}{delimiters}{"C6}
1844 \DeclareMathDelimiter{\downarrow}{\mathrel}{arrows}{"03}{delimiters}{"C7}
1845 \DeclareMathDelimiter{\updownarrow}{\mathrel}{arrows}{"11}{delimiters}{"C8}
1846 \DeclareMathDelimiter{\Uparrow}{\mathrel}{arrows}{"09}{delimiters}{"C9}
1847 \DeclareMathDelimiter{\Downarrow}{\mathrel}{arrows}{"0B}{delimiters}{"CA}
1848 \DeclareMathDelimiter{\Updownarrow}{\mathrel}{arrows}{"15}{delimiters}{"CB}

```

Horizontal braces.

```

1849 \DeclareMathSymbol{\braced}{\mathord}{delimiters}{"CC}
1850 \DeclareMathSymbol{\bracelu}{\mathord}{delimiters}{"CD}
1851 \DeclareMathSymbol{\bracerd}{\mathord}{delimiters}{"CE}
1852 \DeclareMathSymbol{\braceru}{\mathord}{delimiters}{"CF}
1853 \DeclareMathSymbol{\bracemd}{\mathord}{delimiters}{"D0}
1854 \DeclareMathSymbol{\bracemu}{\mathord}{delimiters}{"D1}
1855 \DeclareMathSymbol{\bracemid}{\mathord}{delimiters}{"D2}
1856
1857 \def\bracefill@#1#2#3#4#5{%
1858   $m@th#5#1\leaders\hbox{$#4$}\hfill#2\leaders\hbox{$#4$}\hfill#3$%
1859 }
1860 \def\downbracefill@{\bracefill@\braced\bracemd\bracerd\bracemid}

```

```

1861 \def\upbracefill@{\bracefill@\bracelu\bracemu\braceru\bracemid}
1862 \def\downgroupfill@{\bracefill@\braceld{}\bracerd\bracemid}
1863 \def\upgroupfill@{\bracefill@\bracelu{}\braceru\bracemid}
1864 \def\linesegmentfill@{\arrowfill@\leftfootline\relbar\rightfootline}
1865 \def\leftharpoonfill@{\arrowfill@\leftharpoondown\relbar\relbar}
1866 \def\rightharpoonfill@{\arrowfill@\relbar\relbar\rightharpoonup}
1867
1868 \DeclareRobustCommand{\overbrace}[1]{%
1869   \mathop{\mathpalette{\overarrow@\downbracefill@}{#1}}\limits%
1870 }
1871 \DeclareRobustCommand{\underbrace}[1]{%
1872   \mathop{\mathpalette{\underarrow@\upbracefill@}{#1}}\limits%
1873 }
1874 \DeclareRobustCommand{\overgroup}{\mathpalette{\overarrow@\downgroupfill@}}
1875 \DeclareRobustCommand{\undergroup}{\mathpalette{\underarrow@\upgroupfill@}}
1876 \DeclareRobustCommand{\overlinesegment}{\mathpalette{\overarrow@\linesegmentfill@}}
1877 \DeclareRobustCommand{\overleftharpoon}{\mathpalette{\overarrow@\leftharpoonfill@}}
1878 \DeclareRobustCommand{\overrightharpoon}{\mathpalette{\overarrow@\rightharpoonfill@}}
1879 \DeclareRobustCommand{\underlinesegment}{\mathpalette{\underarrow@\linesegmentfill@}}

```

Radical symbols.

```

1880 \iffdsy@largedelims
1881 \DeclareMathRadical{\sqrtsign}{delimiters}"D4}{delimiters}"D4}
1882 \DeclareMathSymbol{\surd}{\mathop}{delimiters}"D4}
1883 \else
1884 \DeclareMathRadical{\sqrtsign}{delimiters}"D3}{delimiters}"D3}
1885 \DeclareMathSymbol{\surd}{\mathop}{delimiters}"D3}
1886 \fi

```

In the n -th root, we don't want the n to come too close to the radical (adopted from package lucimatx).

```

1887 \def\r@@t#1#2{\setbox\z@\hbox{$\m@th#1\sqrt{#2}$}%
1888   \dimen@ \ht\z@ \advance\dimen@-\dp\z@
1889   \mkern5mu\raise.6\dimen@ \copy\rootbox \mkern-8mu\box\z@}

```

Mathchars.

```

1890 \DeclareMathSymbol{+}{\mathbin}{symbols}"11}
1891 \DeclareMathSymbol{-}{\mathbin}{symbols}"0E}
1892 \DeclareMathSymbol{*}{\mathbin}{symbols}"98}
1893 \DeclareMathSymbol{:}{\mathrel}{symbols}"02}
1894 \DeclareMathSymbol{=}{\mathrel}{relations}"00}
1895 \DeclareMathSymbol{<}{\mathrel}{relations}"24}
1896 \DeclareMathSymbol{>}{\mathrel}{relations}"25}
1897 \iffdsy@largedelims
1898 \DeclareMathSymbol{|}{\mathord}{delimiters}"B6}
1899 \DeclareMathSymbol{(}{\mathopen}{delimiters}"01}
1900 \DeclareMathSymbol{)}{\mathclose}{delimiters}"07}

```

```

1901 \DeclareMathSymbol{[}{\mathopen}{delimiters}{"13}
1902 \DeclareMathSymbol{]}{\mathclose}{delimiters}{"19}
1903 \DeclareMathSymbol{/}{\mathord}{delimiters}{"AA}
1904 \else
1905 \DeclareMathSymbol{|}{\mathord}{delimiters}{"B5}
1906 \DeclareMathSymbol{(}{\mathopen}{delimiters}{"00}
1907 \DeclareMathSymbol{)}{\mathclose}{delimiters}{"06}
1908 \DeclareMathSymbol{[}{\mathopen}{delimiters}{"12}
1909 \DeclareMathSymbol{]}{\mathclose}{delimiters}{"18}
1910 \DeclareMathSymbol{/}{\mathord}{delimiters}{"A9}
1911 \fi

```

There is no `\not` symbol in `FdSymbol` since all relational symbols come with a stroked companion. For compatibility we define a `\not` command that places a virgule over the following symbol.

```

1912 \def\c@ncel#1#2{\m@th\oalign{$\hfil#1/\hfil$\cr\c@ncel$#1#2$}}
1913 \def\not#1{\mathrel{\m@th\mathpalette\c@ncel{#1}}}
1914 \end{style}

```