

FdSymbol: A Math Symbol Font

Michael Ummels
michael.ummels@rwth-aachen.de

v0.6a – 2011/05/30

Contents

1	Introduction	1
2	Interferences with other packages	2
3	Font selection	2
4	Symbols	3
4.1	Ordinary symbols	3
4.2	Binary operators	4
4.3	Relations	6
4.4	Punctuation symbols	16
4.5	Large operators	16
4.6	Delimiters and accents	17
4.7	Faked symbols	18
4.8	Missing symbols	19
5	Implementation	19

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}
```

¹<http://www.typotheque.com/fonts>

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.

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.

²<http://www.ctan.org/tex-archive/fonts/mnsymbol/>

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

\cdots	<code>\hdots</code>	\blacklozenge	<code>\smallblacklozenge,</code> <code>\smbklozenge</code>
\vdots	<code>\vdots</code>	\lozenge	<code>\medlozenge, \lozenge,</code> <code>\mdlghtlozenge,</code> <code>\mdwhtlozenge</code>
\cdotp	<code>\udots, \adots</code>	\blacklozenge	<code>\medblacklozenge,</code> <code>\blacklozenge,</code> <code>\mdlgbklozenge,</code> <code>\mdbklozenge</code>
\ddots	<code>\ddots</code>	\lozenge	<code>\lozengeminus</code>
\therefore	<code>\righttherefore</code>	\star	<code>\largewhitestar</code>
\uptherefore	<code>\uptherefore, \therefore</code>	\bigstar	<code>\largeblackstar, \bigstar</code>
\lefttherefore	<code>\lefttherefore</code>	∞	<code>\infty</code>
\downtherefore	<code>\downtherefore, \because</code>	\angle	<code>\angle</code>
\squaredots	<code>\squaredots</code>	\sphericalangle	<code>\sphericalangle</code>
\neg	<code>\neg, \lnot</code>	\sphericalangleup	<code>\sphericalangleup</code>
\backneg	<code>\backneg, \invnot, \invneg</code>	\sphericalangleleft	<code>\sphericalangleleft,</code> <code>\revsphericalangle, \gtlpar</code>
\turnedneg	<code>\turnedneg, \turnednot</code>	\sphericalangledown	<code>\sphericalangledown</code>
\turnedbackneg	<code>\turnedbackneg</code>	\rightangle	<code>\rightangle</code>
\bigtriangleup	<code>\bigtriangleup</code>		
\bigtriangledown	<code>\bigtriangledown</code>		
\emptyset	<code>\emptyset, \diameter,</code> <code>\varnothing</code>		
\reemptyset	<code>\reemptyset</code>		
\bigcirc	<code>\largecircle, \lgwhtcircle</code>		
\bullet	<code>\largeblackcircle</code>		
\square	<code>\largetsquare, \lgwhtsquare</code>		
\blacksquare	<code>\largeblacksquare,</code> <code>\lgblksquare</code>		
\lozenge	<code>\smalllozenge, \smwhtlozenge</code>		

\triangle	<code>\measuredrightangle</code>	\nexists	<code>\nexists</code>
\square	<code>\rightanglesquare,</code> <code>\rightanglesqr</code>	\Finv	<code>\Finv</code>
\trianglecdot	<code>\measuredrightangledot,</code> <code>\rightanglemdot</code>	\Game	<code>\Game</code>
\prime	<code>\prime</code>	\complement	<code>\complement</code>
\backprime	<code>\backprime</code>	\flat	<code>\flat</code>
\checkmark	<code>\checkmark</code>	\natural	<code>\natural</code>
\lightning	<code>\lightning, \downzigzagarrow</code>	\sharp	<code>\sharp</code>
\diamond	<code>\diamondsuit</code>	\aleph	<code>\aleph</code>
\blacklozenge	<code>\vardiamondsuit</code>	\beth	<code>\beth</code>
\heartsuit	<code>\heartsuit</code>	\gimel	<code>\gimel</code>
\varheartsuit	<code>\varheartsuit</code>	\daleth	<code>\daleth</code>
\spadesuit	<code>\spadesuit</code>	\wp	<code>\wp</code>
\clubsuit	<code>\clubsuit</code>	\top	<code>\top</code>
\maltese	<code>\maltese</code>	\bot	<code>\bot</code>
\starofdavid	<code>\starofdavid</code>	$/$	<code>/, \mathslash</code>
\sector	<code>\sector</code>	\backslash	<code>\backslash</code>
\forall	<code>\forall</code>	$ $	<code> , \vert</code>
\exists	<code>\exists</code>	$\ $	<code>\Vert</code>
		$\ $	<code>\Vvert</code>

4.2 Binary operators

\cdot	<code>\cdot</code>	$\dot{+}$	<code>\dotplus</code>
\centerdot	<code>\centerdot</code>	$\dot{+}$	<code>\plusdot</code>
\hdotdot	<code>\hdotdot</code>	$\dot{\times}$	<code>\dottimes</code>
\vdots	<code>\vdots</code>	\timesbar	<code>\timesbar</code>
\udots	<code>\udots</code>	\divontimes	<code>\divideontimes</code>
\ddots	<code>\ddots</code>	\intprod	<code>\intprod</code>
$-$	<code>-, \minus</code>	\intprodr	<code>\intprodr</code>
\medslash	<code>\medslash, \smalldivslash</code>	\leftthreetimes	<code>\leftthreetimes</code>
\medbackslash	<code>\medbackslash, \smallsetminus</code>	\rightthreetimes	<code>\rightthreetimes</code>
$+$	<code>+, \plus</code>	\times	<code>\dimes, \btimes</code>
\times	<code>\times</code>	\rtimes	<code>\rtimes</code>
$\dot{-}$	<code>\dotminus</code>	\utimes	<code>\utimes, \ttimes</code>
$\dot{-}$	<code>\minusdot</code>	\ltimes	<code>\ltimes</code>
\div	<code>\div</code>	\lrtimes	<code>\lrtimes</code>
\divdots	<code>\minusfdots</code>	\upbowtie	<code>\upbowtie, \hourglass</code>
\divdots	<code>\minusrdots</code>	\rightY	<code>\rightY</code>
\pm	<code>\pm</code>	\upY	<code>\upY</code>
\mp	<code>\mp</code>	\leftY	<code>\leftY</code>

Υ	<code>\downY</code>	\triangle	<code>\medtriangleup, \triangle,</code> <code>\vartriangle</code>
\wedge	<code>\wedge, \land</code>	\triangleleft	<code>\medtriangleleft,</code> <code>\triangleleft</code>
\vee	<code>\vee, \lor</code>	∇	<code>\medtriangledown,</code> <code>\triangledown</code>
\wedge	<code>\wedgedot</code>	\blacktriangleright	<code>\medblacktriangleright,</code> <code>\blacktriangleright</code>
\vee	<code>\veedot</code>	\blacktriangleup	<code>\medblacktriangleup,</code> <code>\blacktriangle</code>
\M	<code>\doublewedge, \wedgonwedge</code>	\blacktriangleleft	<code>\medblacktriangleleft,</code> <code>\blacktriangleleft</code>
\W	<code>\doublevee, \veeonwee</code>	\blacktriangledown	<code>\medblacktriangledown,</code> <code>\blacktriangledown</code>
\curlywedge	<code>\curlywedge</code>	\bigtriangleup	<code>\bigtriangleup</code>
\curlyvee	<code>\curlyvee</code>	\bigtriangledown	<code>\bigtriangledown</code>
$\bar{\wedge}$	<code>\barwedge</code>	\circ	<code>\smallcircle, \circ,</code> <code>\smwhtcircle</code>
$\bar{\vee}$	<code>\veebar</code>	\bullet	<code>\smallblackcircle, \bullet,</code> <code>\smbkcircle</code>
$\bar{\bar{\wedge}}$	<code>\doublebarwedge</code>	\bigcirc	<code>\medcircle, \mdlgwhtcircle,</code> <code>\mdwhtcircle</code>
$\bar{\bar{\vee}}$	<code>\veedoublebar</code>	\bullet	<code>\medblackcircle,</code> <code>\mdlgblkcircle, \mdblkcircle</code>
\cup	<code>\cup</code>	\ominus	<code>\ominus</code>
\cap	<code>\cap</code>	\oslash	<code>\overt, \circledvert</code>
\cup	<code>\doublecup, \Cup</code>	\oslash	<code>\oslash</code>
\cap	<code>\doublecap, \Cap</code>	\oslash	<code>\obackslash, \obslash</code>
\cup	<code>\cupdot</code>	\oplus	<code>\oplus</code>
\cap	<code>\capdot</code>	\otimes	<code>\otimes</code>
\cup	<code>\cupplus, \uplus</code>	\odot	<code>\odot</code>
\cap	<code>\capplus</code>	\odot	<code>\ocirc, \circledcirc</code>
\sqcup	<code>\sqcup</code>	\odot	<code>\oast, \circledast</code>
\sqcap	<code>\sqcap</code>	\odot	<code>\odash, \circleddash</code>
\sqcup	<code>\doublesqcup, \Sqcup</code>	\odot	<code>\oequal, \circledequal</code>
\sqcap	<code>\doublesqcap, \Sqcap</code>	\bigcirc	<code>\bigcirc</code>
\sqcup	<code>\sqcupdot</code>	\square	<code>\smallsquare, \smwhtsquare</code>
\sqcap	<code>\sqcapdot</code>	\blacksquare	<code>\smallblacksquare,</code> <code>\smbklsquare</code>
\sqcup	<code>\sqcupplus</code>	\square	<code>\medsquare, \square, \Box,</code> <code>\mdlgwhtsquare, \mdwhtsquare</code>
\sqcap	<code>\sqcapplus</code>		
\lrcorner	<code>\pullback</code>		
\rceil	<code>\pushout</code>		
\blacktriangleright	<code>\smalltriangleright</code>		
\triangleup	<code>\smalltriangleup</code>		
\triangleleft	<code>\smalltriangleleft</code>		
\triangledown	<code>\smalltriangledown</code>		
\blacktriangleright	<code>\smallblacktriangleright</code>		
\blacktriangleup	<code>\smallblacktriangleup</code>		
\blacktriangleleft	<code>\smallblacktriangleleft</code>		
\blacktriangledown	<code>\smallblacktriangledown</code>		
\blacktriangleright	<code>\medtriangleright,</code> <code>\triangleright</code>		

■	<code>\medblacksquare,</code> <code>\mdlgblksquare, \mdblksquare</code>	◇	<code>\diamondslash</code>
▢	<code>\boxminus</code>	◇	<code>\diamondbackslash,</code> <code>\diamondbslash</code>
▣	<code>\boxvert, \boxbar</code>	⋈	<code>\diamondplus</code>
▤	<code>\boxslash, \boxdiag</code>	⋈	<code>\diamondtimes</code>
▥	<code>\boxbackslash, \boxbslash</code>	◇	<code>\diamondddot, \diamondcdot</code>
⊞	<code>\boxplus</code>	⋈	<code>\diamondddiamond</code>
⊠	<code>\boxtimes</code>	☆	<code>\smallwhitestar, \smwhitestar</code>
▣	<code>\boxdot</code>	★	<code>\smallblackstar, \star</code>
▣	<code>\boxbox</code>	☆	<code>\medwhitestar</code>
◇	<code>\smalldiamond, \diamond,</code> <code>\smwhtdiamond</code>	★	<code>\medblackstar, \medstar</code>
◆	<code>\smallblackdiamond,</code> <code>\blackdiamond, \smbldiamond</code>	*	<code>*, \ast</code>
◇	<code>\meddiamond, \Diamond,</code> <code>\mdlgwhtdiamond,</code> <code>\mdwhtdiamond</code>	⌈	<code>\intercal</code>
◆	<code>\medblackdiamond,</code> <code>\mdlgblkdiamond,</code> <code>\mdblkdiamond</code>	⌋	<code>\wreath, \wr</code>
◇	<code>\diamondminus</code>	⌈	<code>\amalg</code>
◇	<code>\diamondvert</code>	◁	<code>\lhd</code>
		▷	<code>\rhd</code>
		⊲	<code>\unlhd</code>
		⊳	<code>\unrhd</code>
		/	<code>\divslash</code>
		\	<code>\setminus</code>










































































4.3 Relations

=	<code>=, \equal, \Relbar</code>	≐	<code>\doteq</code>
≡	<code>\equiv</code>	≐	<code>\eqdot</code>
~	<code>\sim</code>	≐	<code>\Doteq</code>
↖	<code>\backsimeq</code>	≐	<code>\fallingdotseq</code>
≈	<code>\approx</code>	≐	<code>\risingdotseq</code>
≈	<code>\triplesim, \approxident</code>	≐	<code>\coloneq, \coloneqq</code>
≈	<code>\simeq</code>	≐	<code>\eqcolon, \eqqcolon</code>
≈	<code>\backsimeq</code>	☺	<code>\smile, \smallsmile</code>
≈	<code>\eqsim</code>	☹	<code>\frown, \smallfrown</code>
≡	<code>\cong</code>	☺	<code>\smilefrown, \asymp</code>
≡	<code>\backcong</code>	◌	<code>\frownsmile, \closure</code>
≡	<code>\dotcong</code>	≡	<code>\smileeq</code>
≈	<code>\approxeq</code>	≡	<code>\frowneq, \arceq</code>
≈	<code>\bumpeq</code>	≡	<code>\eqcirc</code>
≡	<code>\bumpeq</code>	≡	<code>\circeq</code>
≈	<code>\Bumpeq</code>	≡	<code>\wedgedeq, \hateq</code>

ε	<code>\veeeq</code>	\sqsubseteq	<code>\sqsubset</code>
\doteq	<code>\stareq</code>	\sqsupseteq	<code>\sqsupseteq</code>
\trianglelefteq	<code>\trianglelefteq, \trianglelefteq</code>	\sqsubset	<code>\Sqsubset</code>
\in	<code>\in</code>	\sqsupset	<code>\Sqsupset</code>
\owns	<code>\owns, \ni</code>	\subset	<code>\subset</code>
$<$	<code><, \less</code>	\supset	<code>\supset</code>
$>$	<code>>, \gtr</code>	\subseteq	<code>\subseteq</code>
\leq	<code>\leq, \le</code>	\supseteq	<code>\supseteq</code>
\geq	<code>\geq, \ge</code>	\subseteqq	<code>\subseteqq</code>
\leqslant	<code>\leqslant</code>	\supseteqq	<code>\supseteqq</code>
\geqslant	<code>\geqslant</code>	\Subset	<code>\Subset</code>
\leqq	<code>\leqq</code>	\Supset	<code>\Supset</code>
\geqq	<code>\geqq</code>	\prec	<code>\prec</code>
\lesssim	<code>\lesssim</code>	\succ	<code>\succ</code>
\gtrsim	<code>\gtrsim</code>	\preceq	<code>\preceq</code>
\lessapprox	<code>\lessapprox</code>	\succeq	<code>\succeq</code>
\gtrapprox	<code>\gtrapprox</code>	\preccurlyeq	<code>\preccurlyeq</code>
\lessgtr	<code>\lessgtr</code>	\succcurlyeq	<code>\succcurlyeq</code>
\gtrless	<code>\gtrless</code>	\preceqq	<code>\preceqq</code>
\lesseqgtr	<code>\lesseqgtr</code>	\succeqq	<code>\succeqq</code>
\gtreqless	<code>\gtreqless</code>	\precsim	<code>\precsim</code>
\lesseqqgtr	<code>\lesseqqgtr</code>	\succsim	<code>\succsim</code>
\gtreqqlless	<code>\gtreqqlless</code>	\precapprox	<code>\precapprox</code>
\lesseqslantgtr, \lesq	<code>\lesseqslantgtr, \lesq</code>	\succapprox	<code>\succapprox</code>
\gtreqslantless, \gesl	<code>\gtreqslantless, \gesl</code>	\lessdot	<code>\lessdot</code>
\ll	<code>\ll</code>	\gtrdot	<code>\gtrdot</code>
\gg	<code>\gg</code>	\leqdot	<code>\leqdot</code>
\lll, \lllless	<code>\lll, \lllless</code>	\geqdot	<code>\geqdot</code>
\ggg, \gggtr	<code>\ggg, \gggtr</code>	\leqslantdot, \lesdot	<code>\leqslantdot, \lesdot</code>
$\lessclosed, \vartriangleleft$	<code>\lessclosed, \vartriangleleft</code>	\geqslantdot, \gesdot	<code>\geqslantdot, \gesdot</code>
$\gtrclosed, \vartriangleright$	<code>\gtrclosed, \vartriangleright</code>	\eqslantless	<code>\eqslantless</code>
$\leqclosed, \trianglelefteq$	<code>\leqclosed, \trianglelefteq</code>	\eqslantgtr	<code>\eqslantgtr</code>
$\geqclosed, \trianglerighteq$	<code>\geqclosed, \trianglerighteq</code>	\curlyeqprec	<code>\curlyeqprec</code>
\lesscc, \ltcc	<code>\lesscc, \ltcc</code>	\curlyeqsucc	<code>\curlyeqsucc</code>
\gtrcc, \gtcc	<code>\gtrcc, \gtcc</code>	\thicksim	<code>\thicksim</code>
\leqslcc, \lescc	<code>\leqslcc, \lescc</code>	\thickapprox	<code>\thickapprox</code>
\geqslcc, \gescc	<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>














































































\nwarrow	<code>\nwarrow</code>	\Leftrightarrow	<code>\Leftmapsto, \Mapsfrom</code>
\swarrow	<code>\swarrow</code>	\Downarrow	<code>\Downmapsto, \Mapsdown</code>
\searrow	<code>\searrow</code>	\hookrightarrow	<code>\hookrightarrow</code>
\Rightarrow	<code>\Rrightarrow</code>	\upharpoonright	<code>\hookuparrow</code>
\Uparrow	<code>\Uparrow</code>	\hookleftarrow	<code>\varhookleftarrow</code>
\Leftarrow	<code>\Leftarrow</code>	\downarrow	<code>\varhookdownarrow</code>
\Downarrow	<code>\Downarrow</code>	\nearrow	<code>\varhooknearrow</code>
\nearrow	<code>\Nearrow</code>	\hookrightarrow	<code>\hookrightarrow, \hknwarrow</code>
\nwarrow	<code>\Nwarrow</code>	\swarrow	<code>\varhookswarrow</code>
\swarrow	<code>\Swarrow</code>	\searrow	<code>\hooksearrow, \hksearrow</code>
\searrow	<code>\Searrow</code>	\rightarrow	<code>\varhookrightarrow</code>
\leftrightarrow	<code>\leftrightharpoonup</code>	\upharpoonright	<code>\varhookuparrow</code>
\updownarrow	<code>\updownarrow</code>	\hookleftarrow	<code>\hookleftarrow</code>
\nearrow	<code>\neswarrow</code>	\downarrow	<code>\hookdownarrow</code>
\nwarrow	<code>\nwsearrow</code>	\nearrow	<code>\hooknearrow, \hknearrow</code>
\Leftrightarrow	<code>\Leftrightharpoonup</code>	\nwarrow	<code>\varhooknwarrow</code>
\Updownarrow	<code>\Updownarrow</code>	\nearrow	<code>\hookswarrow, \hkswarrow</code>
\nearrow	<code>\Neswarrow</code>	\searrow	<code>\varhooksearrow</code>
\nwarrow	<code>\Nwsearrow</code>	\rightarrow	<code>\rightharpoonup</code>
\rightarrow	<code>\twoheadrightarrow</code>	\lhd	<code>\upharpoonleft</code>
\uparrow	<code>\twoheaduparrow</code>	\leftarrow	<code>\leftharpoonupdown</code>
\leftarrow	<code>\twoheadleftarrow</code>	\lhd	<code>\downharpoonright</code>
\downarrow	<code>\twoheaddownarrow</code>	\nearrow	<code>\neharpoonnw</code>
\nearrow	<code>\twoheadnearrow</code>	\nwarrow	<code>\nwharpoonsw</code>
\nwarrow	<code>\twoheadnwarrow</code>	\swarrow	<code>\swharpoonse</code>
\swarrow	<code>\twoheadswarrow</code>	\searrow	<code>\seharpoonse</code>
\searrow	<code>\twoheadsearrow</code>	\rightarrow	<code>\rightharpoonupdown</code>
\rightarrow	<code>\rightarrowtail</code>	\upharpoonright	<code>\upharpoonright, \restriction</code>
\uparrow	<code>\uparrowtail</code>	\leftarrow	<code>\leftharpoonup</code>
\leftarrow	<code>\leftarrowtail</code>	\downarrow	<code>\downharpoonleft</code>
\downarrow	<code>\downarrowtail</code>	\nearrow	<code>\neharpoonse</code>
\nearrow	<code>\nearrowtail</code>	\nwarrow	<code>\nwharpoonse</code>
\nwarrow	<code>\nwarrowtail</code>	\swarrow	<code>\swharpoonnw</code>
\swarrow	<code>\swarrowtail</code>	\searrow	<code>\seharpoonsw</code>
\searrow	<code>\searrowtail</code>	\leftrightarrow	<code>\leftrightharpoonupdown</code>
\mapsto	<code>\rightmapsto, \mapsto</code>	\updownarrow	<code>\updownharpoonleftright</code>
\Uparrow	<code>\upmapsto, \mapsup</code>	\nearrow	<code>\neswharpoonnwse</code>
\Leftarrow	<code>\leftmapsto, \mapsfrom</code>	\nwarrow	<code>\nwseharpoonnesw</code>
\Downarrow	<code>\downmapsto, \mapsdown</code>	\rightarrow	<code>\leftrightharpoonupdown</code>
\Rightarrow	<code>\Rightmapsto, \Mapsto</code>	\updownarrow	<code>\updownharpoonrightleft</code>
\Uparrow	<code>\Upmapsto, \Mapsup</code>	\nearrow	<code>\neswharpoonsenw</code>










\nwarrow	<code>\nwseharpoonswne</code>	\nrightarrow	<code>\nwnwarrows</code>
\rightleftharpoons	<code>\rightleftharpoons</code>	\swarrow	<code>\swswarrows</code>
\updownarrow	<code>\updownharpoons,</code> <code>\updownharpoonsleftright</code>	\searrow	<code>\sesearrows</code>
\nearrow	<code>\neswharpoons</code>	\rightleftarrows	<code>\rightleftarrows</code>
\searrow	<code>\senwharpoons</code>	\updownarrow	<code>\updownarrows</code>
\leftrightharpoons	<code>\leftrightharpoons</code>	\nearrow	<code>\neswarrows</code>
\downupharpoons	<code>\downupharpoons,</code> <code>\downupharpoonsleftright</code>	\nwarrow	<code>\nwsearrows</code>
\swarrow	<code>\swneharpoons</code>	\leftrightharpoons	<code>\leftrightharpoons</code>
\nwarrow	<code>\nwseharpoons</code>	\updownarrow	<code>\downuparrows</code>
\rightarrow	<code>\rightbkarrow,\dashrightarrow,</code> <code>\dasharrow</code>	\swarrow	<code>\swnearrows</code>
\uparrow	<code>\upbkarrow</code>	\searrow	<code>\senwarrows</code>
\leftarrow	<code>\leftbkarrow,\dashleftarrow</code>	\rightsquigarrow	<code>\rightarrowwavearrow,\leadsto,</code> <code>\rightsquigarrow,</code> <code>\rightcurvedarrow</code>
\downarrow	<code>\downbkarrow</code>	\uparrow	<code>\varupwavearrow</code>
\nearrow	<code>\nebkarrow</code>	\leftarrow	<code>\varleftwavearrow</code>
\nwarrow	<code>\nwbkarrow</code>	\downarrow	<code>\downwavearrow</code>
\swarrow	<code>\swbkarrow</code>	\rightarrow	<code>\varrightwavearrow</code>
\searrow	<code>\sebkarrow</code>	\uparrow	<code>\upwavearrow</code>
\rightarrow	<code>\rightspoon,\multimap</code>	\leftarrow	<code>\leftwavearrow,</code> <code>\leftsquigarrow,</code> <code>\leftcurvedarrow</code>
\uparrow	<code>\upspoon,\circmid</code>	\downarrow	<code>\vardownwavearrow</code>
\leftarrow	<code>\leftspoon,\multimapinv</code>	\rightleftarrows	<code>\leftrightwavearrow,</code> <code>\leftrightsquigarrow</code>
\downarrow	<code>\downspoon,\midcir</code>	\updownarrow	<code>\updownwavearrow</code>
\rightarrow	<code>\rightblackspoon</code>	\rightleftarrows	<code>\varleftrightwavearrow</code>
\uparrow	<code>\upblackspoon</code>	\downarrow	<code>\varupdownwavearrow</code>
\leftarrow	<code>\leftblackspoon</code>	\rightarrow	<code>\cwoverarcarrow,</code> <code>\curvearrowright</code>
\downarrow	<code>\downblackspoon</code>	\leftarrow	<code>\cwleftarcarrow</code>
\rightarrow	<code>\leftrightspoon,\dualmap</code>	\sim	<code>\cwunderarcarrow</code>
\rightarrow	<code>\leftrightblackspoon</code>	\downarrow	<code>\cwrightarcarrow</code>
\rightarrow	<code>\blackwhitespoon,\imageof</code>	\nearrow	<code>\cwnwarcarrow,</code> <code>\rightupcurvedarrow</code>
\rightarrow	<code>\whiteblackspoon,\origof</code>	\nwarrow	<code>\cswwarcarrow,</code> <code>\upleftcurvedarrow</code>
\rightarrow	<code>\rightpitchfork</code>	\swarrow	<code>\cwsearcarrow,</code> <code>\leftdowncurvedarrow</code>
\rightarrow	<code>\uppitchfork,\pitchfork</code>	\searrow	<code>\cwnearcarrow,</code> <code>\downrightcurvedarrow</code>
\rightarrow	<code>\leftpitchfork</code>		
\rightarrow	<code>\downpitchfork</code>		
\rightarrow	<code>\righttrightarrows</code>		
\rightarrow	<code>\upuparrows</code>		
\rightarrow	<code>\leftleftarrows</code>		
\rightarrow	<code>\downdownarrows</code>		
\rightarrow	<code>\neartharrows</code>		






























































	<code>\acwunderarccarrow</code>		<code>\longrightarrow</code>
	<code>\acwrightarccarrow</code>		<code>\longleftarrow</code>
	<code>\acwoverarccarrow,</code> <code>\curvearrowleft</code>		<code>\Longrightarrow</code>
	<code>\acwleftarccarrow</code>		<code>\Longleftarrow</code>
	<code>\acwsearccarrow,</code> <code>\uprightcurvecarrow</code>		<code>\longleftrightharrow</code>
	<code>\acwnearccarrow,</code> <code>\leftupcurvedarrow</code>		<code>\Longleftrightharrow</code>
	<code>\acwnwarccarrow,</code> <code>\downleftcurvedarrow</code>		<code>\longmapsto</code>
	<code>\acwnwarccarrow,</code> <code>\leftupcurvedarrow</code>		<code>\longmapsfrom</code>
	<code>\acwnwarccarrow,</code> <code>\downleftcurvedarrow</code>		<code>\Longmapsfrom</code>
	<code>\acwnwarccarrow,</code> <code>\downleftcurvedarrow</code>		<code>\longrightwavyarrow,</code>
	<code>\acwnwarccarrow,</code> <code>\downleftcurvedarrow</code>		<code>\longleadsto,</code>
	<code>\acwnwarccarrow,</code> <code>\downleftcurvedarrow</code>		<code>\longrightsquigarrow</code>
	<code>\bdoverarccarrow</code>		<code>\longleftwavyarrow,</code>
	<code>\bdleftarccarrow</code>		<code>\longleftsquigarrow</code>
	<code>\bdunderarccarrow</code>		<code>\longleftfootline,\vlongdash</code>
	<code>\bdrightarccarrow</code>		<code>\longrightfootline,\longdashv</code>
	<code>\bdnwarccarrow</code>		<code>\Lsh</code>
	<code>\bdswarccarrow</code>		<code>\Rsh</code>
	<code>\bdsearccarrow</code>		<code>\Ldsh</code>
	<code>\bdnearccarrow</code>		<code>\Rdsh</code>
	<code>\leftfootline</code>		<code>\looparrowright</code>
	<code>\rightfootline</code>		<code>\looparrowleft</code>
	<code>\acwcirculararrowup</code>		<code>\rightvdash,\vdash</code>
	<code>\acwcirculararrowleft,</code> <code>\circlearrowleft,</code> <code>\acwopencirculararrow</code>		<code>\upvdash,\perp</code>
	<code>\acwcirculararrowdown,</code> <code>\acwgapcirculararrow</code>		<code>\leftvdash,\dashv</code>
	<code>\acwcirculararrowright</code>		<code>\downvdash</code>
	<code>\acwcirculararrowdown,</code> <code>\cwgapcirculararrow</code>		<code>\rightassert,\assert,</code> <code>\shortrighttack</code>
	<code>\acwcirculararrowright,</code> <code>\circlearrowright,</code> <code>\cwopencirculararrow</code>		<code>\upassert,\shortuptack</code>
	<code>\acwcirculararrowup</code>		<code>\leftassert,\shortlefttack</code>
	<code>\acwcirculararrowleft</code>		<code>\downassert,\shortdowntack</code>
	<code>\Rightarrow</code>		<code>\righttvDash,\tvDash</code>
	<code>\Uparrow</code>		<code>\upvDash,\Vbar</code>
	<code>\Lleftarrow</code>		<code>\leftvDash,\Dashv</code>
	<code>\Ddownarrow</code>		<code>\downvDash,\barV</code>
			<code>\rightmodels,\models</code>
			<code>\upmodels</code>
			<code>\leftmodels</code>
			<code>\downmodels</code>
			<code>\rightVdash,\Vdash</code>

\perp	<code>\upVdash</code>	\neq	<code>\neqcirc</code>
\dashv	<code>\leftVdash, \dashV</code>	\neq	<code>\ncirceq</code>
\top	<code>\downVdash</code>	\neq	<code>\nwedgeq, \nhateq</code>
\Vdash	<code>\rightAssert, \Assert</code>	\neq	<code>\nveeeq</code>
\vDash	<code>\upAssert, \vBar</code>	\neq	<code>\nstareq</code>
\dashv	<code>\leftAssert</code>	\neq	<code>\ntriangleeq</code>
\top	<code>\downAssert, \Barv</code>	\notin	<code>\nin, \notin</code>
\Vdash	<code>\rightVDash, \VDash</code>	\nexists	<code>\nowns, \nni</code>
\perp	<code>\upVDash</code>	\nless	<code>\nless</code>
\dashv	<code>\leftVDash, \DashV</code>	\ngtr	<code>\ngtr</code>
\top	<code>\downVDash</code>	\nleq	<code>\nleq</code>
\Vdash	<code>\Vvdash</code>	\ngeq	<code>\ngeq</code>
\dashv	<code>\dashVv</code>	\nleqslant	<code>\nleqslant</code>
\vDash	<code>\vDdash</code>	\ngeqslant	<code>\ngeqslant</code>
\equiv	<code>\Ddashv</code>	\nleqq	<code>\nleqq</code>
\neq	<code>\nequal, \neq, \ne</code>	\ngeqq	<code>\ngeqq</code>
\neq	<code>\nequiv</code>	\nlesssim	<code>\nlesssim</code>
\sim	<code>\nsim</code>	\ngtrsim	<code>\ngtrsim</code>
\sim	<code>\backsim</code>	\nlessapprox	<code>\nlessapprox</code>
\approx	<code>\napprox</code>	\ngtrapprox	<code>\ngtrapprox</code>
\approx	<code>\ntriplesim, \napproxident</code>	\nlessgtr	<code>\nlessgtr</code>
\approx	<code>\simeq, \sime</code>	\ngtrless	<code>\ngtrless</code>
\approx	<code>\backsim</code>	\nlesseqgtr	<code>\nlesseqgtr</code>
\approx	<code>\neqsim</code>	\ngtreqlless	<code>\ngtreqlless</code>
\approx	<code>\ncong</code>	\nlesseqqgtr	<code>\nlesseqqgtr</code>
\approx	<code>\backcong</code>	\ngtreqqless	<code>\ngtreqqless</code>
\approx	<code>\approxeq</code>	\nlesseqslantgtr, \nlesg	<code>\nlesseqslantgtr, \nlesg</code>
\approx	<code>\nbump</code>	$\ngtreqlslantless, \ngesl$	<code>\ngtreqlslantless, \ngesl</code>
\approx	<code>\nbump</code>	\nll	<code>\nll</code>
\approx	<code>\nBump</code>	\ngg	<code>\ngg</code>
\approx	<code>\ndoteq</code>	\nlll	<code>\nlll</code>
\approx	<code>\neqdot</code>	\nggg	<code>\nggg</code>
\approx	<code>\nDoteq</code>	$\nlessclosed, \ntriangleleft$	<code>\nlessclosed, \ntriangleleft</code>
\approx	<code>\nfallingdotseq</code>	$\ngtrclosed, \ntriangleright$	<code>\ngtrclosed, \ntriangleright</code>
\approx	<code>\nrisingdotseq</code>	$\nleqclosed, \ntrianglelefteq$	<code>\nleqclosed, \ntrianglelefteq</code>
\approx	<code>\nsmile</code>	$\ngeqclosed, \ntrianglerighteq$	<code>\ngeqclosed, \ntrianglerighteq</code>
\approx	<code>\nfrown</code>	\nlesscc, \nltcc	<code>\nlesscc, \nltcc</code>
\approx	<code>\nsmilefrown, \nasymp</code>	\ngtrcc, \ngtcc	<code>\ngtrcc, \ngtcc</code>
\approx	<code>\nfrownsmile, \nclosure</code>	\nleqslcc, \nlescc	<code>\nleqslcc, \nlescc</code>
\approx	<code>\nsmileeq</code>	\ngeqslcc, \ngescc	<code>\ngeqslcc, \ngescc</code>
\approx	<code>\nfrowneq, \narceq</code>	\nsubset	<code>\nsubset</code>

\nsqsupset	\lneqq, \lvertneqq
\nsqsubseteq	\gneqq, \gvertneqq
\nsqsupseteq	\lnsim
\nsqsubseteqq	\gnsim
\nsqsupseteqq	\lnapprox
\nSqsubset	\gnapprox
\nSqsupset	\sqsubsetneq
\nsubset	\sqsupsetneq
\nsupset	\sqsubsetneqq
\nsubseteq	\sqsupsetneqq
\nsupseteq	$\subsetneq, \varsubsetneq$
\nsubseteqq	$\supsetneq, \varsupsetneq$
\nsupseteqq	$\subsetneqq, \varsubsetneqq$
\nSubset	$\supsetneqq, \varsupsetneqq$
\nSupset	\precneq
\nprec	\succneq
\nsucc	\precneqq
\npreceq	\succneqq
\nsucceq	\precnsim
\npreccurlyeq	\succnsim
\nsucccurlyeq	\precnapprox
\npreceqq	\succnapprox
\nsucceqq	\rightarrow, \into
\nprecsim	\nuparrow
\nsuccsim	\nleftarrow, \ngets
\nprecapprox	\ndownarrow
\nsuccapprox	\nrightarrow
\nlessdot	\nnwarrow
\ngtrdot	\nswarrow
\nleqdot	\nsearrow
\ngeqdot	\rightarrow
\nleqslantdot, \nlesdot	\nUparrow
\ngeqslantdot, \ngesdot	\nLeftarrow
\neqslantless	\nDownarrow
\neqslantgtr	\nNearrow
\ncurlyeqprec	\nNwarrow
\ncurlyeqsucc	\nSwarrow
\simneqq	\nSearrow
\backsimneqq	\leftrightharpoonup
\lneq	\nupdownarrow
\gneq	\nneswarrow

	<code>\nnwsearrow</code>		<code>\nhooknearrow, \nhknearrow</code>
	<code>\nLeftrightarrow</code>		<code>\nvarhooknearrow</code>
	<code>\nUpdownarrow</code>		<code>\nhookswarrow, \nhkswarrow</code>
	<code>\nNeswarrow</code>		<code>\nvarhooksearrow</code>
	<code>\nNwsearrow</code>		<code>\nrightharpoonup</code>
	<code>\ntwoheadrightarrow</code>		<code>\nupharpoonleft</code>
	<code>\ntwoheaduparrow</code>		<code>\nleftharpoondown</code>
	<code>\ntwoheadleftarrow</code>		<code>\ndownharpoonright</code>
	<code>\ntwoheaddownarrow</code>		<code>\nneharpoonnw</code>
	<code>\ntwoheadnearrow</code>		<code>\nnwharpoonsw</code>
	<code>\ntwoheadnwarrow</code>		<code>\nswharpoonse</code>
	<code>\ntwoheadswarrow</code>		<code>\nseharpoonne</code>
	<code>\ntwoheadsearrow</code>		<code>\nrightharpoondown</code>
	<code>\nrightharpoonright</code>		<code>\nupharpoonright,</code>
	<code>\nuparrowtail</code>		<code>\nrestriction</code>
	<code>\nleftarrowtail</code>		<code>\nleftharpoonup</code>
	<code>\ndownarrowtail</code>		<code>\ndownharpoonleft</code>
	<code>\nnearrowtail</code>		<code>\nneharpoonse</code>
	<code>\nnwarrowtail</code>		<code>\nnwharpoonne</code>
	<code>\nswarrowtail</code>		<code>\nswharpoonnw</code>
	<code>\nsearrowtail</code>		<code>\nseharpoonsw</code>
	<code>\nrightrightarrow, \nmapsto</code>		<code>\nleftrightharpoonupdown</code>
	<code>\nupmapsto, \nmapsup</code>		<code>\nupdownharpoonleftright</code>
	<code>\nleftmapsto, \nmapsfrom</code>		<code>\nneswharpoonnwse</code>
	<code>\ndownmapsto, \nmapsdown</code>		<code>\nnwseharpoonnesw</code>
	<code>\nRightmapsto, \nMapsto</code>		<code>\nleftrightharpoondownup</code>
	<code>\nUpmapsto, \nMapsup</code>		<code>\nupdownharpoonrightleft</code>
	<code>\nLeftmapsto, \nMapsfrom</code>		<code>\nneswharpoonsenw</code>
	<code>\nDownmapsto, \nMapsdown</code>		<code>\nnwseharpoonswne</code>
	<code>\nhookrightarrow</code>		<code>\nrightrightarpoons</code>
	<code>\nhookuparrow</code>		<code>\nupdownharpoons,</code>
	<code>\nvarhookleftarrow</code>		<code>\nupdownharpoonsleftright</code>
	<code>\nvarhookdownarrow</code>		<code>\nneswharpoons</code>
	<code>\nvarhooknearrow</code>		<code>\nsenwharpoons</code>
	<code>\nhooknearrow, \nhknarrow</code>		<code>\nleftrightharpoons</code>
	<code>\nvarhookswarrow</code>		<code>\ndownupharpoons,</code>
	<code>\nhooksearrow, \nhksearrow</code>		<code>\ndownupharpoonsleftright</code>
	<code>\nvarhookrightarrow</code>		<code>\nswneharpoons</code>
	<code>\nvarhookuparrow</code>		<code>\nnwseharpoons</code>
	<code>\nhookleftarrow</code>		<code>\nrightrightarrow, \ndasharrow,</code>
	<code>\nhookdownarrow</code>		<code>\ndashrightarrow</code>

	<code>\nupbkarrow</code>		<code>\nrightwavearrow, \nleadsto,</code>
	<code>\nleftbkarrow, \ndashleftarrow</code>		<code>\nrightrightarrow,</code>
	<code>\ndownbkarrow</code>		<code>\nrightrightcurvedarrow</code>
	<code>\nnebkarrow</code>		<code>\nvarupwavearrow</code>
	<code>\nnwbkarrow</code>		<code>\nvarleftwavearrow</code>
	<code>\nswbkarrow</code>		<code>\ndownwavearrow</code>
	<code>\nsebkarrow</code>		<code>\nvarrightwavearrow</code>
	<code>\nrighthspoon, \nmultimap</code>		<code>\nupwavearrow</code>
	<code>\nupspoon, \ncirmid</code>		<code>\nleftwavearrow,</code>
	<code>\nleftspoon, \nmultimapinv</code>		<code>\nleftsquigarrow,</code>
	<code>\ndownspoon, \nmidcir</code>		<code>\nleftcurvedarrow</code>
	<code>\nrighthblackspoon</code>		<code>\nvardownwavearrow</code>
	<code>\nupblackspoon</code>		<code>\nleftrightrightwavearrow,</code>
	<code>\nleftblackspoon</code>		<code>\nleftrightsquigarrow</code>
	<code>\ndownblackspoon</code>		<code>\nupdownwavearrow</code>
	<code>\nleftrighthspoon, \ndualmap</code>		<code>\nvarleftrightrightwavearrow</code>
	<code>\nleftrighthblackspoon</code>		<code>\nvarupdownwavearrow</code>
	<code>\nblackwhitespoon, \nimageof</code>		<code>\ncwoverarccarrow,</code>
	<code>\nwhiteblackspoon, \norigof</code>		<code>\ncurvearrowright</code>
	<code>\nrighthpitchfork</code>		<code>\ncwleftarccarrow</code>
	<code>\nuppitchfork, \npitchfork</code>		<code>\ncwunderarccarrow</code>
	<code>\nleftpitchfork</code>		<code>\ncwrightarccarrow</code>
	<code>\ndownpitchfork</code>		<code>\ncwnwarccarrow,</code>
	<code>\nrightrightarrows</code>		<code>\nrightrightcurvedarrow</code>
	<code>\nupuparrows</code>		<code>\ncwswarccarrow,</code>
	<code>\nleftleftarrows</code>		<code>\nupleftcurvedarrow</code>
	<code>\ndowndownarrows</code>		<code>\ncwsearccarrow,</code>
	<code>\nnenearrows</code>		<code>\nleftdowncurvedarrow</code>
	<code>\nnwnwarrows</code>		<code>\ncwnearccarrow,</code>
	<code>\nswswarrows</code>		<code>\ndownrightcurvedarrow</code>
	<code>\nsesearrows</code>		<code>\nacwunderarccarrow</code>
	<code>\nrightrightarrows</code>		<code>\nacwrightarccarrow</code>
	<code>\nupdownarrows</code>		<code>\nacwoverarccarrow,</code>
	<code>\nneswarrows</code>		<code>\ncurvearrowleft</code>
	<code>\nnwsearrows</code>		<code>\nacwleftarccarrow</code>
	<code>\nleftrightrightarrows</code>		<code>\nacwsearccarrow,</code>
	<code>\ndownuparrows</code>		<code>\nuprightcurvearrow</code>
	<code>\nswnearrows</code>		<code>\nacwnearccarrow,</code>
	<code>\nsenwarrows</code>		<code>\nleftupcurvedarrow</code>
			<code>\nacwnwarccarrow,</code>
			<code>\ndownleftcurvedarrow</code>

	<code>\nacswarcarrow,</code> <code>\rightrightcurvedarrow</code>		<code>\nlongrightwavearrow,</code> <code>\nlongleadsto,</code> <code>\nlongrightsquigarrow</code>
	<code>\nbdoverarcarrow</code>		<code>\nlongleftwavearrow,</code> <code>\nlongleftsquigarrow</code>
	<code>\nbdleftarcarrow</code>		<code>\nlongleftfootline,</code> <code>\nvlongdash</code>
	<code>\nbdunderarcarrow</code>		<code>\nlongrightfootline,</code> <code>\nlongdashv</code>
	<code>\nbdrightarcarrow</code>		<code>\nrightvdash,\nvdash</code>
	<code>\nbdnwarcarrow</code>		<code>\nupvdash,\nperp</code>
	<code>\nbdswarcarrow</code>		<code>\nleftvdash,\ndashv</code>
	<code>\nbdsearcarrow</code>		<code>\ndownvdash</code>
	<code>\nbdnearcarrow</code>		<code>\nrightassert,\nassert,</code> <code>\nshortrighttack</code>
	<code>\nleftfootline</code>		<code>\nupassert,\nshortuptack</code>
	<code>\nrightfootline</code>		<code>\nleftassert,\nshortlefttack</code>
	<code>\nacwcirculararrowup</code>		<code>\ndownassert,\nshortdowntack</code>
	<code>\nacwcirculararrowleft,</code> <code>\ncirculararrowleft,</code> <code>\nacwopencirculararrow</code>		<code>\nrightvDash,\nvDash</code>
	<code>\nacwcirculararrowdown,</code> <code>\nacwgapcirculararrow</code>		<code>\nupvDash,\nVbar</code>
	<code>\nacwcirculararrowright</code>		<code>\nleftvDash,\nDashv</code>
	<code>\ncwcirculararrowdown,</code> <code>\ncwgapcirculararrow</code>		<code>\ndownvDash,\nbarV</code>
	<code>\ncwcirculararrowright,</code> <code>\ncirculararrowright,</code> <code>\ncwopencirculararrow</code>		<code>\nrightmodels,\nmodels</code>
	<code>\ncwcirculararrowup</code>		<code>\nupmodels</code>
	<code>\ncwcirculararrowleft</code>		<code>\nleftmodels</code>
	<code>\nRrightarrow</code>		<code>\ndownmodels</code>
	<code>\nUparrow</code>		<code>\nrightVdash,\nVdash</code>
	<code>\nLleftarrow</code>		<code>\nupVdash</code>
	<code>\nDdownarrow</code>		<code>\nleftVdash,\ndashV</code>
	<code>\nlongrightarrow</code>		<code>\ndownVdash</code>
	<code>\nlongleftarrow</code>		<code>\nrightAssert,\nAssert</code>
	<code>\nLongrightarrow</code>		<code>\nupAssert,\nVbar</code>
	<code>\nLongleftarrow</code>		<code>\nleftAssert</code>
	<code>\nlongleftrightarrow</code>		<code>\ndownAssert,\nBarv</code>
	<code>\nLongleftrightarrow</code>		<code>\nrightVDash,\nVDash</code>
	<code>\nlongmapsto</code>		<code>\nupVDash</code>
	<code>\nlongmapsfrom</code>		<code>\nleftVDash,\nDashV</code>
	<code>\nLongmapsto</code>		<code>\ndownVDash</code>
	<code>\nLongmapsfrom</code>		<code>\nVvdash</code>
			<code>\ndashVv</code>
			<code>\nvDdash</code>

$\#$	<code>\nDdashv</code>	\times	<code>\crossing</code>
$:$	<code>:\,\mathratio</code>	\between	<code>\between</code>
$::$	<code>\Colon</code>	\shortmid	<code>\shortmid</code>
$-$	<code>\relbar</code>	\mid	<code>\mid,\divides</code>
\dotso	<code>\dotsminusdots</code>	\nshortmid	<code>\nshortmid</code>
\Join	<code>\rJoin</code>	\nmid	<code>\nmid,\ndivides</code>
\Join	<code>\lJoin</code>	\parallel	<code>\shortparallel</code>
\bowtie	<code>\bowtie,\Join</code>	\parallel	<code>\parallel</code>
\propto	<code>\propto,\varpropto</code>	\nparallel	<code>\nshortparallel</code>
\backpropto	<code>\backpropto,\propfrom</code>	\nparallel	<code>\nparallel</code>

4.4 Punctuation symbols

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

4.5 Large operators

$+$	\bigplus	\bigsqcupplus	<code>\bigsqcupplus</code>
\times	\bigtimes	\bigoplus	<code>\bigoplus</code>
\wedge	\bigwedge	\bigotimes	<code>\bigotimes</code>
\vee	\bigvee	\bigodot	<code>\bigodot</code>
\wedge	\bigwedgedot	\bigoplus	<code>\bigoplus</code>
\vee	\bigveedot	\prod	<code>\prod</code>
\wedge	$\bigdoublewedge,$	\coprod	<code>\coprod</code>
	\conjquant	\sum	<code>\sum</code>
\vee	\bigdoublevee,\disjquant	\osum	<code>\osum,\modtwosum</code>
\wedge	\bigcurlywedge	\int	<code>\int</code>
\vee	\bigcurlyvee	\iint	<code>\iint</code>
\cap	\bigcap	\iiint	<code>\iiint</code>
\cup	\bigcup	\iiiiint	<code>\iiiiint</code>
\cap	\bigcapdot	$\int\dots\int$	<code>\idotsint,\dotsint</code>
\cup	\bigcupdot	\int	<code>\int</code>
\cap	\bigcapplus	\int	<code>\int</code>
\cup	\bigcupplus,\bigcupplus	\int	<code>\int</code>
\cap	\bigsqcap	\int	<code>\int</code>
\cup	\bigsqcup	\int	<code>\int</code>
\cap	\bigsqcapdot	\int	<code>\int</code>
\cup	\bigsqcupdot	\int	<code>\int</code>
\cap	\bigsqcapplus	\int	<code>\int</code>

\int	\int	<code>\fint</code>			
\oint	\oint	<code>\oint</code>	\oint	\oint	<code>\varointclockwise</code>
\oiint	\oiint	<code>\oiint</code>	\oint	\oint	<code>\rcircleleftint,</code> <code>\varointctrcclockwise</code>
\oiint	\oiint	<code>\oiint</code>	\oint	\oint	<code>\lcircleleftint,</code> <code>\ointclockwise</code>
\oiint	\oiint	<code>\oiint</code>	\int	\int	<code>\sumint</code>
\oint	\oint	<code>\rcirclerightint,</code> <code>\ointctrcclockwise</code>	\prod	\prod	<code>\smallprod</code>
\oint	\oint	<code>\lcirclerightint,</code>	\coprod	\coprod	<code>\smallcoprod</code>
			\int	\int	<code>\smallint</code>
			$\sqrt{}$	$\sqrt{}$	<code>\surd</code>

4.6 Delimiters and accents

$((((($	$((((($	<code>(, \lparen</code>	\ulcorner	\ulcorner	<code>\ulcorner</code>
$)))))$	$)))))$	<code>), \rparen</code>	\llcorner	\llcorner	<code>\llcorner</code>
$[[[[[$	$[[[[[$	<code>[, \lbrack</code>	\lceil	\lceil	<code>\lceil</code>
$]]]]]$	$]]]]]$	<code>], \rbrack</code>	\lfloor	\lfloor	<code>\lfloor</code>
$\lfloor\lfloor\lfloor\lfloor$	$\lfloor\lfloor\lfloor\lfloor$	<code>\lfloor</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
$\rfloor\rfloor\rfloor\rfloor$	$\rfloor\rfloor\rfloor\rfloor$	<code>\rfloor</code>	$\llcorner\llcorner\llcorner\llcorner$	$\llcorner\llcorner\llcorner\llcorner$	<code>\llcorner</code>
$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
$\rceil\rceil\rceil\rceil$	$\rceil\rceil\rceil\rceil$	<code>\rceil</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
\ulcorner	\ulcorner	<code>\ulcorner</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
\urcorner	\urcorner	<code>\urcorner</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
\llcorner	\llcorner	<code>\llcorner</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
\lrcorner	\lrcorner	<code>\lrcorner</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
\ulcorner	\ulcorner	<code>\ulcorner</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>
\llcorner	\llcorner	<code>\llcorner</code>	$\lceil\lceil\lceil\lceil$	$\lceil\lceil\lceil\lceil$	<code>\lceil</code>

$\left \right $	<code> , \vert</code>	$\left[\left[\left[\left[\right. \right. \right. \right.$	<code>\lgroup</code>
$\left \right \right $	<code>\lvert</code>	$\left. \right. \right. \right)$	<code>\rgroup</code>
$\left \right \right \right $	<code>\rvert</code>	$\left. \left. \left. \left. \right. \right. \right)$	<code>\lmoustache</code>
$\left \right \right \right \right $	<code>\Vert, \lVert</code>	$\left. \left. \left. \left. \right. \right. \right $	<code>\rmoustache</code>
$\left \right \right \right \right \right $	<code>\lVert</code>	$\left \right \left \right \left \right $	<code>\bracevert</code>
$\left \right \right \right \right \right \right $	<code>\rVert</code>	$\uparrow \uparrow \uparrow \uparrow$	<code>\uparrowarrow</code>
$\left \right \right \right \right \right \right \right $	<code>\Vvert</code>	$\downarrow \downarrow \downarrow \downarrow$	<code>\downarrowarrow</code>
$\left \right \right \right \right \right \right \right \right $	<code>\lVvert</code>	$\updownarrow \updownarrow \updownarrow \updownarrow$	<code>\updownarrowarrow</code>
$\left \right \right \right \right \right \right \right \right \right $	<code>\rVvert</code>	$\Uparrow \Uparrow \Uparrow \Uparrow$	<code>\Uparrow</code>
$\rightarrow \rightarrow \rightarrow \rightarrow$	<code>\arrowvert</code>	$\Downarrow \Downarrow \Downarrow \Downarrow$	<code>\Downarrow</code>
$\Uparrow \Uparrow \Uparrow \Uparrow$	<code>\Arrowvert</code>	$\Updownarrow \Updownarrow \Updownarrow \Updownarrow$	<code>\Updownarrow</code>
\overbrace{xxx}	<code>\overbrace</code>	\overline{xxx}	<code>\overline{xxx}</code>
\underbrace{xxx}	<code>\underbrace</code>	\overleftarrow{xxx}	<code>\overleftarrow{xxx}</code>
\overgroup{xxx}	<code>\overgroup</code>	\overrightarrow{xxx}	<code>\overrightarrow{xxx}</code>
\undergroup{xxx}	<code>\undergroup</code>	\underline{xxx}	<code>\underline{xxx}</code>
\sqrt{b}	<code>\sqrt{b}</code>	\vec{b}	<code>\vec{b}</code>
\widehat{xxx}	<code>\widehat{xxx}</code>	\bar{b}	<code>\middlebar</code>
\widetilde{xxx}	<code>\widetilde{xxx}</code>	$\mathbin{\!/\!}$	<code>\middleslash</code>
\wideparen{xxx}	<code>\wideparen{xxx}</code>	\cancel{b}	<code>\strokethrough</code>

4.7 Faked symbols

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

\dagger	<code>\dagger</code>	\S	<code>\mathsection</code>
\ddagger	<code>\ddagger</code>	$\$$	<code>\mathdollar</code>
\P	<code>\mathparagraph</code>	\pounds	<code>\mathsterling</code>

¥	\yen	ħ	\hslash
ℜ	\Re	®	\circledR
ℑ	\Im	©	\circledS
ħ	\hbar		

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.

\mho	\varkappa	\lhook
\nabla	\Bbbk	\rhook
\eth	\backepsilon	\diagup
\digamma	\mapstochar	\diagdown

5 Implementation

```
1 ⟨*style⟩
2 \RequirePackage{xkeyval}
```

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

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

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

```
4 \newcommand{\fdsy@scale}{1.0}
5 \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.

```
6 \newcommand{\fdsy@mweight}{Book}
7 \newcommand{\fdsy@msweight}{Book}
8 \newcommand{\fdsy@bweight}{Medium}
9 \newcommand{\fdsy@bsweight}{Medium}
10 \define@choicekey*{fdsymbol.sty}{normalweight}[\@tempa\@tempb]{book,regular,auto}{%
11   \ifcase\@tempb\relax
12     \renewcommand{\fdsy@mweight}{Book}
13     \renewcommand{\fdsy@msweight}{Book}
14   \or
15     \renewcommand{\fdsy@mweight}{Regular}
16     \renewcommand{\fdsy@msweight}{Regular}
17   \or
18     \renewcommand{\fdsy@mweight}{Book}
19     \renewcommand{\fdsy@msweight}{Regular}
20   \fi}
```

```

21 }
22 \define@choicekey*{fdsymbol.sty}{boldweight}[\@tempa\@tempb]{medium,bold,auto}{%
23   \ifcase\@tempb\relax
24     \renewcommand\fdsy@bweight{Medium}
25     \renewcommand\fdsy@bsweight{Medium}
26   \or
27     \renewcommand\fdsy@bweight{Bold}
28     \renewcommand\fdsy@bsweight{Bold}
29   \or
30     \renewcommand\fdsy@bweight{Medium}
31     \renewcommand\fdsy@bsweight{Bold}
32   \fi
33 }
34
35 \ExecuteOptionsX{largedelims=false}
36 \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.

```

37 \ifpackageloaded{amsmath}{}{\RequirePackage{amsmath}}
38 \ifpackageloaded{textcomp}{}{\RequirePackage{textcomp}}
39 \ifundefined{mathfrak}{}{\RequirePackage{eufrak}}{}

```

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.

```

40 \iffdsy@largedelims
41   \renewcommand{\Big}{\bBigg@{1.25}}
42   \renewcommand{\bigg}{\bBigg@{1.66}}
43   \renewcommand{\Bigg}{\bBigg@{2.08}}
44 \fi

```

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

```

45 \DeclareRobustCommand{\dagger}{\fdsy@text{\textdagger}}
46 \DeclareRobustCommand{\ddagger}{\fdsy@text{\textdaggerdbl}}
47 \DeclareRobustCommand{\mathparagraph}{\fdsy@text{\textparagraph}}
48 \DeclareRobustCommand{\mathsection}{\fdsy@text{\textsection}}
49 \DeclareRobustCommand{\mathdollar}{\fdsy@text{\textdollar}}
50 \DeclareRobustCommand{\mathsterling}{\fdsy@text{\textsterling}}
51 \DeclareRobustCommand{\yen}{\fdsy@text{\textyen}}
52 \DeclareRobustCommand{\circledR}{\fdsy@text{\textcircled{%
53   \check@mathfonts\fontsize\sf@size\z@\math@fontsfalse\selectfont R}}}
54 \DeclareRobustCommand{\circledS}{\fdsy@text{\textcircled{%
55   \check@mathfonts\fontsize\sf@size\z@\math@fontsfalse\selectfont S}}}
56 \DeclareRobustCommand{\Re}{\mathfrak{R}}
57 \DeclareRobustCommand{\Im}{\mathfrak{I}}
58 \DeclareRobustCommand{\dotcong}{\mathrel{\dot{\cong}}}

```

```

59 \DeclareRobustCommand{\thicksim}{\mathrel{\text{\boldmath$\m@th\sim$}}}
60 \DeclareRobustCommand{\thickapprox}{\mathrel{\text{\boldmath$\m@th\approx$}}}
61 \let\hbar\undefined
62 \let\hslash\undefined
63 \DeclareRobustCommand{\hbar}{\middlebar h}
64 \DeclareRobustCommand{\hslash}{\middleslash h}
65 \DeclareRobustCommand{\centerdot}{\mathbin{\rule{0.15em}{0.15em}}}

Unneeded partial symbols.
66 \let\mapstochar\undefined
67 \let\lhook\undefined
68 \let\rhook\undefined

Shorthands to simplify the definitions below.
69 \newcommand\fdsy@setslot[1]{\@tempcnta #1\relax}
70 \newcommand\fdsy@nextslot{\advance\@tempcnta 1\relax}
71 \newcommand\fdsy@prevslot{\advance\@tempcnta-1\relax}
72
73 \newcommand\fdsy@DeclareSymbol[4]{\DeclareMathSymbol{#2}{#3}{#4}{#1}}
74 \newcommand\fdsy@DeclareSymbol[3]{%
75   \if\relax\noexpand#1\let#1\undefined\fi
76   \expandafter\fdsy@DeclareSymbol\expandafter{\the\@tempcnta}{#1}{#3}{#2}%
77   \fdsy@nextslot
78 }
79 \newcommand\fdsy@DeclareAlias[3]{\fdsy@prevslot\fdsy@DeclareSymbol{#1}{#2}{#3}}
80 \newcommand\fdsy@DeclareOperator[3]{\def#1{\DOTSB#3\slimits@}}
81 \newcommand\fdsy@DeclareIntegral[3]{\def#1{\DOTSI#3\ilimits@}}
82 \newcommand\fdsy@DeclareDelimiter[4]{%
83   \if\relax\noexpand#1\let#1\undefined\fi
84   \DeclareMathDelimiter{#1}{#2}{#3}{#4}{#3}{#4}%
85 }
86 \newcommand\fdsy@DeclareOpen[3]{\fdsy@DeclareDelimiter{#1}{\mathopen}{#2}{#3}}
87 \newcommand\fdsy@DeclareClose[3]{\fdsy@DeclareDelimiter{#1}{\mathclose}{#2}{#3}}

Font definitions.
88 \DeclareFontFamily{U}{FdSymbolA}{}
89 \DeclareFontFamily{U}{FdSymbolB}{}
90 \DeclareFontFamily{U}{FdSymbolC}{}
91 \DeclareFontFamily{U}{FdSymbolD}{}
92 \DeclareFontFamily{U}{FdSymbolE}{}
93 \DeclareFontFamily{U}{FdSymbolF}{}
94
95 \DeclareFontShape{U}{FdSymbolA}{m}{n}{
96   <-7.1> s * [\fdsy@scale] FdSymbolA-\fdsy@msweight
97   <7.1-> s * [\fdsy@scale] FdSymbolA-\fdsy@mweight
98 }{}
99 \DeclareFontShape{U}{FdSymbolA}{b}{n}{

```

```

100    <-7.1> s * [\fdsy@scale] FdSymbolA-\fdsy@bsweight
101    <7.1-> s * [\fdsy@scale] FdSymbolA-\fdsy@bweight
102 }{}
103 \DeclareFontShape{U}{FdSymbolB}{m}{n}{
104    <-7.1> s * [\fdsy@scale] FdSymbolB-\fdsy@msweight
105    <7.1-> s * [\fdsy@scale] FdSymbolB-\fdsy@mweight
106 }{}
107 \DeclareFontShape{U}{FdSymbolB}{b}{n}{
108    <-7.1> s * [\fdsy@scale] FdSymbolB-\fdsy@bsweight
109    <7.1-> s * [\fdsy@scale] FdSymbolB-\fdsy@bweight
110 }{}
111 \DeclareFontShape{U}{FdSymbolC}{m}{n}{
112    <-7.1> s * [\fdsy@scale] FdSymbolC-\fdsy@msweight
113    <7.1-> s * [\fdsy@scale] FdSymbolC-\fdsy@mweight
114 }{}
115 \DeclareFontShape{U}{FdSymbolC}{b}{n}{
116    <-7.1> s * [\fdsy@scale] FdSymbolC-\fdsy@bsweight
117    <7.1-> s * [\fdsy@scale] FdSymbolC-\fdsy@bweight
118 }{}
119 \DeclareFontShape{U}{FdSymbolD}{m}{n}{
120    <-7.1> s * [\fdsy@scale] FdSymbolD-\fdsy@msweight
121    <7.1-> s * [\fdsy@scale] FdSymbolD-\fdsy@mweight
122 }{}
123 \DeclareFontShape{U}{FdSymbolD}{b}{n}{
124    <-7.1> s * [\fdsy@scale] FdSymbolD-\fdsy@bsweight
125    <7.1-> s * [\fdsy@scale] FdSymbolD-\fdsy@bweight
126 }{}
127 \DeclareFontShape{U}{FdSymbolE}{m}{n}{
128    <-7.1> s * [\fdsy@scale] FdSymbolE-\fdsy@msweight
129    <7.1-> s * [\fdsy@scale] FdSymbolE-\fdsy@mweight
130 }{}
131 \DeclareFontShape{U}{FdSymbolE}{b}{n}{
132    <-7.1> s * [\fdsy@scale] FdSymbolE-\fdsy@bsweight
133    <7.1-> s * [\fdsy@scale] FdSymbolE-\fdsy@bweight
134 }{}
135 \DeclareFontShape{U}{FdSymbolF}{m}{n}{
136    <-7.1> s * [\fdsy@scale] FdSymbolF-\fdsy@msweight
137    <7.1-> s * [\fdsy@scale] FdSymbolF-\fdsy@mweight
138 }{}
139 \DeclareFontShape{U}{FdSymbolF}{b}{n}{
140    <-7.1> s * [\fdsy@scale] FdSymbolF-\fdsy@bsweight
141    <7.1-> s * [\fdsy@scale] FdSymbolF-\fdsy@bweight
142 }{}
143
144 \DeclareSymbolFont{symbols}{U}{FdSymbolA}{m}{n}

```

```

145 \DeclareSymbolFont{relations}{U}{FdSymbolB}{m}{n}
146 \DeclareSymbolFont{arrows}{U}{FdSymbolC}{m}{n}
147 \DeclareSymbolFont{narrows}{U}{FdSymbolD}{m}{n}
148 \DeclareSymbolFont{largesymbols}{U}{FdSymbolE}{m}{n}
149 \DeclareSymbolFont{delimiters}{U}{FdSymbolF}{m}{n}
150 \SetSymbolFont{symbols}{bold}{U}{FdSymbolA}{b}{n}
151 \SetSymbolFont{relations}{bold}{U}{FdSymbolB}{b}{n}
152 \SetSymbolFont{arrows}{bold}{U}{FdSymbolC}{b}{n}
153 \SetSymbolFont{narrows}{bold}{U}{FdSymbolD}{b}{n}
154 \SetSymbolFont{largesymbols}{bold}{U}{FdSymbolE}{b}{n}
155 \SetSymbolFont{delimiters}{bold}{U}{FdSymbolF}{b}{n}

```

At the moment, we still use cmsy for the calligraphic alphabet.

```

156 \DeclareMathAlphabet{\mathcal}{OMS}{cmsy}{m}{n}
157 \SetMathAlphabet{\mathcal}{bold}{OMS}{cmsy}{b}{n}

```

A command to take math symbols from text fonts.

```

158 \newcommand\fdsy@bold{bold}
159 \newcommand\fdsy@text[1]{%
160   \ifx\fdsy@bold\math@version
161     \text{\bfseries#1}%
162   \else
163     \text{\mdseries#1}%
164   \fi
165 }

```

FdSymbolA: binary operators and ordinary symbols

```

166 \fdsy@setslot{0}
167 \fdsy@DeclareSymbol{\cdotp}{symbols}{\mathbin}
168 \fdsy@DeclareAlias{\cdotp}{symbols}{\mathpunct}
169 \fdsy@DeclareSymbol{\hdotdot}{symbols}{\mathbin}
170 \fdsy@DeclareSymbol{\vdotdot}{symbols}{\mathbin}
171 \fdsy@DeclareAlias{\colon}{symbols}{\mathpunct}
172 \fdsy@DeclareAlias{\mathcolon}{symbols}{\mathpunct}
173 \fdsy@DeclareAlias{\mathratio}{symbols}{\mathrel}
174 \fdsy@DeclareSymbol{\udotdot}{symbols}{\mathbin}
175 \fdsy@DeclareSymbol{\ddotdot}{symbols}{\mathbin}
176 \fdsy@DeclareSymbol{\hdots}{symbols}{\mathord}
177 \fdsy@DeclareAlias{@cdots}{symbols}{\mathinner}
178 \let\cdots\@cdots
179 \fdsy@DeclareSymbol{@vdots}{symbols}{\mathord}
180 \DeclareRobustCommand{\vdots}{\ifmmode\@vdots\else\hbox{$\@vdots$}\fi}
181 \fdsy@DeclareSymbol{\udots}{symbols}{\mathord}
182 \fdsy@DeclareAlias{\adots}{symbols}{\mathord}
183 \fdsy@DeclareSymbol{\ddots}{symbols}{\mathord}
184 \fdsy@DeclareSymbol{\righttherefore}{symbols}{\mathord}
185 \fdsy@DeclareSymbol{\uptherefore}{symbols}{\mathord}

```

```

186 \fdsy@DeclareAlias{\therefore}{symbols}{\mathord}
187 \fdsy@DeclareSymbol{\lefttherefore}{symbols}{\mathord}
188 \fdsy@DeclareSymbol{\downtherefore}{symbols}{\mathord}
189 \fdsy@DeclareAlias{\because}{symbols}{\mathord}
190 \fdsy@DeclareSymbol{\squaredots}{symbols}{\mathord}
191 \fdsy@DeclareAlias{\Colon}{symbols}{\mathrel}
192 \fdsy@DeclareSymbol{\minus}{symbols}{\mathbin}
193 \fdsy@DeclareSymbol{\medslash}{symbols}{\mathbin}
194 \fdsy@DeclareAlias{\smalldivslash}{symbols}{\mathbin}
195 \fdsy@DeclareSymbol{\medbackslash}{symbols}{\mathbin}
196 \fdsy@DeclareAlias{\smallsetminus}{symbols}{\mathbin}
197 \fdsy@DeclareSymbol{\plus}{symbols}{\mathbin}
198 \fdsy@DeclareSymbol{\times}{symbols}{\mathbin}
199 \fdsy@DeclareSymbol{\dotminus}{symbols}{\mathbin}
200 \fdsy@DeclareSymbol{\minusdot}{symbols}{\mathbin}
201 \fdsy@DeclareSymbol{\div}{symbols}{\mathbin}
202 \fdsy@DeclareSymbol{\minusfdots}{symbols}{\mathbin}
203 \fdsy@DeclareSymbol{\minusrdots}{symbols}{\mathbin}
204 \fdsy@DeclareSymbol{\dotminusdots}{symbols}{\mathrel}
205 \fdsy@DeclareSymbol{\pm}{symbols}{\mathbin}
206 \fdsy@DeclareSymbol{\mp}{symbols}{\mathbin}
207 \fdsy@DeclareSymbol{\dotplus}{symbols}{\mathbin}
208 \fdsy@DeclareSymbol{\plusdot}{symbols}{\mathbin}
209 \fdsy@DeclareSymbol{\dottimes}{symbols}{\mathbin}
210 \fdsy@DeclareSymbol{\timesbar}{symbols}{\mathbin}
211 \fdsy@DeclareSymbol{\divideontimes}{symbols}{\mathbin}
212 \fdsy@DeclareSymbol{\neg}{symbols}{\mathord}
213 \fdsy@DeclareAlias{\lnot}{symbols}{\mathord}
214 \fdsy@DeclareAlias{\minushookdown}{symbols}{\mathbin}
215 \fdsy@DeclareSymbol{\backneg}{symbols}{\mathord}
216 \fdsy@DeclareAlias{\hookdownminus}{symbols}{\mathbin}
217 \fdsy@DeclareAlias{\invneg}{symbols}{\mathord}
218 \fdsy@DeclareAlias{\invnot}{symbols}{\mathord}
219 \fdsy@DeclareSymbol{\intprod}{symbols}{\mathbin}
220 \fdsy@DeclareAlias{\minushookup}{symbols}{\mathbin}
221 \fdsy@DeclareAlias{\turnedneg}{symbols}{\mathord}
222 \fdsy@DeclareAlias{\turnednot}{symbols}{\mathord}
223 \fdsy@DeclareSymbol{\intprodr}{symbols}{\mathbin}
224 \fdsy@DeclareAlias{\hookupminus}{symbols}{\mathbin}
225 \fdsy@DeclareAlias{\turnedbackneg}{symbols}{\mathord}
226 \fdsy@DeclareSymbol{\leftthreetimes}{symbols}{\mathbin}
227 \fdsy@DeclareSymbol{\rightthreetimes}{symbols}{\mathbin}
228 \fdsy@DeclareSymbol{\dtimes}{symbols}{\mathbin}
229 \fdsy@DeclareAlias{\btimes}{symbols}{\mathbin}
230 \fdsy@DeclareSymbol{\rtimes}{symbols}{\mathbin}

```



```

231 \fdsy@DeclareAlias{\rJoin}{symbols}{\mathrel}
232 \fdsy@DeclareSymbol{\utimes}{symbols}{\mathbin}
233 \fdsy@DeclareAlias{\ttimes}{symbols}{\mathbin}
234 \fdsy@DeclareSymbol{\ltimes}{symbols}{\mathbin}
235 \fdsy@DeclareAlias{\lJoin}{symbols}{\mathrel}
236 \fdsy@DeclareSymbol{\bowtie}{symbols}{\mathrel}
237 \fdsy@DeclareAlias{\Join}{symbols}{\mathrel}
238 \fdsy@DeclareAlias{\lrtimes}{symbols}{\mathbin}
239 \fdsy@DeclareSymbol{\upbowtie}{symbols}{\mathbin}
240 \fdsy@DeclareAlias{\hourglass}{symbols}{\mathbin}
241 \fdsy@DeclareSymbol{\rightY}{symbols}{\mathbin}
242 \fdsy@DeclareSymbol{\upY}{symbols}{\mathbin}
243 \fdsy@DeclareSymbol{\leftY}{symbols}{\mathbin}
244 \fdsy@DeclareSymbol{\downY}{symbols}{\mathbin}
245 \fdsy@DeclareSymbol{\wedge}{symbols}{\mathbin}
246 \fdsy@DeclareAlias{\land}{symbols}{\mathbin}
247 \fdsy@DeclareSymbol{\vee}{symbols}{\mathbin}
248 \fdsy@DeclareAlias{\lor}{symbols}{\mathbin}
249 \fdsy@DeclareSymbol{\wedgedot}{symbols}{\mathbin}
250 \fdsy@DeclareSymbol{\veedot}{symbols}{\mathbin}
251 \fdsy@DeclareSymbol{\doublewedge}{symbols}{\mathbin}
252 \fdsy@DeclareAlias{\wedgeonwedge}{symbols}{\mathbin}
253 \fdsy@DeclareSymbol{\doublevee}{symbols}{\mathbin}
254 \fdsy@DeclareAlias{\veeonvee}{symbols}{\mathbin}
255 \fdsy@DeclareSymbol{\curlywedge}{symbols}{\mathbin}
256 \fdsy@DeclareSymbol{\curlyvee}{symbols}{\mathbin}
257 \fdsy@DeclareSymbol{\barwedge}{symbols}{\mathbin}
258 \fdsy@DeclareSymbol{\veebar}{symbols}{\mathbin}
259 \fdsy@DeclareSymbol{\doublebarwedge}{symbols}{\mathbin}
260 \fdsy@DeclareSymbol{\veedoublebar}{symbols}{\mathbin}
261 \fdsy@DeclareSymbol{\cup}{symbols}{\mathbin}
262 \fdsy@DeclareSymbol{\cap}{symbols}{\mathbin}
263 \fdsy@DeclareSymbol{\doublecup}{symbols}{\mathbin}
264 \fdsy@DeclareAlias{\Cup}{symbols}{\mathbin}
265 \fdsy@DeclareSymbol{\doublecap}{symbols}{\mathbin}
266 \fdsy@DeclareAlias{\Cap}{symbols}{\mathbin}
267 \fdsy@DeclareSymbol{\cupdot}{symbols}{\mathbin}
268 \fdsy@DeclareSymbol{\capdot}{symbols}{\mathbin}
269 \fdsy@DeclareSymbol{\cupplus}{symbols}{\mathbin}
270 \fdsy@DeclareAlias{\uplus}{symbols}{\mathbin}
271 \fdsy@DeclareSymbol{\capplus}{symbols}{\mathbin}
272 \fdsy@DeclareSymbol{\sqcup}{symbols}{\mathbin}
273 \fdsy@DeclareSymbol{\sqcap}{symbols}{\mathbin}
274 \fdsy@DeclareSymbol{\doublesqcup}{symbols}{\mathbin}
275 \fdsy@DeclareAlias{\Sqcup}{symbols}{\mathbin}

```

```

276 \fdsy@DeclareSymbol{\doublesqcap}{symbols}{\mathbin}
277 \fdsy@DeclareAlias{\Sqcap}{symbols}{\mathbin}
278 \fdsy@DeclareSymbol{\sqcupdot}{symbols}{\mathbin}
279 \fdsy@DeclareSymbol{\sqcapdot}{symbols}{\mathbin}
280 \fdsy@DeclareSymbol{\sqcupplus}{symbols}{\mathbin}
281 \fdsy@DeclareSymbol{\sqcapplus}{symbols}{\mathbin}
282 \fdsy@DeclareSymbol{\pullback}{symbols}{\mathbin}
283 \fdsy@DeclareSymbol{\pushout}{symbols}{\mathbin}
284 \fdsy@DeclareSymbol{\smalltriangleright}{symbols}{\mathbin}
285 \fdsy@DeclareSymbol{\smalltriangleup}{symbols}{\mathbin}
286 \fdsy@DeclareSymbol{\smalltriangleleft}{symbols}{\mathbin}
287 \fdsy@DeclareSymbol{\smalltriangledown}{symbols}{\mathbin}
288 \fdsy@DeclareSymbol{\smallblacktriangleright}{symbols}{\mathbin}
289 \fdsy@DeclareSymbol{\smallblacktriangleup}{symbols}{\mathbin}
290 \fdsy@DeclareSymbol{\smallblacktriangleleft}{symbols}{\mathbin}
291 \fdsy@DeclareSymbol{\smallblacktriangledown}{symbols}{\mathbin}
292 \fdsy@DeclareSymbol{\medtriangleright}{symbols}{\mathbin}
293 \fdsy@DeclareAlias{\triangleright}{symbols}{\mathbin}
294 \fdsy@DeclareSymbol{\medtriangleup}{symbols}{\mathbin}
295 \fdsy@DeclareAlias{\triangle}{symbols}{\mathbin}
296 \fdsy@DeclareAlias{\vartriangle}{symbols}{\mathbin}
297 \fdsy@DeclareSymbol{\medtriangleleft}{symbols}{\mathbin}
298 \fdsy@DeclareAlias{\triangleleft}{symbols}{\mathbin}
299 \fdsy@DeclareSymbol{\medtriangledown}{symbols}{\mathbin}
300 \fdsy@DeclareAlias{\triangledown}{symbols}{\mathbin}
301 \fdsy@DeclareSymbol{\medblacktriangleright}{symbols}{\mathbin}
302 \fdsy@DeclareAlias{\blacktriangleright}{symbols}{\mathbin}
303 \fdsy@DeclareSymbol{\medblacktriangleup}{symbols}{\mathbin}
304 \fdsy@DeclareAlias{\blacktriangleup}{symbols}{\mathbin}
305 \fdsy@DeclareSymbol{\medblacktriangleleft}{symbols}{\mathbin}
306 \fdsy@DeclareAlias{\blacktriangleleft}{symbols}{\mathbin}
307 \fdsy@DeclareSymbol{\medblacktriangledown}{symbols}{\mathbin}
308 \fdsy@DeclareAlias{\blacktriangledown}{symbols}{\mathbin}
309 \fdsy@DeclareSymbol{\largetriangleup}{symbols}{\mathord}
310 \fdsy@DeclareAlias{\bigtriangleup}{symbols}{\mathbin}
311 \fdsy@DeclareSymbol{\largetriangledown}{symbols}{\mathord}
312 \fdsy@DeclareAlias{\bigtriangledown}{symbols}{\mathbin}
313 \fdsy@DeclareSymbol{\smallcircle}{symbols}{\mathbin}
314 \fdsy@DeclareAlias{\circ}{symbols}{\mathbin}
315 \fdsy@DeclareAlias{\smwhtcircle}{symbols}{\mathbin}
316 \fdsy@DeclareSymbol{\smallblackcircle}{symbols}{\mathbin}
317 \fdsy@DeclareAlias{\bullet}{symbols}{\mathbin}
318 \fdsy@DeclareAlias{\smbllkcircle}{symbols}{\mathbin}
319 \fdsy@DeclareSymbol{\medcircle}{symbols}{\mathbin}
320 \fdsy@DeclareAlias{\mdlgwhtcircle}{symbols}{\mathbin}

```

```

321 \fdsy@DeclareSymbol{\medblackcircle}{symbols}{\mathbin}
322 \fdsy@DeclareAlias{\mdlgblkcircle}{symbols}{\mathbin}
323 \fdsy@DeclareSymbol{\ominus}{symbols}{\mathbin}
324 \fdsy@DeclareSymbol{\overt}{symbols}{\mathbin}
325 \fdsy@DeclareAlias{\circledvert}{symbols}{\mathbin}
326 \fdsy@DeclareSymbol{\oslash}{symbols}{\mathbin}
327 \fdsy@DeclareSymbol{\obackslash}{symbols}{\mathbin}
328 \fdsy@DeclareAlias{\obslash}{symbols}{\mathbin}
329 \fdsy@DeclareSymbol{\oplus}{symbols}{\mathbin}
330 \fdsy@DeclareSymbol{\otimes}{symbols}{\mathbin}
331 \fdsy@DeclareSymbol{\odot}{symbols}{\mathbin}
332 \fdsy@DeclareSymbol{\ocirc}{symbols}{\mathbin}
333 \fdsy@DeclareAlias{\circledcirc}{symbols}{\mathbin}
334 \fdsy@DeclareSymbol{\oast}{symbols}{\mathbin}
335 \fdsy@DeclareAlias{\circledast}{symbols}{\mathbin}
336 \fdsy@DeclareSymbol{\odash}{symbols}{\mathbin}
337 \fdsy@DeclareAlias{\circleddash}{symbols}{\mathbin}
338 \fdsy@DeclareSymbol{\oequal}{symbols}{\mathbin}
339 \fdsy@DeclareAlias{\circledequal}{symbols}{\mathbin}
340 \fdsy@DeclareSymbol{\emptyset}{symbols}{\mathord}
341 \fdsy@DeclareAlias{\diameter}{symbols}{\mathord}
342 \fdsy@DeclareAlias{\varnothing}{symbols}{\mathord}
343 \fdsy@DeclareSymbol{\revemptyset}{symbols}{\mathord}
344 \fdsy@DeclareSymbol{\largecircle}{symbols}{\mathord}
345 \fdsy@DeclareAlias{\bigcirc}{symbols}{\mathord}
346 \fdsy@DeclareAlias{\lgwhtcircle}{symbols}{\mathord}
347 \fdsy@DeclareSymbol{\largeblackcircle}{symbols}{\mathord}
348 \fdsy@DeclareAlias{\lgblkcircle}{symbols}{\mathord}
349 \fdsy@DeclareSymbol{\smallsquare}{symbols}{\mathbin}
350 \fdsy@DeclareAlias{\smwhtsquare}{symbols}{\mathbin}
351 \fdsy@DeclareSymbol{\smallblacksquare}{symbols}{\mathbin}
352 \fdsy@DeclareAlias{\smbklsquare}{symbols}{\mathbin}
353 \fdsy@DeclareSymbol{\medsquare}{symbols}{\mathbin}
354 \fdsy@DeclareAlias{\square}{symbols}{\mathbin}
355 \fdsy@DeclareAlias{\Box}{symbols}{\mathbin}
356 \fdsy@DeclareAlias{\mdlgwhtsquare}{symbols}{\mathbin}
357 \fdsy@DeclareAlias{\mdwhtsquare}{symbols}{\mathbin}
358 \fdsy@DeclareSymbol{\medblacksquare}{symbols}{\mathbin}
359 \fdsy@DeclareAlias{\mdlgblklsquare}{symbols}{\mathbin}
360 \fdsy@DeclareAlias{\mdblklsquare}{symbols}{\mathbin}
361 \fdsy@DeclareSymbol{\boxminus}{symbols}{\mathbin}
362 \fdsy@DeclareSymbol{\boxvert}{symbols}{\mathbin}
363 \fdsy@DeclareAlias{\boxbar}{symbols}{\mathbin}
364 \fdsy@DeclareSymbol{\boxslash}{symbols}{\mathbin}
365 \fdsy@DeclareAlias{\boxdiag}{symbols}{\mathbin}

```

```

366 \fdsy@DeclareSymbol{\boxbackslash}{symbols}{\mathbin}
367 \fdsy@DeclareAlias{\boxbslash}{symbols}{\mathbin}
368 \fdsy@DeclareSymbol{\boxplus}{symbols}{\mathbin}
369 \fdsy@DeclareSymbol{\boxtimes}{symbols}{\mathbin}
370 \fdsy@DeclareSymbol{\boxdot}{symbols}{\mathbin}
371 \fdsy@DeclareSymbol{\boxbox}{symbols}{\mathbin}
372 \fdsy@DeclareSymbol{\largesquare}{symbols}{\mathord}
373 \fdsy@DeclareAlias{\lgwhtsquare}{symbols}{\mathord}
374 \fdsy@DeclareSymbol{\largeblacksquare}{symbols}{\mathord}
375 \fdsy@DeclareAlias{\lgblksquare}{symbols}{\mathord}
376 \fdsy@DeclareSymbol{\smalldiamond}{symbols}{\mathbin}
377 \fdsy@DeclareAlias{\diamond}{symbols}{\mathbin}
378 \fdsy@DeclareAlias{\smwhtdiamond}{symbols}{\mathbin}
379 \fdsy@DeclareSymbol{\smallblackdiamond}{symbols}{\mathbin}
380 \fdsy@DeclareAlias{\blackdiamond}{symbols}{\mathbin}
381 \fdsy@DeclareAlias{\smbldiamond}{symbols}{\mathbin}
382 \fdsy@DeclareSymbol{\meddiamond}{symbols}{\mathbin}
383 \fdsy@DeclareAlias{\Diamond}{symbols}{\mathbin}
384 \fdsy@DeclareAlias{\mdlgwhtdiamond}{symbols}{\mathbin}
385 \fdsy@DeclareAlias{\mdwhtdiamond}{symbols}{\mathbin}
386 \fdsy@DeclareSymbol{\medblackdiamond}{symbols}{\mathbin}
387 \fdsy@DeclareAlias{\mdlgblkdiamond}{symbols}{\mathbin}
388 \fdsy@DeclareAlias{\mdblkdiamond}{symbols}{\mathbin}
389 \fdsy@DeclareSymbol{\diamondminus}{symbols}{\mathbin}
390 \fdsy@DeclareSymbol{\diamondvert}{symbols}{\mathbin}
391 \fdsy@DeclareSymbol{\diamondslash}{symbols}{\mathbin}
392 \fdsy@DeclareSymbol{\diamondbackslash}{symbols}{\mathbin}
393 \fdsy@DeclareAlias{\diamondbslash}{symbols}{\mathbin}
394 \fdsy@DeclareSymbol{\diamondplus}{symbols}{\mathbin}
395 \fdsy@DeclareSymbol{\diamondtimes}{symbols}{\mathbin}
396 \fdsy@DeclareSymbol{\diamonddot}{symbols}{\mathbin}
397 \fdsy@DeclareAlias{\diamondcdot}{symbols}{\mathbin}
398 \fdsy@DeclareSymbol{\diamondddiamond}{symbols}{\mathbin}
399 \fdsy@DeclareSymbol{\smalllozenge}{symbols}{\mathord}
400 \fdsy@DeclareAlias{\smwhtlozenge}{symbols}{\mathord}
401 \fdsy@DeclareSymbol{\smallblacklozenge}{symbols}{\mathord}
402 \fdsy@DeclareAlias{\smbblklozenge}{symbols}{\mathord}
403 \fdsy@DeclareSymbol{\medlozenge}{symbols}{\mathord}
404 \fdsy@DeclareAlias{\lozenge}{symbols}{\mathord}
405 \fdsy@DeclareAlias{\mdlgwhtlozenge}{symbols}{\mathord}
406 \fdsy@DeclareAlias{\mdwhtlozenge}{symbols}{\mathord}
407 \fdsy@DeclareSymbol{\medblacklozenge}{symbols}{\mathord}
408 \fdsy@DeclareAlias{\blacklozenge}{symbols}{\mathord}
409 \fdsy@DeclareAlias{\mdlgblklozenge}{symbols}{\mathord}
410 \fdsy@DeclareAlias{\mdblkllozenge}{symbols}{\mathord}

```

```

411 \fdsy@DeclareSymbol{\lozengeminus}{symbols}{\mathord}
412 \fdsy@DeclareSymbol{\smallwhitestar}{symbols}{\mathbin}
413 \fdsy@DeclareAlias{\smwhitestar}{symbols}{\mathbin}
414 \fdsy@DeclareSymbol{\smallblackstar}{symbols}{\mathbin}
415 \fdsy@DeclareAlias{\star}{symbols}{\mathbin}
416 \fdsy@DeclareSymbol{\medwhitestar}{symbols}{\mathbin}
417 \fdsy@DeclareSymbol{\medblackstar}{symbols}{\mathbin}
418 \fdsy@DeclareAlias{\medstar}{symbols}{\mathbin}
419 \fdsy@DeclareSymbol{\largewhitestar}{symbols}{\mathord}
420 \fdsy@DeclareSymbol{\largeblackstar}{symbols}{\mathord}
421 \fdsy@DeclareAlias{\bigstar}{symbols}{\mathord}
422 \fdsy@DeclareSymbol{\ast}{symbols}{\mathbin}
423 \fdsy@DeclareSymbol{\infty}{symbols}{\mathord}
424 \fdsy@DeclareSymbol{\propto}{symbols}{\mathrel}
425 \fdsy@DeclareAlias{\varpropto}{symbols}{\mathrel}
426 \fdsy@DeclareSymbol{\backpropto}{symbols}{\mathrel}
427 \fdsy@DeclareAlias{\propfrom}{symbols}{\mathrel}
428 \fdsy@DeclareSymbol{\crossing}{symbols}{\mathrel}
429 \fdsy@DeclareSymbol{\between}{symbols}{\mathrel}
430 \fdsy@DeclareSymbol{\intercal}{symbols}{\mathbin}
431 \fdsy@DeclareSymbol{\wreath}{symbols}{\mathbin}
432 \fdsy@DeclareAlias{\wr}{symbols}{\mathbin}
433 \fdsy@DeclareSymbol{\angle}{symbols}{\mathord}
434 \fdsy@DeclareSymbol{\revangle}{symbols}{\mathord}
435 \fdsy@DeclareSymbol{\measuredangle}{symbols}{\mathord}
436 \fdsy@DeclareSymbol{\revmeasuredangle}{symbols}{\mathord}
437 \fdsy@DeclareAlias{\measuredangleleft}{symbols}{\mathord}
438 \fdsy@DeclareSymbol{\sphericalangle}{symbols}{\mathord}
439 \fdsy@DeclareSymbol{\sphericalangleup}{symbols}{\mathord}
440 \fdsy@DeclareSymbol{\sphericalangleleft}{symbols}{\mathord}
441 \fdsy@DeclareAlias{\revsphericalangle}{symbols}{\mathord}
442 \fdsy@DeclareAlias{\gtlpar}{symbols}{\mathord}
443 \fdsy@DeclareSymbol{\sphericalangledown}{symbols}{\mathord}
444 \fdsy@DeclareSymbol{\rightangle}{symbols}{\mathord}
445 \fdsy@DeclareSymbol{\measuredrightangle}{symbols}{\mathord}
446 \fdsy@DeclareSymbol{\rightanglesquare}{symbols}{\mathord}
447 \fdsy@DeclareAlias{\rightanglesqr}{symbols}{\mathord}
448 \fdsy@DeclareSymbol{\measuredrightangledot}{symbols}{\mathord}
449 \fdsy@DeclareAlias{\rightanglemdot}{symbols}{\mathord}
450 \fdsy@DeclareSymbol{\prime}{symbols}{\mathord}
451 \fdsy@DeclareSymbol{\backprime}{symbols}{\mathord}
452 \fdsy@DeclareSymbol{\smallprod}{symbols}{\mathop}
453 \fdsy@DeclareSymbol{\smallcoprod}{symbols}{\mathop}
454 \fdsy@DeclareAlias{\amalg}{symbols}{\mathbin}
455 \fdsy@DeclareSymbol{\smallint}{symbols}{\mathop}

```

```

456 \fdsy@DeclareSymbol{\checkmark}{symbols}{\mathord}
457 \fdsy@DeclareSymbol{\lightning}{symbols}{\mathord}
458 \fdsy@DeclareAlias{\downzigzagarrow}{symbols}{\mathord}
459 \fdsy@DeclareSymbol{\diamondsuit}{symbols}{\mathord}
460 \fdsy@DeclareSymbol{\vardiamondsuit}{symbols}{\mathord}
461 \fdsy@DeclareSymbol{\heartsuit}{symbols}{\mathord}
462 \fdsy@DeclareSymbol{\varheartsuit}{symbols}{\mathord}
463 \fdsy@DeclareSymbol{\spadesuit}{symbols}{\mathord}
464 \fdsy@DeclareSymbol{\clubsuit}{symbols}{\mathord}
465 \fdsy@DeclareSymbol{\maltese}{symbols}{\mathord}
466 \fdsy@DeclareSymbol{\starofdavid}{symbols}{\mathord}
467 \fdsy@DeclareSymbol{\sector}{symbols}{\mathord}
468 \fdsy@DeclareSymbol{\forall}{symbols}{\mathord}
469 \fdsy@DeclareSymbol{\exists}{symbols}{\mathord}
470 \fdsy@DeclareSymbol{\nexists}{symbols}{\mathord}
471 \fdsy@DeclareSymbol{\Finv}{symbols}{\mathord}
472 \fdsy@DeclareSymbol{\Game}{symbols}{\mathord}
473 \fdsy@DeclareSymbol{\complement}{symbols}{\mathord}
474 \fdsy@DeclareSymbol{\flat}{symbols}{\mathord}
475 \fdsy@DeclareSymbol{\natural}{symbols}{\mathord}
476 \fdsy@DeclareSymbol{\sharp}{symbols}{\mathord}
477 \fdsy@DeclareSymbol{\aleph}{symbols}{\mathord}
478 \fdsy@DeclareSymbol{\beth}{symbols}{\mathord}
479 \fdsy@DeclareSymbol{\gimel}{symbols}{\mathord}
480 \fdsy@DeclareSymbol{\daleth}{symbols}{\mathord}
481 \fdsy@DeclareSymbol{\wp}{symbols}{\mathord}

FdSymbolB: relations
482 \fdsy@setslot{0}
483 \fdsy@DeclareSymbol{\equal}{relations}{\mathrel}
484 \fdsy@DeclareSymbol{\equiv}{relations}{\mathrel}
485 \fdsy@DeclareSymbol{\sim}{relations}{\mathrel}
486 \fdsy@DeclareSymbol{\backsim}{relations}{\mathrel}
487 \fdsy@DeclareSymbol{\approx}{relations}{\mathrel}
488 \fdsy@DeclareSymbol{\triplesim}{relations}{\mathrel}
489 \fdsy@DeclareAlias{\approxident}{relations}{\mathrel}
490 \fdsy@DeclareSymbol{\simeq}{relations}{\mathrel}
491 \fdsy@DeclareSymbol{\backsimeq}{relations}{\mathrel}
492 \fdsy@DeclareSymbol{\eqsim}{relations}{\mathrel}
493 \fdsy@DeclareSymbol{\cong}{relations}{\mathrel}
494 \fdsy@DeclareSymbol{\backcong}{relations}{\mathrel}
495 \fdsy@DeclareSymbol{\approxeq}{relations}{\mathrel}
496 \fdsy@DeclareSymbol{\bumpeq}{relations}{\mathrel}
497 \fdsy@DeclareSymbol{\bumpeq}{relations}{\mathrel}
498 \fdsy@DeclareSymbol{\Bumpeq}{relations}{\mathrel}
499 \fdsy@DeclareSymbol{\doteq}{relations}{\mathrel}

```

```

500 \fdsy@DeclareSymbol{\eqdot}{relations}{\mathrel}
501 \fdsy@DeclareSymbol{\Doteq}{relations}{\mathrel}
502 \fdsy@DeclareAlias{\doteqdot}{relations}{\mathrel}
503 \fdsy@DeclareSymbol{\fallingdotseq}{relations}{\mathrel}
504 \fdsy@DeclareSymbol{\risingdotseq}{relations}{\mathrel}
505 \fdsy@DeclareSymbol{\coloneq}{relations}{\mathrel}
506 \fdsy@DeclareAlias{\coloneqq}{relations}{\mathrel}
507 \fdsy@DeclareSymbol{\eqcolon}{relations}{\mathrel}
508 \fdsy@DeclareAlias{\eqqcolon}{relations}{\mathrel}
509 \fdsy@DeclareSymbol{\smile}{relations}{\mathrel}
510 \fdsy@DeclareAlias{\smallsmile}{relations}{\mathrel}
511 \fdsy@DeclareSymbol{\frown}{relations}{\mathrel}
512 \fdsy@DeclareAlias{\smallfrown}{relations}{\mathrel}
513 \fdsy@DeclareSymbol{\smilefrown}{relations}{\mathrel}
514 \fdsy@DeclareAlias{\asymp}{relations}{\mathrel}
515 \fdsy@DeclareSymbol{\frownsmile}{relations}{\mathrel}
516 \fdsy@DeclareAlias{\closure}{relations}{\mathrel}
517 \fdsy@DeclareSymbol{\smileeq}{relations}{\mathrel}
518 \fdsy@DeclareSymbol{\frowneq}{relations}{\mathrel}
519 \fdsy@DeclareAlias{\arceq}{relations}{\mathrel}
520 \fdsy@DeclareSymbol{\eqcirc}{relations}{\mathrel}
521 \fdsy@DeclareSymbol{\circeq}{relations}{\mathrel}
522 \fdsy@DeclareSymbol{\wedg eq}{relations}{\mathrel}
523 \fdsy@DeclareAlias{\hateq}{relations}{\mathrel}
524 \fdsy@DeclareSymbol{\veeeq}{relations}{\mathrel}
525 \fdsy@DeclareSymbol{\stareq}{relations}{\mathrel}
526 \fdsy@DeclareSymbol{\triangleeq}{relations}{\mathrel}
527 \fdsy@DeclareAlias{\triangleq}{relations}{\mathrel}
528 \fdsy@DeclareSymbol{\in}{relations}{\mathrel}
529 \fdsy@DeclareSymbol{\owns}{relations}{\mathrel}
530 \fdsy@DeclareAlias{\ni}{relations}{\mathrel}
531 \fdsy@DeclareSymbol{\less}{relations}{\mathrel}
532 \fdsy@DeclareSymbol{\gtr}{relations}{\mathrel}
533 \fdsy@DeclareSymbol{\leq}{relations}{\mathrel}
534 \fdsy@DeclareAlias{\le}{relations}{\mathrel}
535 \fdsy@DeclareSymbol{\geq}{relations}{\mathrel}
536 \fdsy@DeclareAlias{\ge}{relations}{\mathrel}
537 \fdsy@DeclareSymbol{\leqslant}{relations}{\mathrel}
538 \fdsy@DeclareSymbol{\geqslant}{relations}{\mathrel}
539 \fdsy@DeclareSymbol{\leqq}{relations}{\mathrel}
540 \fdsy@DeclareSymbol{\geqq}{relations}{\mathrel}
541 \fdsy@DeclareSymbol{\lesssim}{relations}{\mathrel}
542 \fdsy@DeclareSymbol{\gtrsim}{relations}{\mathrel}
543 \fdsy@DeclareSymbol{\lessapprox}{relations}{\mathrel}
544 \fdsy@DeclareSymbol{\gtrapprox}{relations}{\mathrel}

```

```

545 \fdsy@DeclareSymbol{\lessgtr}{relations}{\mathrel}
546 \fdsy@DeclareSymbol{\gtrless}{relations}{\mathrel}
547 \fdsy@DeclareSymbol{\lesseqgtr}{relations}{\mathrel}
548 \fdsy@DeclareSymbol{\gtreqless}{relations}{\mathrel}
549 \fdsy@DeclareSymbol{\lesseqqgtr}{relations}{\mathrel}
550 \fdsy@DeclareSymbol{\gtreqqless}{relations}{\mathrel}
551 \fdsy@DeclareSymbol{\lesseqslantgtr}{relations}{\mathrel}
552 \fdsy@DeclareAlias{\lesg}{relations}{\mathrel}
553 \fdsy@DeclareAlias{\lesseqgtrslant}{relations}{\mathrel}
554 \fdsy@DeclareSymbol{\gtreqslantless}{relations}{\mathrel}
555 \fdsy@DeclareAlias{\gesl}{relations}{\mathrel}
556 \fdsy@DeclareAlias{\gtreqlessslant}{relations}{\mathrel}
557 \fdsy@DeclareSymbol{\ll}{relations}{\mathrel}
558 \fdsy@DeclareSymbol{\gg}{relations}{\mathrel}
559 \fdsy@DeclareSymbol{\lll}{relations}{\mathrel}
560 \fdsy@DeclareAlias{\lllless}{relations}{\mathrel}
561 \fdsy@DeclareSymbol{\ggg}{relations}{\mathrel}
562 \fdsy@DeclareAlias{\gggtr}{relations}{\mathrel}
563 \fdsy@DeclareSymbol{\lessclosed}{relations}{\mathrel}
564 \fdsy@DeclareAlias{\lhd}{relations}{\mathbin}
565 \fdsy@DeclareAlias{\vartriangleleft}{relations}{\mathrel}
566 \fdsy@DeclareSymbol{\gtrclosed}{relations}{\mathrel}
567 \fdsy@DeclareAlias{\rhd}{relations}{\mathbin}
568 \fdsy@DeclareAlias{\vartriangleright}{relations}{\mathrel}
569 \fdsy@DeclareSymbol{\leqclosed}{relations}{\mathrel}
570 \fdsy@DeclareAlias{\unlhd}{relations}{\mathbin}
571 \fdsy@DeclareAlias{\trianglelefteq}{relations}{\mathrel}
572 \fdsy@DeclareSymbol{\geqclosed}{relations}{\mathrel}
573 \fdsy@DeclareAlias{\unrhd}{relations}{\mathbin}
574 \fdsy@DeclareAlias{\trianglerighteq}{relations}{\mathrel}
575 \fdsy@DeclareSymbol{\lesscc}{relations}{\mathrel}
576 \fdsy@DeclareAlias{\ltcc}{relations}{\mathrel}
577 \fdsy@DeclareSymbol{\gtrcc}{relations}{\mathrel}
578 \fdsy@DeclareAlias{\gtcc}{relations}{\mathrel}
579 \fdsy@DeclareSymbol{\leqslcc}{relations}{\mathrel}
580 \fdsy@DeclareAlias{\lescc}{relations}{\mathrel}
581 \fdsy@DeclareSymbol{\geqslcc}{relations}{\mathrel}
582 \fdsy@DeclareAlias{\gescc}{relations}{\mathrel}
583 \fdsy@DeclareSymbol{\sqsubset}{relations}{\mathrel}
584 \fdsy@DeclareSymbol{\sqsupset}{relations}{\mathrel}
585 \fdsy@DeclareSymbol{\sqsubseteq}{relations}{\mathrel}
586 \fdsy@DeclareSymbol{\sqsupseteq}{relations}{\mathrel}
587 \fdsy@DeclareSymbol{\sqsubseteqq}{relations}{\mathrel}
588 \fdsy@DeclareSymbol{\sqsupseteqq}{relations}{\mathrel}
589 \fdsy@DeclareSymbol{\Sqsubset}{relations}{\mathrel}

```



```

590 \fdsy@DeclareSymbol{\Sqsupset}{relations}{\mathrel}
591 \fdsy@DeclareSymbol{\subset}{relations}{\mathrel}
592 \fdsy@DeclareSymbol{\supset}{relations}{\mathrel}
593 \fdsy@DeclareSymbol{\subseteq}{relations}{\mathrel}
594 \fdsy@DeclareSymbol{\supseteq}{relations}{\mathrel}
595 \fdsy@DeclareSymbol{\subseteqq}{relations}{\mathrel}
596 \fdsy@DeclareSymbol{\supseteqq}{relations}{\mathrel}
597 \fdsy@DeclareSymbol{\Subset}{relations}{\mathrel}
598 \fdsy@DeclareSymbol{\Supset}{relations}{\mathrel}
599 \fdsy@DeclareSymbol{\prec}{relations}{\mathrel}
600 \fdsy@DeclareSymbol{\succ}{relations}{\mathrel}
601 \fdsy@DeclareSymbol{\preceq}{relations}{\mathrel}
602 \fdsy@DeclareSymbol{\succeq}{relations}{\mathrel}
603 \fdsy@DeclareSymbol{\preccurlyeq}{relations}{\mathrel}
604 \fdsy@DeclareSymbol{\succcurlyeq}{relations}{\mathrel}
605 \fdsy@DeclareSymbol{\preceqq}{relations}{\mathrel}
606 \fdsy@DeclareSymbol{\succeqq}{relations}{\mathrel}
607 \fdsy@DeclareSymbol{\precsim}{relations}{\mathrel}
608 \fdsy@DeclareSymbol{\succsim}{relations}{\mathrel}
609 \fdsy@DeclareSymbol{\precapprox}{relations}{\mathrel}
610 \fdsy@DeclareSymbol{\succapprox}{relations}{\mathrel}
611 \fdsy@DeclareSymbol{\lessdot}{relations}{\mathrel}
612 \fdsy@DeclareSymbol{\gtrdot}{relations}{\mathrel}
613 \fdsy@DeclareSymbol{\leqdot}{relations}{\mathrel}
614 \fdsy@DeclareSymbol{\geqdot}{relations}{\mathrel}
615 \fdsy@DeclareSymbol{\leqslantdot}{relations}{\mathrel}
616 \fdsy@DeclareAlias{\lesdot}{relations}{\mathrel}
617 \fdsy@DeclareSymbol{\geqslantdot}{relations}{\mathrel}
618 \fdsy@DeclareAlias{\gesdot}{relations}{\mathrel}
619 \fdsy@DeclareSymbol{\eqslantless}{relations}{\mathrel}
620 \fdsy@DeclareSymbol{\eqslantgtr}{relations}{\mathrel}
621 \fdsy@DeclareSymbol{\curlyeqprec}{relations}{\mathrel}
622 \fdsy@DeclareSymbol{\curlyeqsucc}{relations}{\mathrel}
623 \fdsy@DeclareSymbol{\nequal}{relations}{\mathrel}
624 \fdsy@DeclareAlias{\neq}{relations}{\mathrel}
625 \fdsy@DeclareAlias{\ne}{relations}{\mathrel}
626 \fdsy@DeclareSymbol{\nequiv}{relations}{\mathrel}
627 \fdsy@DeclareSymbol{\nsim}{relations}{\mathrel}
628 \fdsy@DeclareSymbol{\nbacksim}{relations}{\mathrel}
629 \fdsy@DeclareSymbol{\napprox}{relations}{\mathrel}
630 \fdsy@DeclareSymbol{\ntriplesim}{relations}{\mathrel}
631 \fdsy@DeclareAlias{\napproxident}{relations}{\mathrel}
632 \fdsy@DeclareSymbol{\nsimeq}{relations}{\mathrel}
633 \fdsy@DeclareAlias{\nsime}{relations}{\mathrel}
634 \fdsy@DeclareSymbol{\nbacksimeq}{relations}{\mathrel}

```

```

635 \fdsy@DeclareSymbol{\neqsim}{relations}{\mathrel}
636 \fdsy@DeclareSymbol{\ncong}{relations}{\mathrel}
637 \fdsy@DeclareSymbol{\nbackcong}{relations}{\mathrel}
638 \fdsy@DeclareSymbol{\napproxeq}{relations}{\mathrel}
639 \fdsy@DeclareSymbol{\nbumpeq}{relations}{\mathrel}
640 \fdsy@DeclareSymbol{\nbumpeqeq}{relations}{\mathrel}
641 \fdsy@DeclareSymbol{\nBumpeq}{relations}{\mathrel}
642 \fdsy@DeclareSymbol{\ndoteq}{relations}{\mathrel}
643 \fdsy@DeclareSymbol{\neqdot}{relations}{\mathrel}
644 \fdsy@DeclareSymbol{\nDoteq}{relations}{\mathrel}
645 \fdsy@DeclareSymbol{\nfallingdotseq}{relations}{\mathrel}
646 \fdsy@DeclareSymbol{\nrisingdotseq}{relations}{\mathrel}
647 \fdsy@DeclareSymbol{\nsmile}{relations}{\mathrel}
648 \fdsy@DeclareSymbol{\nfrown}{relations}{\mathrel}
649 \fdsy@DeclareSymbol{\nsmilefrown}{relations}{\mathrel}
650 \fdsy@DeclareAlias{\nasymp}{relations}{\mathrel}
651 \fdsy@DeclareSymbol{\nfrownsmile}{relations}{\mathrel}
652 \fdsy@DeclareAlias{\nclosure}{relations}{\mathrel}
653 \fdsy@DeclareSymbol{\nsmileeq}{relations}{\mathrel}
654 \fdsy@DeclareSymbol{\nfrowneq}{relations}{\mathrel}
655 \fdsy@DeclareAlias{\narceq}{relations}{\mathrel}
656 \fdsy@DeclareSymbol{\neqcirc}{relations}{\mathrel}
657 \fdsy@DeclareSymbol{\ncirceq}{relations}{\mathrel}
658 \fdsy@DeclareSymbol{\nwedgeq}{relations}{\mathrel}
659 \fdsy@DeclareAlias{\nhateq}{relations}{\mathrel}
660 \fdsy@DeclareSymbol{\nveeeq}{relations}{\mathrel}
661 \fdsy@DeclareSymbol{\nstareq}{relations}{\mathrel}
662 \fdsy@DeclareSymbol{\ntriangleeq}{relations}{\mathrel}
663 \fdsy@DeclareSymbol{\nin}{relations}{\mathrel}
664 \fdsy@DeclareAlias{\notin}{relations}{\mathrel}
665 \fdsy@DeclareSymbol{\nowns}{relations}{\mathrel}
666 \fdsy@DeclareAlias{\nni}{relations}{\mathrel}
667 \fdsy@DeclareSymbol{\nless}{relations}{\mathrel}
668 \fdsy@DeclareSymbol{\ngtr}{relations}{\mathrel}
669 \fdsy@DeclareSymbol{\nleq}{relations}{\mathrel}
670 \fdsy@DeclareSymbol{\ngeq}{relations}{\mathrel}
671 \fdsy@DeclareSymbol{\nleqslant}{relations}{\mathrel}
672 \fdsy@DeclareSymbol{\ngeqslant}{relations}{\mathrel}
673 \fdsy@DeclareSymbol{\nleqq}{relations}{\mathrel}
674 \fdsy@DeclareSymbol{\ngeqq}{relations}{\mathrel}
675 \fdsy@DeclareSymbol{\nlesssim}{relations}{\mathrel}
676 \fdsy@DeclareSymbol{\ngtrsim}{relations}{\mathrel}
677 \fdsy@DeclareSymbol{\nlessapprox}{relations}{\mathrel}
678 \fdsy@DeclareSymbol{\ngtrapprox}{relations}{\mathrel}
679 \fdsy@DeclareSymbol{\nlessgtr}{relations}{\mathrel}

```

```

680 \fdsy@DeclareSymbol{\ngtrless}{relations}{\mathrel}
681 \fdsy@DeclareSymbol{\nlesseqgtr}{relations}{\mathrel}
682 \fdsy@DeclareSymbol{\ngtreqlless}{relations}{\mathrel}
683 \fdsy@DeclareSymbol{\nlesseqqgtr}{relations}{\mathrel}
684 \fdsy@DeclareSymbol{\ngtreqqless}{relations}{\mathrel}
685 \fdsy@DeclareSymbol{\nlesseqslantgtr}{relations}{\mathrel}
686 \fdsy@DeclareAlias{\nlesg}{relations}{\mathrel}
687 \fdsy@DeclareAlias{\nlesseqgtrslant}{relations}{\mathrel}
688 \fdsy@DeclareSymbol{\ngtreqslantless}{relations}{\mathrel}
689 \fdsy@DeclareAlias{\ngesl}{relations}{\mathrel}
690 \fdsy@DeclareAlias{\ngtreqllessslant}{relations}{\mathrel}
691 \fdsy@DeclareSymbol{\nll}{relations}{\mathrel}
692 \fdsy@DeclareSymbol{\ngg}{relations}{\mathrel}
693 \fdsy@DeclareSymbol{\nlll}{relations}{\mathrel}
694 \fdsy@DeclareSymbol{\nggg}{relations}{\mathrel}
695 \fdsy@DeclareSymbol{\nlessclosed}{relations}{\mathrel}
696 \fdsy@DeclareAlias{\ntriangleleft}{relations}{\mathrel}
697 \fdsy@DeclareSymbol{\ngtrclosed}{relations}{\mathrel}
698 \fdsy@DeclareAlias{\ntriangleright}{relations}{\mathrel}
699 \fdsy@DeclareSymbol{\nleqclosed}{relations}{\mathrel}
700 \fdsy@DeclareAlias{\ntrianglelefteq}{relations}{\mathrel}
701 \fdsy@DeclareSymbol{\ngeqclosed}{relations}{\mathrel}
702 \fdsy@DeclareAlias{\ntrianglerighteq}{relations}{\mathrel}
703 \fdsy@DeclareSymbol{\nlesscc}{relations}{\mathrel}
704 \fdsy@DeclareAlias{\nltcc}{relations}{\mathrel}
705 \fdsy@DeclareSymbol{\ngtrcc}{relations}{\mathrel}
706 \fdsy@DeclareAlias{\ngtcc}{relations}{\mathrel}
707 \fdsy@DeclareSymbol{\nleqslcc}{relations}{\mathrel}
708 \fdsy@DeclareAlias{\nlescc}{relations}{\mathrel}
709 \fdsy@DeclareSymbol{\ngeqslcc}{relations}{\mathrel}
710 \fdsy@DeclareAlias{\ngescc}{relations}{\mathrel}
711 \fdsy@DeclareSymbol{\nsqsubset}{relations}{\mathrel}
712 \fdsy@DeclareSymbol{\nsqsupset}{relations}{\mathrel}
713 \fdsy@DeclareSymbol{\nsqsubseteq}{relations}{\mathrel}
714 \fdsy@DeclareSymbol{\nsqsupseteq}{relations}{\mathrel}
715 \fdsy@DeclareSymbol{\nsqsubseteq}{relations}{\mathrel}
716 \fdsy@DeclareSymbol{\nsqsupseteqeq}{relations}{\mathrel}
717 \fdsy@DeclareSymbol{\nSqsubset}{relations}{\mathrel}
718 \fdsy@DeclareSymbol{\nSqsupset}{relations}{\mathrel}
719 \fdsy@DeclareSymbol{\nsubset}{relations}{\mathrel}
720 \fdsy@DeclareSymbol{\nsupset}{relations}{\mathrel}
721 \fdsy@DeclareSymbol{\nsubseteq}{relations}{\mathrel}
722 \fdsy@DeclareSymbol{\nsupseteq}{relations}{\mathrel}
723 \fdsy@DeclareSymbol{\nsubseteq}{relations}{\mathrel}
724 \fdsy@DeclareSymbol{\nsupseteqeq}{relations}{\mathrel}

```

```

725 \fdsy@DeclareSymbol{\nSubset}{relations}{\mathrel}
726 \fdsy@DeclareSymbol{\nSupset}{relations}{\mathrel}
727 \fdsy@DeclareSymbol{\nprec}{relations}{\mathrel}
728 \fdsy@DeclareSymbol{\nsucc}{relations}{\mathrel}
729 \fdsy@DeclareSymbol{\npreceq}{relations}{\mathrel}
730 \fdsy@DeclareSymbol{\nsucceq}{relations}{\mathrel}
731 \fdsy@DeclareSymbol{\npreccurlyeq}{relations}{\mathrel}
732 \fdsy@DeclareSymbol{\nsucccurlyeq}{relations}{\mathrel}
733 \fdsy@DeclareSymbol{\npreceqq}{relations}{\mathrel}
734 \fdsy@DeclareSymbol{\nsucceqq}{relations}{\mathrel}
735 \fdsy@DeclareSymbol{\nprecsim}{relations}{\mathrel}
736 \fdsy@DeclareSymbol{\nsuccsim}{relations}{\mathrel}
737 \fdsy@DeclareSymbol{\nprecapprox}{relations}{\mathrel}
738 \fdsy@DeclareSymbol{\nsuccapprox}{relations}{\mathrel}
739 \fdsy@DeclareSymbol{\nlessdot}{relations}{\mathrel}
740 \fdsy@DeclareSymbol{\ngtrdot}{relations}{\mathrel}
741 \fdsy@DeclareSymbol{\nleqdot}{relations}{\mathrel}
742 \fdsy@DeclareSymbol{\ngeqdot}{relations}{\mathrel}
743 \fdsy@DeclareSymbol{\nleqslantdot}{relations}{\mathrel}
744 \fdsy@DeclareAlias{\nlesdot}{relations}{\mathrel}
745 \fdsy@DeclareSymbol{\ngeqslantdot}{relations}{\mathrel}
746 \fdsy@DeclareAlias{\ngesdot}{relations}{\mathrel}
747 \fdsy@DeclareSymbol{\neqslantless}{relations}{\mathrel}
748 \fdsy@DeclareSymbol{\neqslantgtr}{relations}{\mathrel}
749 \fdsy@DeclareSymbol{\ncurlyeqprec}{relations}{\mathrel}
750 \fdsy@DeclareSymbol{\ncurlyeqsucc}{relations}{\mathrel}
751 \fdsy@DeclareSymbol{\simneqq}{relations}{\mathrel}
752 \fdsy@DeclareSymbol{\backsimneqq}{relations}{\mathrel}
753 \fdsy@DeclareSymbol{\lneq}{relations}{\mathrel}
754 \fdsy@DeclareSymbol{\gneq}{relations}{\mathrel}
755 \fdsy@DeclareSymbol{\lneqq}{relations}{\mathrel}
756 \fdsy@DeclareAlias{\lvertneqq}{relations}{\mathrel}
757 \fdsy@DeclareSymbol{\gneqq}{relations}{\mathrel}
758 \fdsy@DeclareAlias{\gvertneqq}{relations}{\mathrel}
759 \fdsy@DeclareSymbol{\lnsim}{relations}{\mathrel}
760 \fdsy@DeclareSymbol{\gnsim}{relations}{\mathrel}
761 \fdsy@DeclareSymbol{\lnapprox}{relations}{\mathrel}
762 \fdsy@DeclareSymbol{\gnapprox}{relations}{\mathrel}
763 \fdsy@DeclareSymbol{\sqsubsetneq}{relations}{\mathrel}
764 \fdsy@DeclareSymbol{\sqsupsetneq}{relations}{\mathrel}
765 \fdsy@DeclareSymbol{\sqsubsetneqq}{relations}{\mathrel}
766 \fdsy@DeclareSymbol{\sqsupsetneqq}{relations}{\mathrel}
767 \fdsy@DeclareSymbol{\subsetneq}{relations}{\mathrel}
768 \fdsy@DeclareAlias{\varsubsetneq}{relations}{\mathrel}
769 \fdsy@DeclareSymbol{\supsetneq}{relations}{\mathrel}

```

```

770 \fdsy@DeclareAlias{\varsupsetneq}{relations}{\mathrel}
771 \fdsy@DeclareSymbol{\subsetneqq}{relations}{\mathrel}
772 \fdsy@DeclareAlias{\varsubsetneqq}{relations}{\mathrel}
773 \fdsy@DeclareSymbol{\supsetneqq}{relations}{\mathrel}
774 \fdsy@DeclareAlias{\varsupsetneqq}{relations}{\mathrel}
775 \fdsy@DeclareSymbol{\precneq}{relations}{\mathrel}
776 \fdsy@DeclareSymbol{\succneq}{relations}{\mathrel}
777 \fdsy@DeclareSymbol{\precneqq}{relations}{\mathrel}
778 \fdsy@DeclareSymbol{\succneqq}{relations}{\mathrel}
779 \fdsy@DeclareSymbol{\precnsim}{relations}{\mathrel}
780 \fdsy@DeclareSymbol{\succnsim}{relations}{\mathrel}
781 \fdsy@DeclareSymbol{\precnapprox}{relations}{\mathrel}
782 \fdsy@DeclareSymbol{\succnapprox}{relations}{\mathrel}

```

FdSymbolC: arrows and turnstile symbols

```

783 \fdsy@setslot{0}
784 \fdsy@DeclareSymbol{\rightarrow}{arrows}{\mathrel}
785 \fdsy@DeclareAlias{\to}{arrows}{\mathrel}
786 \fdsy@DeclareSymbol{\uparrow}{arrows}{\mathrel}
787 \fdsy@DeclareSymbol{\leftarrow}{arrows}{\mathrel}
788 \fdsy@DeclareAlias{\gets}{arrows}{\mathrel}
789 \fdsy@DeclareSymbol{\downarrow}{arrows}{\mathrel}
790 \fdsy@DeclareSymbol{\nearrow}{arrows}{\mathrel}
791 \fdsy@DeclareSymbol{\nwarrow}{arrows}{\mathrel}
792 \fdsy@DeclareSymbol{\swarrow}{arrows}{\mathrel}
793 \fdsy@DeclareSymbol{\searrow}{arrows}{\mathrel}
794 \fdsy@DeclareSymbol{\Rightarrow}{arrows}{\mathrel}
795 \fdsy@DeclareSymbol{\Uparrow}{arrows}{\mathrel}
796 \fdsy@DeclareSymbol{\Leftarrow}{arrows}{\mathrel}
797 \fdsy@DeclareSymbol{\Downarrow}{arrows}{\mathrel}
798 \fdsy@DeclareSymbol{\Nearrow}{arrows}{\mathrel}
799 \fdsy@DeclareSymbol{\Nwarrow}{arrows}{\mathrel}
800 \fdsy@DeclareSymbol{\Swarrow}{arrows}{\mathrel}
801 \fdsy@DeclareSymbol{\Searrow}{arrows}{\mathrel}
802 \fdsy@DeclareSymbol{\leftrightharpoonup}{arrows}{\mathrel}
803 \fdsy@DeclareSymbol{\updownarrow}{arrows}{\mathrel}
804 \fdsy@DeclareSymbol{\neswarpoonup}{arrows}{\mathrel}
805 \fdsy@DeclareSymbol{\nwsearrow}{arrows}{\mathrel}
806 \fdsy@DeclareSymbol{\Leftrightarrow}{arrows}{\mathrel}
807 \fdsy@DeclareSymbol{\Updownarrow}{arrows}{\mathrel}
808 \fdsy@DeclareSymbol{\Neswarpoonup}{arrows}{\mathrel}
809 \fdsy@DeclareSymbol{\Nwsearrow}{arrows}{\mathrel}
810 \fdsy@DeclareSymbol{\twoheadrightarrow}{arrows}{\mathrel}
811 \fdsy@DeclareSymbol{\twoheaduparrow}{arrows}{\mathrel}
812 \fdsy@DeclareSymbol{\twoheadleftarrow}{arrows}{\mathrel}
813 \fdsy@DeclareSymbol{\twoheaddownarrow}{arrows}{\mathrel}

```

```

814 \fdsy@DeclareSymbol{\twoheadnearrow}{arrows}{\mathrel}
815 \fdsy@DeclareSymbol{\twoheadnwarrow}{arrows}{\mathrel}
816 \fdsy@DeclareSymbol{\twoheadswarrow}{arrows}{\mathrel}
817 \fdsy@DeclareSymbol{\twoheadsearrow}{arrows}{\mathrel}
818 \fdsy@DeclareSymbol{\rightarrowtail}{arrows}{\mathrel}
819 \fdsy@DeclareSymbol{\uparrowtail}{arrows}{\mathrel}
820 \fdsy@DeclareSymbol{\leftarrowtail}{arrows}{\mathrel}
821 \fdsy@DeclareSymbol{\downarrowtail}{arrows}{\mathrel}
822 \fdsy@DeclareSymbol{\nearrowtail}{arrows}{\mathrel}
823 \fdsy@DeclareSymbol{\nwarrowtail}{arrows}{\mathrel}
824 \fdsy@DeclareSymbol{\swarrowtail}{arrows}{\mathrel}
825 \fdsy@DeclareSymbol{\searrowtail}{arrows}{\mathrel}
826 \fdsy@DeclareSymbol{\rightmapsto}{arrows}{\mathrel}
827 \fdsy@DeclareAlias{\mapsto}{arrows}{\mathrel}
828 \fdsy@DeclareSymbol{\upmapsto}{arrows}{\mathrel}
829 \fdsy@DeclareAlias{\mapsup}{arrows}{\mathrel}
830 \fdsy@DeclareSymbol{\leftmapsto}{arrows}{\mathrel}
831 \fdsy@DeclareAlias{\mapsfrom}{arrows}{\mathrel}
832 \fdsy@DeclareSymbol{\downmapsto}{arrows}{\mathrel}
833 \fdsy@DeclareAlias{\mapsdown}{arrows}{\mathrel}
834 \fdsy@DeclareSymbol{\Rightmapsto}{arrows}{\mathrel}
835 \fdsy@DeclareAlias{\Mapsto}{arrows}{\mathrel}
836 \fdsy@DeclareSymbol{\Upmapsto}{arrows}{\mathrel}
837 \fdsy@DeclareAlias{\Mapsup}{arrows}{\mathrel}
838 \fdsy@DeclareSymbol{\Leftmapsto}{arrows}{\mathrel}
839 \fdsy@DeclareAlias{\Mapsfrom}{arrows}{\mathrel}
840 \fdsy@DeclareSymbol{\Downmapsto}{arrows}{\mathrel}
841 \fdsy@DeclareAlias{\Mapsdown}{arrows}{\mathrel}
842 \fdsy@DeclareSymbol{\hookrightarrow}{arrows}{\mathrel}
843 \fdsy@DeclareAlias{\lhookrightarrow}{arrows}{\mathrel}
844 \fdsy@DeclareSymbol{\hookuparrow}{arrows}{\mathrel}
845 \fdsy@DeclareAlias{\lhookuparrow}{arrows}{\mathrel}
846 \fdsy@DeclareSymbol{\varhookleftarrow}{arrows}{\mathrel}
847 \fdsy@DeclareAlias{\lhookleftarrow}{arrows}{\mathrel}
848 \fdsy@DeclareSymbol{\varhookrightarrow}{arrows}{\mathrel}
849 \fdsy@DeclareAlias{\lhookrightarrow}{arrows}{\mathrel}
850 \fdsy@DeclareSymbol{\varhooknearrow}{arrows}{\mathrel}
851 \fdsy@DeclareAlias{\lhooknearrow}{arrows}{\mathrel}
852 \fdsy@DeclareSymbol{\hooknwarrow}{arrows}{\mathrel}
853 \fdsy@DeclareAlias{\hknwarrow}{arrows}{\mathrel}
854 \fdsy@DeclareAlias{\lhooknwarrow}{arrows}{\mathrel}
855 \fdsy@DeclareSymbol{\varhookswarrow}{arrows}{\mathrel}
856 \fdsy@DeclareAlias{\lhookswarrow}{arrows}{\mathrel}
857 \fdsy@DeclareSymbol{\hooksearrow}{arrows}{\mathrel}
858 \fdsy@DeclareAlias{\hksearrow}{arrows}{\mathrel}

```

```

859 \fdsy@DeclareAlias{\lhooksearrow}{arrows}{\mathrel}
860 \fdsy@DeclareSymbol{\varhookrightarrow}{arrows}{\mathrel}
861 \fdsy@DeclareAlias{\rhookrightarrow}{arrows}{\mathrel}
862 \fdsy@DeclareSymbol{\varhookuparrow}{arrows}{\mathrel}
863 \fdsy@DeclareAlias{\rhookuparrow}{arrows}{\mathrel}
864 \fdsy@DeclareSymbol{\hookleftarrow}{arrows}{\mathrel}
865 \fdsy@DeclareAlias{\rhookleftarrow}{arrows}{\mathrel}
866 \fdsy@DeclareSymbol{\hookdownarrow}{arrows}{\mathrel}
867 \fdsy@DeclareAlias{\rhookdownarrow}{arrows}{\mathrel}
868 \fdsy@DeclareSymbol{\hooknearrow}{arrows}{\mathrel}
869 \fdsy@DeclareAlias{\hknearrow}{arrows}{\mathrel}
870 \fdsy@DeclareAlias{\rhooknearrow}{arrows}{\mathrel}
871 \fdsy@DeclareSymbol{\varhooknwarrow}{arrows}{\mathrel}
872 \fdsy@DeclareAlias{\rhooknwarrow}{arrows}{\mathrel}
873 \fdsy@DeclareSymbol{\hookswarrow}{arrows}{\mathrel}
874 \fdsy@DeclareAlias{\hkswarrow}{arrows}{\mathrel}
875 \fdsy@DeclareAlias{\rhookswarrow}{arrows}{\mathrel}
876 \fdsy@DeclareSymbol{\varhooksearrow}{arrows}{\mathrel}
877 \fdsy@DeclareAlias{\rhooksearrow}{arrows}{\mathrel}
878 \fdsy@DeclareSymbol{\rightharpoonup}{arrows}{\mathrel}
879 \fdsy@DeclareSymbol{\upharpoonleft}{arrows}{\mathrel}
880 \fdsy@DeclareSymbol{\leftharpoontdown}{arrows}{\mathrel}
881 \fdsy@DeclareSymbol{\downharpoonright}{arrows}{\mathrel}
882 \fdsy@DeclareSymbol{\neharpoonnw}{arrows}{\mathrel}
883 \fdsy@DeclareSymbol{\nwharpoonsw}{arrows}{\mathrel}
884 \fdsy@DeclareSymbol{\swharpoonse}{arrows}{\mathrel}
885 \fdsy@DeclareSymbol{\seharpoonne}{arrows}{\mathrel}
886 \fdsy@DeclareSymbol{\rightharpoontdown}{arrows}{\mathrel}
887 \fdsy@DeclareSymbol{\upharpoonright}{arrows}{\mathrel}
888 \fdsy@DeclareAlias{\restriction}{arrows}{\mathrel}
889 \fdsy@DeclareSymbol{\leftharpoonup}{arrows}{\mathrel}
890 \fdsy@DeclareSymbol{\downharpoonleft}{arrows}{\mathrel}
891 \fdsy@DeclareSymbol{\neharpoonse}{arrows}{\mathrel}
892 \fdsy@DeclareSymbol{\nwharpoonne}{arrows}{\mathrel}
893 \fdsy@DeclareSymbol{\swharpoonnw}{arrows}{\mathrel}
894 \fdsy@DeclareSymbol{\seharpoonsw}{arrows}{\mathrel}
895 \fdsy@DeclareSymbol{\leftrightharpoonupdown}{arrows}{\mathrel}
896 \fdsy@DeclareSymbol{\updownharpoonleftright}{arrows}{\mathrel}
897 \fdsy@DeclareSymbol{\neswharpoonnwse}{arrows}{\mathrel}
898 \fdsy@DeclareSymbol{\nwseharpoonnesw}{arrows}{\mathrel}
899 \fdsy@DeclareSymbol{\leftrightharpoonupdown}{arrows}{\mathrel}
900 \fdsy@DeclareSymbol{\updownharpoonrightleft}{arrows}{\mathrel}
901 \fdsy@DeclareSymbol{\neswharpoonsenw}{arrows}{\mathrel}
902 \fdsy@DeclareSymbol{\nwseharpoonswne}{arrows}{\mathrel}
903 \fdsy@DeclareSymbol{\rightleftharpoons}{arrows}{\mathrel}

```

```

904 \fdsy@DeclareSymbol{\updownharpoons}{arrows}{\mathrel}
905 \fdsy@DeclareAlias{\updownharpoonsleftright}{arrows}{\mathrel}
906 \fdsy@DeclareSymbol{\neswharpoons}{arrows}{\mathrel}
907 \fdsy@DeclareSymbol{\senwharpoons}{arrows}{\mathrel}
908 \fdsy@DeclareSymbol{\leftrightharpoons}{arrows}{\mathrel}
909 \fdsy@DeclareSymbol{\downupharpoons}{arrows}{\mathrel}
910 \fdsy@DeclareAlias{\downupharpoonsleftright}{arrows}{\mathrel}
911 \fdsy@DeclareSymbol{\swneharpoons}{arrows}{\mathrel}
912 \fdsy@DeclareSymbol{\nwseharpoons}{arrows}{\mathrel}
913 \fdsy@DeclareSymbol{\rightbkarrow}{arrows}{\mathrel}
914 \fdsy@DeclareAlias{\dasharrow}{arrows}{\mathrel}
915 \fdsy@DeclareAlias{\dashrightarrow}{arrows}{\mathrel}
916 \fdsy@DeclareSymbol{\upbkarrow}{arrows}{\mathrel}
917 \fdsy@DeclareSymbol{\leftbkarrow}{arrows}{\mathrel}
918 \fdsy@DeclareAlias{\dashleftarrow}{arrows}{\mathrel}
919 \fdsy@DeclareSymbol{\downbkarrow}{arrows}{\mathrel}
920 \fdsy@DeclareSymbol{\nebkarrow}{arrows}{\mathrel}
921 \fdsy@DeclareSymbol{\nwbkarrow}{arrows}{\mathrel}
922 \fdsy@DeclareSymbol{\swbkarrow}{arrows}{\mathrel}
923 \fdsy@DeclareSymbol{\sebkarrow}{arrows}{\mathrel}
924 \fdsy@DeclareSymbol{\rightspoon}{arrows}{\mathrel}
925 \fdsy@DeclareAlias{\multimap}{arrows}{\mathrel}
926 \fdsy@DeclareSymbol{\upspoon}{arrows}{\mathrel}
927 \fdsy@DeclareAlias{\circmid}{arrows}{\mathrel}
928 \fdsy@DeclareSymbol{\leftspoon}{arrows}{\mathrel}
929 \fdsy@DeclareAlias{\multimapinv}{arrows}{\mathrel}
930 \fdsy@DeclareSymbol{\downspoon}{arrows}{\mathrel}
931 \fdsy@DeclareAlias{\midcir}{arrows}{\mathrel}
932 \fdsy@DeclareSymbol{\rightblackspoon}{arrows}{\mathrel}
933 \fdsy@DeclareSymbol{\upblackspoon}{arrows}{\mathrel}
934 \fdsy@DeclareSymbol{\leftblackspoon}{arrows}{\mathrel}
935 \fdsy@DeclareSymbol{\downblackspoon}{arrows}{\mathrel}
936 \fdsy@DeclareSymbol{\leftrightspoon}{arrows}{\mathrel}
937 \fdsy@DeclareAlias{\dualmap}{arrows}{\mathrel}
938 \fdsy@DeclareSymbol{\leftrightblackspoon}{arrows}{\mathrel}
939 \fdsy@DeclareSymbol{\blackwhitespoon}{arrows}{\mathrel}
940 \fdsy@DeclareAlias{\imageof}{arrows}{\mathrel}
941 \fdsy@DeclareSymbol{\whiteblackspoon}{arrows}{\mathrel}
942 \fdsy@DeclareAlias{\origof}{arrows}{\mathrel}
943 \fdsy@DeclareSymbol{\rightpitchfork}{arrows}{\mathrel}
944 \fdsy@DeclareSymbol{\uppitchfork}{arrows}{\mathrel}
945 \fdsy@DeclareAlias{\pitchfork}{arrows}{\mathrel}
946 \fdsy@DeclareSymbol{\leftpitchfork}{arrows}{\mathrel}
947 \fdsy@DeclareSymbol{\downpitchfork}{arrows}{\mathrel}
948 \fdsy@DeclareSymbol{\rightrightarrows}{arrows}{\mathrel}

```



```

949 \fdsy@DeclareSymbol{\upuparrows}{arrows}{\mathrel}
950 \fdsy@DeclareSymbol{\leftleftarrows}{arrows}{\mathrel}
951 \fdsy@DeclareSymbol{\downdownarrows}{arrows}{\mathrel}
952 \fdsy@DeclareSymbol{\nenearrows}{arrows}{\mathrel}
953 \fdsy@DeclareSymbol{\nwnwarrows}{arrows}{\mathrel}
954 \fdsy@DeclareSymbol{\swswarrows}{arrows}{\mathrel}
955 \fdsy@DeclareSymbol{\sesearrows}{arrows}{\mathrel}
956 \fdsy@DeclareSymbol{\rightleftarrows}{arrows}{\mathrel}
957 \fdsy@DeclareSymbol{\updownarrows}{arrows}{\mathrel}
958 \fdsy@DeclareSymbol{\neswarrows}{arrows}{\mathrel}
959 \fdsy@DeclareSymbol{\nwsearrows}{arrows}{\mathrel}
960 \fdsy@DeclareSymbol{\leftrightharpoons}{arrows}{\mathrel}
961 \fdsy@DeclareSymbol{\downuparrows}{arrows}{\mathrel}
962 \fdsy@DeclareSymbol{\swnearrows}{arrows}{\mathrel}
963 \fdsy@DeclareSymbol{\senwarrows}{arrows}{\mathrel}
964 \fdsy@DeclareSymbol{\rightwvearrow}{arrows}{\mathrel}
965 \fdsy@DeclareAlias{\leadsto}{arrows}{\mathrel}
966 \fdsy@DeclareAlias{\rightsquigarrow}{arrows}{\mathrel}
967 \fdsy@DeclareAlias{\rightcurvedarrow}{arrows}{\mathrel}
968 \fdsy@DeclareAlias{\rightlsquigarrow}{arrows}{\mathrel}
969 \fdsy@DeclareSymbol{\varupwvearrow}{arrows}{\mathrel}
970 \fdsy@DeclareAlias{\uplsquigarrow}{arrows}{\mathrel}
971 \fdsy@DeclareSymbol{\varleftwvearrow}{arrows}{\mathrel}
972 \fdsy@DeclareAlias{\leftlsquigarrow}{arrows}{\mathrel}
973 \fdsy@DeclareSymbol{\downwvearrow}{arrows}{\mathrel}
974 \fdsy@DeclareAlias{\downlsquigarrow}{arrows}{\mathrel}
975 \fdsy@DeclareSymbol{\varrightwvearrow}{arrows}{\mathrel}
976 \fdsy@DeclareAlias{\rightrsquigarrow}{arrows}{\mathrel}
977 \fdsy@DeclareSymbol{\upwvearrow}{arrows}{\mathrel}
978 \fdsy@DeclareAlias{\uprsquigarrow}{arrows}{\mathrel}
979 \fdsy@DeclareSymbol{\leftwvearrow}{arrows}{\mathrel}
980 \fdsy@DeclareAlias{\leftsquigarrow}{arrows}{\mathrel}
981 \fdsy@DeclareAlias{\leftcurvedarrow}{arrows}{\mathrel}
982 \fdsy@DeclareAlias{\leftrsquigarrow}{arrows}{\mathrel}
983 \fdsy@DeclareSymbol{\vardownwvearrow}{arrows}{\mathrel}
984 \fdsy@DeclareAlias{\downrsquigarrow}{arrows}{\mathrel}
985 \fdsy@DeclareSymbol{\leftrightwvearrow}{arrows}{\mathrel}
986 \fdsy@DeclareAlias{\leftrightsquigarrow}{arrows}{\mathrel}
987 \fdsy@DeclareSymbol{\updownwvearrow}{arrows}{\mathrel}
988 \fdsy@DeclareAlias{\updownsquigarrow}{arrows}{\mathrel}
989 \fdsy@DeclareSymbol{\varleftrightwvearrow}{arrows}{\mathrel}
990 \fdsy@DeclareAlias{\rightleftsquigarrow}{arrows}{\mathrel}
991 \fdsy@DeclareSymbol{\varupdownwvearrow}{arrows}{\mathrel}
992 \fdsy@DeclareAlias{\downupsquigarrow}{arrows}{\mathrel}
993 \fdsy@DeclareSymbol{\cwoverarcarrow}{arrows}{\mathrel}

```

```

994 \fdsy@DeclareAlias{\curvearrowright}{arrows}{\mathrel}
995 \fdsy@DeclareAlias{\rightlcurvedarrow}{arrows}{\mathrel}
996 \fdsy@DeclareSymbol{\cwleftarccarrow}{arrows}{\mathrel}
997 \fdsy@DeclareAlias{\uplcurvedarrow}{arrows}{\mathrel}
998 \fdsy@DeclareSymbol{\cwunderarccarrow}{arrows}{\mathrel}
999 \fdsy@DeclareAlias{\leftlcurvedarrow}{arrows}{\mathrel}
1000 \fdsy@DeclareSymbol{\cwrightarccarrow}{arrows}{\mathrel}
1001 \fdsy@DeclareAlias{\downlcurvedarrow}{arrows}{\mathrel}
1002 \fdsy@DeclareSymbol{\cwnwarccarrow}{arrows}{\mathrel}
1003 \fdsy@DeclareAlias{\rightupcurvedarrow}{arrows}{\mathrel}
1004 \fdsy@DeclareAlias{\nelcurvedarrow}{arrows}{\mathrel}
1005 \fdsy@DeclareSymbol{\cswwarccarrow}{arrows}{\mathrel}
1006 \fdsy@DeclareAlias{\upleftcurvedarrow}{arrows}{\mathrel}
1007 \fdsy@DeclareAlias{\nwlcurvedarrow}{arrows}{\mathrel}
1008 \fdsy@DeclareSymbol{\cwsearccarrow}{arrows}{\mathrel}
1009 \fdsy@DeclareAlias{\leftdowncurvedarrow}{arrows}{\mathrel}
1010 \fdsy@DeclareAlias{\swlcurvedarrow}{arrows}{\mathrel}
1011 \fdsy@DeclareSymbol{\cwnearccarrow}{arrows}{\mathrel}
1012 \fdsy@DeclareAlias{\downrightcurvedarrow}{arrows}{\mathrel}
1013 \fdsy@DeclareAlias{\selcurvedarrow}{arrows}{\mathrel}
1014 \fdsy@DeclareSymbol{\acwunderarccarrow}{arrows}{\mathrel}
1015 \fdsy@DeclareAlias{\rightrcurvedarrow}{arrows}{\mathrel}
1016 \fdsy@DeclareSymbol{\acwrightarccarrow}{arrows}{\mathrel}
1017 \fdsy@DeclareAlias{\uprcurvedarrow}{arrows}{\mathrel}
1018 \fdsy@DeclareSymbol{\acwoverarccarrow}{arrows}{\mathrel}
1019 \fdsy@DeclareAlias{\curvearrowleft}{arrows}{\mathrel}
1020 \fdsy@DeclareAlias{\lefttrcurvedarrow}{arrows}{\mathrel}
1021 \fdsy@DeclareSymbol{\acwleftarccarrow}{arrows}{\mathrel}
1022 \fdsy@DeclareAlias{\downrcurvedarrow}{arrows}{\mathrel}
1023 \fdsy@DeclareSymbol{\acwsearccarrow}{arrows}{\mathrel}
1024 \fdsy@DeclareAlias{\uprightcurvedarrow}{arrows}{\mathrel}
1025 \fdsy@DeclareAlias{\nercurvedarrow}{arrows}{\mathrel}
1026 \fdsy@DeclareSymbol{\acwnearccarrow}{arrows}{\mathrel}
1027 \fdsy@DeclareAlias{\leftupcurvedarrow}{arrows}{\mathrel}
1028 \fdsy@DeclareAlias{\nwrcurvedarrow}{arrows}{\mathrel}
1029 \fdsy@DeclareSymbol{\acwnwarccarrow}{arrows}{\mathrel}
1030 \fdsy@DeclareAlias{\downleftcurvedarrow}{arrows}{\mathrel}
1031 \fdsy@DeclareAlias{\swrcurvedarrow}{arrows}{\mathrel}
1032 \fdsy@DeclareSymbol{\acswwarccarrow}{arrows}{\mathrel}
1033 \fdsy@DeclareAlias{\rightdowncurvedarrow}{arrows}{\mathrel}
1034 \fdsy@DeclareAlias{\sercurvedarrow}{arrows}{\mathrel}
1035 \fdsy@DeclareSymbol{\bdoverarccarrow}{arrows}{\mathrel}
1036 \fdsy@DeclareAlias{\leftrightcurvedarrow}{arrows}{\mathrel}
1037 \fdsy@DeclareSymbol{\bdleftarccarrow}{arrows}{\mathrel}
1038 \fdsy@DeclareAlias{\updowncurvedarrow}{arrows}{\mathrel}

```

```

1039 \fdsy@DeclareSymbol{\bdunderarcarrow}{arrows}{\mathrel}
1040 \fdsy@DeclareAlias{\rightleftarrow}{arrows}{\mathrel}
1041 \fdsy@DeclareSymbol{\bdrighararrow}{arrows}{\mathrel}
1042 \fdsy@DeclareAlias{\downupcurvearrow}{arrows}{\mathrel}
1043 \fdsy@DeclareSymbol{\bdnwarcarrow}{arrows}{\mathrel}
1044 \fdsy@DeclareAlias{\neswcurvearrow}{arrows}{\mathrel}
1045 \fdsy@DeclareSymbol{\bdswarcarrow}{arrows}{\mathrel}
1046 \fdsy@DeclareAlias{\nwsecurvearrow}{arrows}{\mathrel}
1047 \fdsy@DeclareSymbol{\bdsearcarrow}{arrows}{\mathrel}
1048 \fdsy@DeclareAlias{\swnecurvearrow}{arrows}{\mathrel}
1049 \fdsy@DeclareSymbol{\bdnearcarrow}{arrows}{\mathrel}
1050 \fdsy@DeclareAlias{\senwcurvearrow}{arrows}{\mathrel}
1051 \fdsy@DeclareSymbol{\leftfootline}{arrows}{\mathrel}
1052 \fdsy@DeclareSymbol{\rightfootline}{arrows}{\mathrel}
1053 \fdsy@DeclareSymbol{\acwcirclearrowup}{arrows}{\mathrel}
1054 \fdsy@DeclareSymbol{\acwcirclearrowleft}{arrows}{\mathrel}
1055 \fdsy@DeclareAlias{\circlearrowleft}{arrows}{\mathrel}
1056 \fdsy@DeclareAlias{\acwopencirclearrow}{arrows}{\mathrel}
1057 \fdsy@DeclareSymbol{\acwcirclearrowdown}{arrows}{\mathrel}
1058 \fdsy@DeclareAlias{\acwgapcirclearrow}{arrows}{\mathrel}
1059 \fdsy@DeclareSymbol{\acwcirclearrowright}{arrows}{\mathrel}
1060 \fdsy@DeclareSymbol{\cwcirclearrowdown}{arrows}{\mathrel}
1061 \fdsy@DeclareAlias{\cwgapcirclearrow}{arrows}{\mathrel}
1062 \fdsy@DeclareSymbol{\cwcirclearrowright}{arrows}{\mathrel}
1063 \fdsy@DeclareAlias{\circlearrowright}{arrows}{\mathrel}
1064 \fdsy@DeclareAlias{\cwopencirclearrow}{arrows}{\mathrel}
1065 \fdsy@DeclareSymbol{\cwcirclearrowup}{arrows}{\mathrel}
1066 \fdsy@DeclareSymbol{\cwcirclearrowleft}{arrows}{\mathrel}
1067 \fdsy@DeclareSymbol{\Rrightarrow}{arrows}{\mathrel}
1068 \fdsy@DeclareSymbol{\Uparrow}{arrows}{\mathrel}
1069 \fdsy@DeclareSymbol{\Lleftarrow}{arrows}{\mathrel}
1070 \fdsy@DeclareSymbol{\Ddownarrow}{arrows}{\mathrel}
1071 \fdsy@DeclareSymbol{\longrightarrow}{arrows}{\mathrel}
1072 \fdsy@DeclareSymbol{\longleftarrow}{arrows}{\mathrel}
1073 \fdsy@DeclareSymbol{\Longrightarrow}{arrows}{\mathrel}
1074 \fdsy@DeclareSymbol{\Longleftarrow}{arrows}{\mathrel}
1075 \fdsy@DeclareSymbol{\longlefttrightarrow}{arrows}{\mathrel}
1076 \fdsy@DeclareSymbol{\Longlefttrightarrow}{arrows}{\mathrel}
1077 \fdsy@DeclareSymbol{\longmapsto}{arrows}{\mathrel}
1078 \fdsy@DeclareSymbol{\longmapsfrom}{arrows}{\mathrel}
1079 \fdsy@DeclareSymbol{\Longmapsto}{arrows}{\mathrel}
1080 \fdsy@DeclareSymbol{\Longmapsfrom}{arrows}{\mathrel}
1081 \fdsy@DeclareSymbol{\longrightwvearrow}{arrows}{\mathrel}
1082 \fdsy@DeclareAlias{\longleadsto}{arrows}{\mathrel}
1083 \fdsy@DeclareAlias{\longrightsquigarrow}{arrows}{\mathrel}

```

```

1084 \fdsy@DeclareSymbol{\longleftwvearrow}{arrows}{\mathrel}
1085 \fdsy@DeclareAlias{\longleftsquigarrow}{arrows}{\mathrel}
1086 \fdsy@DeclareSymbol{\longleftfootline}{arrows}{\mathrel}
1087 \fdsy@DeclareAlias{\vlongdash}{arrows}{\mathrel}
1088 \fdsy@DeclareSymbol{\longrightfootline}{arrows}{\mathrel}
1089 \fdsy@DeclareAlias{\longdashv}{arrows}{\mathrel}
1090 \fdsy@DeclareSymbol{\Lsh}{arrows}{\mathrel}
1091 \fdsy@DeclareSymbol{\Rsh}{arrows}{\mathrel}
1092 \fdsy@DeclareSymbol{\Ldsh}{arrows}{\mathrel}
1093 \fdsy@DeclareSymbol{\Rdsh}{arrows}{\mathrel}
1094 \fdsy@DeclareSymbol{\looparrowright}{arrows}{\mathrel}
1095 \fdsy@DeclareSymbol{\looparrowleft}{arrows}{\mathrel}
1096 \fdsy@setslot{224}
1097 \fdsy@DeclareSymbol{\rightvdash}{arrows}{\mathrel}
1098 \fdsy@DeclareAlias{\vdash}{arrows}{\mathrel}
1099 \fdsy@DeclareSymbol{\upvdash}{arrows}{\mathrel}
1100 \fdsy@DeclareAlias{\perp}{arrows}{\mathrel}
1101 \fdsy@DeclareAlias{\bot}{arrows}{\mathord}
1102 \fdsy@DeclareSymbol{\leftvdash}{arrows}{\mathrel}
1103 \fdsy@DeclareAlias{\dashv}{arrows}{\mathrel}
1104 \fdsy@DeclareSymbol{\downvdash}{arrows}{\mathrel}
1105 \fdsy@DeclareAlias{\top}{arrows}{\mathord}
1106 \fdsy@DeclareSymbol{\rightassert}{arrows}{\mathrel}
1107 \fdsy@DeclareAlias{\assert}{arrows}{\mathrel}
1108 \fdsy@DeclareAlias{\shortrighttack}{arrows}{\mathrel}
1109 \fdsy@DeclareSymbol{\upassert}{arrows}{\mathrel}
1110 \fdsy@DeclareAlias{\shortuptack}{arrows}{\mathrel}
1111 \fdsy@DeclareSymbol{\leftassert}{arrows}{\mathrel}
1112 \fdsy@DeclareAlias{\shortlefttack}{arrows}{\mathrel}
1113 \fdsy@DeclareSymbol{\downassert}{arrows}{\mathrel}
1114 \fdsy@DeclareAlias{\shortdowntack}{arrows}{\mathrel}
1115 \fdsy@DeclareSymbol{\rightvDash}{arrows}{\mathrel}
1116 \fdsy@DeclareAlias{\vDash}{arrows}{\mathrel}
1117 \fdsy@DeclareSymbol{\upvDash}{arrows}{\mathrel}
1118 \fdsy@DeclareAlias{\Vbar}{arrows}{\mathrel}
1119 \fdsy@DeclareSymbol{\leftvDash}{arrows}{\mathrel}
1120 \fdsy@DeclareAlias{\Dashv}{arrows}{\mathrel}
1121 \fdsy@DeclareSymbol{\downvDash}{arrows}{\mathrel}
1122 \fdsy@DeclareAlias{\barV}{arrows}{\mathrel}
1123 \fdsy@DeclareSymbol{\rightmodels}{arrows}{\mathrel}
1124 \fdsy@DeclareAlias{\models}{arrows}{\mathrel}
1125 \fdsy@DeclareSymbol{\upmodels}{arrows}{\mathrel}
1126 \fdsy@DeclareSymbol{\leftmodels}{arrows}{\mathrel}
1127 \fdsy@DeclareSymbol{\downmodels}{arrows}{\mathrel}
1128 \fdsy@DeclareSymbol{\rightVdash}{arrows}{\mathrel}

```

```

1129 \fdsy@DeclareAlias{\Vdash}{arrows}{\mathrel}
1130 \fdsy@DeclareSymbol{\upVdash}{arrows}{\mathrel}
1131 \fdsy@DeclareSymbol{\leftVdash}{arrows}{\mathrel}
1132 \fdsy@DeclareAlias{\dashV}{arrows}{\mathrel}
1133 \fdsy@DeclareSymbol{\downVdash}{arrows}{\mathrel}
1134 \fdsy@DeclareSymbol{\rightAssert}{arrows}{\mathrel}
1135 \fdsy@DeclareAlias{\Assert}{arrows}{\mathrel}
1136 \fdsy@DeclareSymbol{\upAssert}{arrows}{\mathrel}
1137 \fdsy@DeclareAlias{\vBar}{arrows}{\mathrel}
1138 \fdsy@DeclareSymbol{\leftAssert}{arrows}{\mathrel}
1139 \fdsy@DeclareSymbol{\downAssert}{arrows}{\mathrel}
1140 \fdsy@DeclareAlias{\Barv}{arrows}{\mathrel}
1141 \fdsy@DeclareSymbol{\rightVDash}{arrows}{\mathrel}
1142 \fdsy@DeclareAlias{\VDash}{arrows}{\mathrel}
1143 \fdsy@DeclareSymbol{\upVDash}{arrows}{\mathrel}
1144 \fdsy@DeclareSymbol{\leftVDash}{arrows}{\mathrel}
1145 \fdsy@DeclareAlias{\DashV}{arrows}{\mathrel}
1146 \fdsy@DeclareSymbol{\downVDash}{arrows}{\mathrel}
1147 \fdsy@DeclareSymbol{\Vvdash}{arrows}{\mathrel}
1148 \fdsy@DeclareSymbol{\dashVv}{arrows}{\mathrel}
1149 \fdsy@DeclareSymbol{\vDdash}{arrows}{\mathrel}
1150 \fdsy@DeclareSymbol{\Ddashv}{arrows}{\mathrel}
1151
1152 \DeclareRobustCommand{\relbar}{\mathrel{\smash{-}}}
1153 \DeclareRobustCommand{\Relbar}{\mathrel{=}}
1154 \let\joinrel\undefined
1155 \DeclareRobustCommand\joinrel{\mathrel{\mkern-4mu}}

FdSymbolD: stroked arrows
1156 \fdsy@setslot{0}
1157 \fdsy@DeclareSymbol{\nrightarrow}{narrows}{\mathrel}
1158 \fdsy@DeclareAlias{\nto}{narrows}{\mathrel}
1159 \fdsy@DeclareSymbol{\nuparrow}{narrows}{\mathrel}
1160 \fdsy@DeclareSymbol{\nleftarrow}{narrows}{\mathrel}
1161 \fdsy@DeclareAlias{\ngets}{narrows}{\mathrel}
1162 \fdsy@DeclareSymbol{\ndownarrow}{narrows}{\mathrel}
1163 \fdsy@DeclareSymbol{\nnearrow}{narrows}{\mathrel}
1164 \fdsy@DeclareSymbol{\nnwarrow}{narrows}{\mathrel}
1165 \fdsy@DeclareSymbol{\nswarrow}{narrows}{\mathrel}
1166 \fdsy@DeclareSymbol{\nsearrow}{narrows}{\mathrel}
1167 \fdsy@DeclareSymbol{\nRightarrow}{narrows}{\mathrel}
1168 \fdsy@DeclareSymbol{\nUparrow}{narrows}{\mathrel}
1169 \fdsy@DeclareSymbol{\nLeftarrow}{narrows}{\mathrel}
1170 \fdsy@DeclareSymbol{\nDownarrow}{narrows}{\mathrel}
1171 \fdsy@DeclareSymbol{\nNearrow}{narrows}{\mathrel}
1172 \fdsy@DeclareSymbol{\nNwarrow}{narrows}{\mathrel}

```

```

1173 \fdsy@DeclareSymbol{\nSwarrow}{narrows}{\mathrel}
1174 \fdsy@DeclareSymbol{\nSearrow}{narrows}{\mathrel}
1175 \fdsy@DeclareSymbol{\nleftrightharpoonright}{narrows}{\mathrel}
1176 \fdsy@DeclareSymbol{\nupdownarrow}{narrows}{\mathrel}
1177 \fdsy@DeclareSymbol{\nneswarrow}{narrows}{\mathrel}
1178 \fdsy@DeclareSymbol{\nnwsearrow}{narrows}{\mathrel}
1179 \fdsy@DeclareSymbol{\nLefttrightharpoonright}{narrows}{\mathrel}
1180 \fdsy@DeclareSymbol{\nUpdownarrow}{narrows}{\mathrel}
1181 \fdsy@DeclareSymbol{\nNeswarrow}{narrows}{\mathrel}
1182 \fdsy@DeclareSymbol{\nNwsearrow}{narrows}{\mathrel}
1183 \fdsy@DeclareSymbol{\ntwoheadrightarrow}{narrows}{\mathrel}
1184 \fdsy@DeclareSymbol{\ntwoheaduparrow}{narrows}{\mathrel}
1185 \fdsy@DeclareSymbol{\ntwoheadleftarrow}{narrows}{\mathrel}
1186 \fdsy@DeclareSymbol{\ntwoheaddownarrow}{narrows}{\mathrel}
1187 \fdsy@DeclareSymbol{\ntwoheadnearrow}{narrows}{\mathrel}
1188 \fdsy@DeclareSymbol{\ntwoheadnwarrow}{narrows}{\mathrel}
1189 \fdsy@DeclareSymbol{\ntwoheadswarrow}{narrows}{\mathrel}
1190 \fdsy@DeclareSymbol{\ntwoheadsearrow}{narrows}{\mathrel}
1191 \fdsy@DeclareSymbol{\nrightarrowtail}{narrows}{\mathrel}
1192 \fdsy@DeclareSymbol{\nuparrowtail}{narrows}{\mathrel}
1193 \fdsy@DeclareSymbol{\nleftarrowtail}{narrows}{\mathrel}
1194 \fdsy@DeclareSymbol{\ndownarrowtail}{narrows}{\mathrel}
1195 \fdsy@DeclareSymbol{\nnearrowtail}{narrows}{\mathrel}
1196 \fdsy@DeclareSymbol{\nnwarrowtail}{narrows}{\mathrel}
1197 \fdsy@DeclareSymbol{\nswarrowtail}{narrows}{\mathrel}
1198 \fdsy@DeclareSymbol{\nsearrowtail}{narrows}{\mathrel}
1199 \fdsy@DeclareSymbol{\nrightarrowtail}{narrows}{\mathrel}
1200 \fdsy@DeclareAlias{\nmapsto}{narrows}{\mathrel}
1201 \fdsy@DeclareSymbol{\nupmapsto}{narrows}{\mathrel}
1202 \fdsy@DeclareAlias{\nmapsto}{narrows}{\mathrel}
1203 \fdsy@DeclareSymbol{\nleftmapsto}{narrows}{\mathrel}
1204 \fdsy@DeclareAlias{\nmapsto}{narrows}{\mathrel}
1205 \fdsy@DeclareSymbol{\ndownmapsto}{narrows}{\mathrel}
1206 \fdsy@DeclareAlias{\nmapsto}{narrows}{\mathrel}
1207 \fdsy@DeclareSymbol{\nRightmapsto}{narrows}{\mathrel}
1208 \fdsy@DeclareAlias{\nMapsto}{narrows}{\mathrel}
1209 \fdsy@DeclareSymbol{\nUpmapsto}{narrows}{\mathrel}
1210 \fdsy@DeclareAlias{\nMapsto}{narrows}{\mathrel}
1211 \fdsy@DeclareSymbol{\nLeftmapsto}{narrows}{\mathrel}
1212 \fdsy@DeclareAlias{\nMapsto}{narrows}{\mathrel}
1213 \fdsy@DeclareSymbol{\nDownmapsto}{narrows}{\mathrel}
1214 \fdsy@DeclareAlias{\nMapsto}{narrows}{\mathrel}
1215 \fdsy@DeclareSymbol{\nhookrightarrow}{narrows}{\mathrel}
1216 \fdsy@DeclareSymbol{\nhookuparrow}{narrows}{\mathrel}
1217 \fdsy@DeclareSymbol{\nvarhookleftarrow}{narrows}{\mathrel}

```

```

1218 \fdsy@DeclareSymbol{\nvarhookdownarrow}{narrows}{\mathrel}
1219 \fdsy@DeclareSymbol{\nvarhooknearrow}{narrows}{\mathrel}
1220 \fdsy@DeclareSymbol{\nhooknwarrow}{narrows}{\mathrel}
1221 \fdsy@DeclareAlias{\nhknwarrow}{narrows}{\mathrel}
1222 \fdsy@DeclareSymbol{\nvarhookswarrow}{narrows}{\mathrel}
1223 \fdsy@DeclareSymbol{\nhooksearrow}{narrows}{\mathrel}
1224 \fdsy@DeclareAlias{\nhksearrow}{narrows}{\mathrel}
1225 \fdsy@DeclareSymbol{\nvarhookrightarrow}{narrows}{\mathrel}
1226 \fdsy@DeclareSymbol{\nvarhookuparrow}{narrows}{\mathrel}
1227 \fdsy@DeclareSymbol{\nhookleftarrow}{narrows}{\mathrel}
1228 \fdsy@DeclareSymbol{\nhookdownarrow}{narrows}{\mathrel}
1229 \fdsy@DeclareSymbol{\nhooknearrow}{narrows}{\mathrel}
1230 \fdsy@DeclareAlias{\nhknearrow}{narrows}{\mathrel}
1231 \fdsy@DeclareSymbol{\nvarhooknwarrow}{narrows}{\mathrel}
1232 \fdsy@DeclareSymbol{\nhookswarrow}{narrows}{\mathrel}
1233 \fdsy@DeclareAlias{\nhkswarrow}{narrows}{\mathrel}
1234 \fdsy@DeclareSymbol{\nvarhooksearrow}{narrows}{\mathrel}
1235 \fdsy@DeclareSymbol{\nrightharpoonup}{narrows}{\mathrel}
1236 \fdsy@DeclareSymbol{\nupharpoonleft}{narrows}{\mathrel}
1237 \fdsy@DeclareSymbol{\nleftharpoondown}{narrows}{\mathrel}
1238 \fdsy@DeclareSymbol{\ndownharpoonright}{narrows}{\mathrel}
1239 \fdsy@DeclareSymbol{\nneharpoonnw}{narrows}{\mathrel}
1240 \fdsy@DeclareSymbol{\nnwharpoonsw}{narrows}{\mathrel}
1241 \fdsy@DeclareSymbol{\nswharpoonse}{narrows}{\mathrel}
1242 \fdsy@DeclareSymbol{\nseharpoonne}{narrows}{\mathrel}
1243 \fdsy@DeclareSymbol{\nrightharpoondown}{narrows}{\mathrel}
1244 \fdsy@DeclareSymbol{\nupharpoonright}{narrows}{\mathrel}
1245 \fdsy@DeclareAlias{\nrestriction}{narrows}{\mathrel}
1246 \fdsy@DeclareSymbol{\nleftharpoonup}{narrows}{\mathrel}
1247 \fdsy@DeclareSymbol{\ndownharpoonleft}{narrows}{\mathrel}
1248 \fdsy@DeclareSymbol{\nneharpoonse}{narrows}{\mathrel}
1249 \fdsy@DeclareSymbol{\nnwharpoonne}{narrows}{\mathrel}
1250 \fdsy@DeclareSymbol{\nswharpoonnw}{narrows}{\mathrel}
1251 \fdsy@DeclareSymbol{\nseharpoonsw}{narrows}{\mathrel}
1252 \fdsy@DeclareSymbol{\nleftrightharpoonupdown}{narrows}{\mathrel}
1253 \fdsy@DeclareSymbol{\nupdownharpoonleftright}{narrows}{\mathrel}
1254 \fdsy@DeclareSymbol{\nneswharpoonnwse}{narrows}{\mathrel}
1255 \fdsy@DeclareSymbol{\nnwseharpoonnesw}{narrows}{\mathrel}
1256 \fdsy@DeclareSymbol{\nleftrightharpoondownup}{narrows}{\mathrel}
1257 \fdsy@DeclareSymbol{\nupdownharpoonrightleft}{narrows}{\mathrel}
1258 \fdsy@DeclareSymbol{\nneswharpoonsenw}{narrows}{\mathrel}
1259 \fdsy@DeclareSymbol{\nnwseharpoonswne}{narrows}{\mathrel}
1260 \fdsy@DeclareSymbol{\nrightharpoons}{narrows}{\mathrel}
1261 \fdsy@DeclareSymbol{\nupdownharpoons}{narrows}{\mathrel}
1262 \fdsy@DeclareAlias{\nupdownharpoonsleftright}{narrows}{\mathrel}

```

```

1263 \fdsy@DeclareSymbol{\nneswharpoons}{narrows}{\mathrel}
1264 \fdsy@DeclareSymbol{\nsenwharpoons}{narrows}{\mathrel}
1265 \fdsy@DeclareSymbol{\nlefttrightharpoons}{narrows}{\mathrel}
1266 \fdsy@DeclareSymbol{\ndownupharpoons}{narrows}{\mathrel}
1267 \fdsy@DeclareAlias{\ndownupharpoonsleftright}{narrows}{\mathrel}
1268 \fdsy@DeclareSymbol{\nswneharpoons}{narrows}{\mathrel}
1269 \fdsy@DeclareSymbol{\nnwseharpoons}{narrows}{\mathrel}
1270 \fdsy@DeclareSymbol{\nrighbtkarrow}{narrows}{\mathrel}
1271 \fdsy@DeclareAlias{\ndasharrow}{narrows}{\mathrel}
1272 \fdsy@DeclareAlias{\ndashrightarrow}{narrows}{\mathrel}
1273 \fdsy@DeclareSymbol{\nupbkarrow}{narrows}{\mathrel}
1274 \fdsy@DeclareSymbol{\nleftbkarrow}{narrows}{\mathrel}
1275 \fdsy@DeclareAlias{\ndashleftarrow}{narrows}{\mathrel}
1276 \fdsy@DeclareSymbol{\ndownbkarrow}{narrows}{\mathrel}
1277 \fdsy@DeclareSymbol{\nnebkarrow}{narrows}{\mathrel}
1278 \fdsy@DeclareSymbol{\nnwbkarrow}{narrows}{\mathrel}
1279 \fdsy@DeclareSymbol{\nswbkarrow}{narrows}{\mathrel}
1280 \fdsy@DeclareSymbol{\nsebkarrow}{narrows}{\mathrel}
1281 \fdsy@DeclareSymbol{\nrighthspoon}{narrows}{\mathrel}
1282 \fdsy@DeclareAlias{\nmultimap}{narrows}{\mathrel}
1283 \fdsy@DeclareSymbol{\nupspoon}{narrows}{\mathrel}
1284 \fdsy@DeclareAlias{\ncirmid}{narrows}{\mathrel}
1285 \fdsy@DeclareSymbol{\nleftspoon}{narrows}{\mathrel}
1286 \fdsy@DeclareAlias{\nmultimapinv}{narrows}{\mathrel}
1287 \fdsy@DeclareSymbol{\ndownspoon}{narrows}{\mathrel}
1288 \fdsy@DeclareAlias{\nmidcir}{narrows}{\mathrel}
1289 \fdsy@DeclareSymbol{\nrighblackspoon}{narrows}{\mathrel}
1290 \fdsy@DeclareSymbol{\nupblackspoon}{narrows}{\mathrel}
1291 \fdsy@DeclareSymbol{\nleftblackspoon}{narrows}{\mathrel}
1292 \fdsy@DeclareSymbol{\ndownblackspoon}{narrows}{\mathrel}
1293 \fdsy@DeclareSymbol{\nleftrightspoon}{narrows}{\mathrel}
1294 \fdsy@DeclareAlias{\ndualmap}{narrows}{\mathrel}
1295 \fdsy@DeclareSymbol{\nleftrightblackspoon}{narrows}{\mathrel}
1296 \fdsy@DeclareSymbol{\nblackwhitespoon}{narrows}{\mathrel}
1297 \fdsy@DeclareAlias{\nimageof}{narrows}{\mathrel}
1298 \fdsy@DeclareSymbol{\nwhiteblackspoon}{narrows}{\mathrel}
1299 \fdsy@DeclareAlias{\norigof}{narrows}{\mathrel}
1300 \fdsy@DeclareSymbol{\nrighpitchfork}{narrows}{\mathrel}
1301 \fdsy@DeclareSymbol{\nuppitchfork}{narrows}{\mathrel}
1302 \fdsy@DeclareAlias{\npitchfork}{narrows}{\mathrel}
1303 \fdsy@DeclareSymbol{\nleftpitchfork}{narrows}{\mathrel}
1304 \fdsy@DeclareSymbol{\ndownpitchfork}{narrows}{\mathrel}
1305 \fdsy@DeclareSymbol{\nrightrightarrows}{narrows}{\mathrel}
1306 \fdsy@DeclareSymbol{\nupuparrows}{narrows}{\mathrel}
1307 \fdsy@DeclareSymbol{\nleftleftarrows}{narrows}{\mathrel}

```



```

1308 \fdsy@DeclareSymbol{\ndowndownarrows}{narrows}{\mathrel}
1309 \fdsy@DeclareSymbol{\nnenearrows}{narrows}{\mathrel}
1310 \fdsy@DeclareSymbol{\nnwnwarrows}{narrows}{\mathrel}
1311 \fdsy@DeclareSymbol{\nswswarrows}{narrows}{\mathrel}
1312 \fdsy@DeclareSymbol{\nsesearrows}{narrows}{\mathrel}
1313 \fdsy@DeclareSymbol{\nrightrightarrows}{narrows}{\mathrel}
1314 \fdsy@DeclareSymbol{\nupdownarrows}{narrows}{\mathrel}
1315 \fdsy@DeclareSymbol{\nneswarrows}{narrows}{\mathrel}
1316 \fdsy@DeclareSymbol{\nnwsearrows}{narrows}{\mathrel}
1317 \fdsy@DeclareSymbol{\nleftrightarrows}{narrows}{\mathrel}
1318 \fdsy@DeclareSymbol{\ndownuparrows}{narrows}{\mathrel}
1319 \fdsy@DeclareSymbol{\nswnearrows}{narrows}{\mathrel}
1320 \fdsy@DeclareSymbol{\nsenwarrows}{narrows}{\mathrel}
1321 \fdsy@DeclareSymbol{\nrightharpoonright}{narrows}{\mathrel}
1322 \fdsy@DeclareAlias{\nleadsto}{narrows}{\mathrel}
1323 \fdsy@DeclareAlias{\nrightharpoonleft}{narrows}{\mathrel}
1324 \fdsy@DeclareAlias{\nrightharpoonright}{arrows}{\mathrel}
1325 \fdsy@DeclareAlias{\nrightharpoonleft}{narrows}{\mathrel}
1326 \fdsy@DeclareSymbol{\nvarupwavedarrow}{narrows}{\mathrel}
1327 \fdsy@DeclareAlias{\nuplsharpoonright}{narrows}{\mathrel}
1328 \fdsy@DeclareSymbol{\nvarleftwavedarrow}{narrows}{\mathrel}
1329 \fdsy@DeclareAlias{\nleftsharpoonright}{narrows}{\mathrel}
1330 \fdsy@DeclareSymbol{\ndownwavedarrow}{narrows}{\mathrel}
1331 \fdsy@DeclareAlias{\ndownlsharpoonright}{narrows}{\mathrel}
1332 \fdsy@DeclareSymbol{\nvarrightwavedarrow}{narrows}{\mathrel}
1333 \fdsy@DeclareAlias{\nrightrsharpoonright}{narrows}{\mathrel}
1334 \fdsy@DeclareSymbol{\nupwavedarrow}{narrows}{\mathrel}
1335 \fdsy@DeclareAlias{\nuprsharpoonright}{narrows}{\mathrel}
1336 \fdsy@DeclareSymbol{\nleftwavedarrow}{narrows}{\mathrel}
1337 \fdsy@DeclareAlias{\nleftsharpoonright}{narrows}{\mathrel}
1338 \fdsy@DeclareAlias{\nleftcurvedarrow}{arrows}{\mathrel}
1339 \fdsy@DeclareAlias{\nleftsharpoonright}{narrows}{\mathrel}
1340 \fdsy@DeclareSymbol{\nvardownwavedarrow}{narrows}{\mathrel}
1341 \fdsy@DeclareAlias{\ndownrsharpoonright}{narrows}{\mathrel}
1342 \fdsy@DeclareSymbol{\nleftrightharpoonright}{narrows}{\mathrel}
1343 \fdsy@DeclareAlias{\nleftrightharpoonright}{narrows}{\mathrel}
1344 \fdsy@DeclareSymbol{\nupdownwavedarrow}{narrows}{\mathrel}
1345 \fdsy@DeclareAlias{\nupdownsharpoonright}{narrows}{\mathrel}
1346 \fdsy@DeclareSymbol{\nvarleftrightharpoonright}{narrows}{\mathrel}
1347 \fdsy@DeclareAlias{\nrightrightsharpoonright}{narrows}{\mathrel}
1348 \fdsy@DeclareSymbol{\nvarupdownwavedarrow}{narrows}{\mathrel}
1349 \fdsy@DeclareAlias{\ndownupsharpoonright}{narrows}{\mathrel}
1350 \fdsy@DeclareSymbol{\ncwoverarcarrow}{narrows}{\mathrel}
1351 \fdsy@DeclareAlias{\ncurvecarrowright}{narrows}{\mathrel}
1352 \fdsy@DeclareAlias{\nrightharpoonright}{narrows}{\mathrel}

```

```

1353 \fdsy@DeclareSymbol{\ncwleftarcarrow}{narrows}{\mathrel}
1354 \fdsy@DeclareAlias{\nuplcurvearrow}{narrows}{\mathrel}
1355 \fdsy@DeclareSymbol{\ncwunderarcarrow}{narrows}{\mathrel}
1356 \fdsy@DeclareAlias{\nleftlcurvearrow}{narrows}{\mathrel}
1357 \fdsy@DeclareSymbol{\ncwrightarcarrow}{narrows}{\mathrel}
1358 \fdsy@DeclareAlias{\ndownlcurvearrow}{narrows}{\mathrel}
1359 \fdsy@DeclareSymbol{\ncwnwarcarrow}{narrows}{\mathrel}
1360 \fdsy@DeclareAlias{\nrighupcurvedarrow}{narrows}{\mathrel}
1361 \fdsy@DeclareAlias{\nnelcurvearrow}{narrows}{\mathrel}
1362 \fdsy@DeclareSymbol{\ncswarcarrow}{narrows}{\mathrel}
1363 \fdsy@DeclareAlias{\nupleftcurvedarrow}{narrows}{\mathrel}
1364 \fdsy@DeclareAlias{\nnwlcurvearrow}{narrows}{\mathrel}
1365 \fdsy@DeclareSymbol{\ncwsearcarrow}{narrows}{\mathrel}
1366 \fdsy@DeclareAlias{\nleftdowncurvedarrow}{narrows}{\mathrel}
1367 \fdsy@DeclareAlias{\nswlcurvearrow}{narrows}{\mathrel}
1368 \fdsy@DeclareSymbol{\ncwnearcarrow}{narrows}{\mathrel}
1369 \fdsy@DeclareAlias{\ndownrightcurvedarrow}{narrows}{\mathrel}
1370 \fdsy@DeclareAlias{\nselcurvearrow}{narrows}{\mathrel}
1371 \fdsy@DeclareSymbol{\nacwunderarcarrow}{narrows}{\mathrel}
1372 \fdsy@DeclareAlias{\nrightrcurvearrow}{narrows}{\mathrel}
1373 \fdsy@DeclareSymbol{\nacwrightarcarrow}{narrows}{\mathrel}
1374 \fdsy@DeclareAlias{\nuprcurvearrow}{narrows}{\mathrel}
1375 \fdsy@DeclareSymbol{\nacwoverarcarrow}{narrows}{\mathrel}
1376 \fdsy@DeclareAlias{\ncurvearrowleft}{narrows}{\mathrel}
1377 \fdsy@DeclareAlias{\nlefttrcurvearrow}{narrows}{\mathrel}
1378 \fdsy@DeclareSymbol{\nacwleftarcarrow}{narrows}{\mathrel}
1379 \fdsy@DeclareAlias{\ndownrcurvearrow}{narrows}{\mathrel}
1380 \fdsy@DeclareSymbol{\nacwsearcarrow}{narrows}{\mathrel}
1381 \fdsy@DeclareAlias{\nuprightcurvearrow}{narrows}{\mathrel}
1382 \fdsy@DeclareAlias{\nnercurvearrow}{narrows}{\mathrel}
1383 \fdsy@DeclareSymbol{\nacwnearcarrow}{narrows}{\mathrel}
1384 \fdsy@DeclareAlias{\nleftupcurvedarrow}{narrows}{\mathrel}
1385 \fdsy@DeclareAlias{\nnwrcurvearrow}{narrows}{\mathrel}
1386 \fdsy@DeclareSymbol{\nacwnwarcarrow}{narrows}{\mathrel}
1387 \fdsy@DeclareAlias{\ndownleftcurvedarrow}{narrows}{\mathrel}
1388 \fdsy@DeclareAlias{\nswrcurvearrow}{narrows}{\mathrel}
1389 \fdsy@DeclareSymbol{\nacswarcarrow}{narrows}{\mathrel}
1390 \fdsy@DeclareAlias{\nrighdowncurvedarrow}{narrows}{\mathrel}
1391 \fdsy@DeclareAlias{\nsercurvearrow}{narrows}{\mathrel}
1392 \fdsy@DeclareSymbol{\nbdoverarcarrow}{narrows}{\mathrel}
1393 \fdsy@DeclareAlias{\nleftrighcurvearrow}{narrows}{\mathrel}
1394 \fdsy@DeclareSymbol{\nbdleftarcarrow}{narrows}{\mathrel}
1395 \fdsy@DeclareAlias{\nupdowncurvearrow}{narrows}{\mathrel}
1396 \fdsy@DeclareSymbol{\nbdunderarcarrow}{narrows}{\mathrel}
1397 \fdsy@DeclareAlias{\nrighleftcurvearrow}{narrows}{\mathrel}

```

```

1398 \fdsy@DeclareSymbol{\nbdrightarcarrow}{narrows}{\mathrel}
1399 \fdsy@DeclareAlias{\ndownupcurvearrow}{narrows}{\mathrel}
1400 \fdsy@DeclareSymbol{\nbdnwarcarrow}{narrows}{\mathrel}
1401 \fdsy@DeclareAlias{\nneswcurvearrow}{narrows}{\mathrel}
1402 \fdsy@DeclareSymbol{\nbdswarcarrow}{narrows}{\mathrel}
1403 \fdsy@DeclareAlias{\nnwsecurvearrow}{narrows}{\mathrel}
1404 \fdsy@DeclareSymbol{\nbdsearcarrow}{narrows}{\mathrel}
1405 \fdsy@DeclareAlias{\nswnecurvearrow}{narrows}{\mathrel}
1406 \fdsy@DeclareSymbol{\nbdnearcarrow}{narrows}{\mathrel}
1407 \fdsy@DeclareAlias{\nsenwcurvearrow}{narrows}{\mathrel}
1408 \fdsy@DeclareSymbol{\nleftfootline}{narrows}{\mathrel}
1409 \fdsy@DeclareSymbol{\nrightfootline}{narrows}{\mathrel}
1410 \fdsy@DeclareSymbol{\nacwcirculararrowup}{narrows}{\mathrel}
1411 \fdsy@DeclareSymbol{\nacwcirculararrowleft}{narrows}{\mathrel}
1412 \fdsy@DeclareAlias{\ncirculararrowleft}{narrows}{\mathrel}
1413 \fdsy@DeclareAlias{\nacwopencirculararrow}{narrows}{\mathrel}
1414 \fdsy@DeclareSymbol{\nacwcirculararrowdown}{narrows}{\mathrel}
1415 \fdsy@DeclareAlias{\nacwgapcirculararrow}{narrows}{\mathrel}
1416 \fdsy@DeclareSymbol{\nacwcirculararrowright}{narrows}{\mathrel}
1417 \fdsy@DeclareSymbol{\ncwcirculararrowdown}{narrows}{\mathrel}
1418 \fdsy@DeclareAlias{\ncwgapcirculararrow}{narrows}{\mathrel}
1419 \fdsy@DeclareSymbol{\ncwcirculararrowright}{narrows}{\mathrel}
1420 \fdsy@DeclareAlias{\ncirculararrowright}{narrows}{\mathrel}
1421 \fdsy@DeclareAlias{\ncwopencirculararrow}{narrows}{\mathrel}
1422 \fdsy@DeclareSymbol{\ncwcirculararrowup}{narrows}{\mathrel}
1423 \fdsy@DeclareSymbol{\ncwcirculararrowleft}{narrows}{\mathrel}
1424 \fdsy@DeclareSymbol{\nRrightarrow}{narrows}{\mathrel}
1425 \fdsy@DeclareSymbol{\nUparrow}{narrows}{\mathrel}
1426 \fdsy@DeclareSymbol{\nLleftarrow}{narrows}{\mathrel}
1427 \fdsy@DeclareSymbol{\nDdownarrow}{narrows}{\mathrel}
1428 \fdsy@DeclareSymbol{\nlongrightarrow}{narrows}{\mathrel}
1429 \fdsy@DeclareSymbol{\nlongleftarrow}{narrows}{\mathrel}
1430 \fdsy@DeclareSymbol{\nLongrightarrow}{narrows}{\mathrel}
1431 \fdsy@DeclareSymbol{\nLongleftarrow}{narrows}{\mathrel}
1432 \fdsy@DeclareSymbol{\nlongleftrightharpoonrightarrow}{narrows}{\mathrel}
1433 \fdsy@DeclareSymbol{\nLongleftrightharpoonrightarrow}{narrows}{\mathrel}
1434 \fdsy@DeclareSymbol{\nlongmapsto}{narrows}{\mathrel}
1435 \fdsy@DeclareSymbol{\nlongmapsfrom}{narrows}{\mathrel}
1436 \fdsy@DeclareSymbol{\nLongmapsto}{narrows}{\mathrel}
1437 \fdsy@DeclareSymbol{\nLongmapsfrom}{narrows}{\mathrel}
1438 \fdsy@DeclareSymbol{\nlongrightwavedarrow}{narrows}{\mathrel}
1439 \fdsy@DeclareAlias{\nlongleadsto}{narrows}{\mathrel}
1440 \fdsy@DeclareAlias{\nlongrightsquigarrow}{narrows}{\mathrel}
1441 \fdsy@DeclareSymbol{\nlongleftwavedarrow}{narrows}{\mathrel}
1442 \fdsy@DeclareAlias{\nlongleftsquigarrow}{narrows}{\mathrel}

```

```

1443 \fdsy@DeclareSymbol{\nlongleftfootline}{narrows}{\mathrel}
1444 \fdsy@DeclareAlias{\nvlongdash}{narrows}{\mathrel}
1445 \fdsy@DeclareSymbol{\nlongrightfootline}{narrows}{\mathrel}
1446 \fdsy@DeclareAlias{\nlongdashv}{narrows}{\mathrel}
1447 \fdsy@setslot{224}
1448 \fdsy@DeclareSymbol{\nrighvdash}{narrows}{\mathrel}
1449 \fdsy@DeclareAlias{\nvDash}{narrows}{\mathrel}
1450 \fdsy@DeclareSymbol{\nupvdash}{narrows}{\mathrel}
1451 \fdsy@DeclareAlias{\nperp}{narrows}{\mathrel}
1452 \fdsy@DeclareSymbol{\nleftvdash}{narrows}{\mathrel}
1453 \fdsy@DeclareAlias{\ndashv}{narrows}{\mathrel}
1454 \fdsy@DeclareSymbol{\ndownvdash}{narrows}{\mathrel}
1455 \fdsy@DeclareSymbol{\nrighthassert}{narrows}{\mathrel}
1456 \fdsy@DeclareAlias{\nassert}{narrows}{\mathrel}
1457 \fdsy@DeclareAlias{\nshorttright tack}{narrows}{\mathrel}
1458 \fdsy@DeclareSymbol{\nupassert}{narrows}{\mathrel}
1459 \fdsy@DeclareAlias{\nshortuptack}{narrows}{\mathrel}
1460 \fdsy@DeclareSymbol{\nleftassert}{narrows}{\mathrel}
1461 \fdsy@DeclareAlias{\nshortlefttack}{narrows}{\mathrel}
1462 \fdsy@DeclareSymbol{\ndownassert}{narrows}{\mathrel}
1463 \fdsy@DeclareAlias{\nshortdowntack}{narrows}{\mathrel}
1464 \fdsy@DeclareSymbol{\nrighvDash}{narrows}{\mathrel}
1465 \fdsy@DeclareAlias{\nvDash}{narrows}{\mathrel}
1466 \fdsy@DeclareSymbol{\nupvDash}{narrows}{\mathrel}
1467 \fdsy@DeclareAlias{\nVbar}{narrows}{\mathrel}
1468 \fdsy@DeclareSymbol{\nleftvDash}{narrows}{\mathrel}
1469 \fdsy@DeclareAlias{\nDashv}{narrows}{\mathrel}
1470 \fdsy@DeclareSymbol{\ndownvDash}{narrows}{\mathrel}
1471 \fdsy@DeclareAlias{\nbarV}{narrows}{\mathrel}
1472 \fdsy@DeclareSymbol{\nrighmodels}{narrows}{\mathrel}
1473 \fdsy@DeclareAlias{\nmodels}{narrows}{\mathrel}
1474 \fdsy@DeclareSymbol{\nupmodels}{narrows}{\mathrel}
1475 \fdsy@DeclareSymbol{\nleftmodels}{narrows}{\mathrel}
1476 \fdsy@DeclareSymbol{\ndownmodels}{narrows}{\mathrel}
1477 \fdsy@DeclareSymbol{\nrighVdash}{narrows}{\mathrel}
1478 \fdsy@DeclareAlias{\nVdash}{narrows}{\mathrel}
1479 \fdsy@DeclareSymbol{\nupVdash}{narrows}{\mathrel}
1480 \fdsy@DeclareSymbol{\nleftVdash}{narrows}{\mathrel}
1481 \fdsy@DeclareAlias{\ndashV}{narrows}{\mathrel}
1482 \fdsy@DeclareSymbol{\ndownVdash}{narrows}{\mathrel}
1483 \fdsy@DeclareSymbol{\nrighthAssert}{narrows}{\mathrel}
1484 \fdsy@DeclareAlias{\nAssert}{narrows}{\mathrel}
1485 \fdsy@DeclareSymbol{\nupAssert}{narrows}{\mathrel}
1486 \fdsy@DeclareAlias{\nvBar}{narrows}{\mathrel}
1487 \fdsy@DeclareSymbol{\nleftAssert}{narrows}{\mathrel}

```

```

1488 \fdsy@DeclareSymbol{\ndownAssert}{narrows}{\mathrel}
1489 \fdsy@DeclareAlias{\nBarv}{narrows}{\mathrel}
1490 \fdsy@DeclareSymbol{\nrightVDash}{narrows}{\mathrel}
1491 \fdsy@DeclareAlias{\nVDash}{narrows}{\mathrel}
1492 \fdsy@DeclareSymbol{\nupVDash}{narrows}{\mathrel}
1493 \fdsy@DeclareSymbol{\nleftVDash}{narrows}{\mathrel}
1494 \fdsy@DeclareAlias{\nDashV}{narrows}{\mathrel}
1495 \fdsy@DeclareSymbol{\ndownVDash}{narrows}{\mathrel}
1496 \fdsy@DeclareSymbol{\nVvdash}{narrows}{\mathrel}
1497 \fdsy@DeclareSymbol{\ndashVv}{narrows}{\mathrel}
1498 \fdsy@DeclareSymbol{\nvDdash}{narrows}{\mathrel}
1499 \fdsy@DeclareSymbol{\nDdashv}{narrows}{\mathrel}

```

FdSymbolE: large operators

```

1500 \fdsy@setslot{0}
1501 \fdsy@DeclareSymbol{\tbigplus}{largesymbols}{\mathop}
1502 \fdsy@DeclareSymbol{\dbigplus}{largesymbols}{\mathop}
1503 \fdsy@DeclareSymbol{\tbigtimes}{largesymbols}{\mathop}
1504 \fdsy@DeclareSymbol{\dbigtimes}{largesymbols}{\mathop}
1505 \fdsy@DeclareSymbol{\tbigwedge}{largesymbols}{\mathop}
1506 \fdsy@DeclareSymbol{\dbigwedge}{largesymbols}{\mathop}
1507 \fdsy@DeclareSymbol{\tbigvee}{largesymbols}{\mathop}
1508 \fdsy@DeclareSymbol{\dbigvee}{largesymbols}{\mathop}
1509 \fdsy@DeclareSymbol{\tbigwedgedot}{largesymbols}{\mathop}
1510 \fdsy@DeclareSymbol{\dbigwedgedot}{largesymbols}{\mathop}
1511 \fdsy@DeclareSymbol{\tbigveedot}{largesymbols}{\mathop}
1512 \fdsy@DeclareSymbol{\dbigveedot}{largesymbols}{\mathop}
1513 \fdsy@DeclareSymbol{\tbigdoublewedge}{largesymbols}{\mathop}
1514 \fdsy@DeclareAlias{\tconjquant}{largesymbols}{\mathop}
1515 \fdsy@DeclareSymbol{\dbigdoublewedge}{largesymbols}{\mathop}
1516 \fdsy@DeclareAlias{\dconjquant}{largesymbols}{\mathop}
1517 \fdsy@DeclareSymbol{\tbigdoublevee}{largesymbols}{\mathop}
1518 \fdsy@DeclareAlias{\tdisjquant}{largesymbols}{\mathop}
1519 \fdsy@DeclareSymbol{\dbigdoublevee}{largesymbols}{\mathop}
1520 \fdsy@DeclareAlias{\ddisjquant}{largesymbols}{\mathop}
1521 \fdsy@DeclareSymbol{\tbigcurlywedge}{largesymbols}{\mathop}
1522 \fdsy@DeclareSymbol{\dbigcurlywedge}{largesymbols}{\mathop}
1523 \fdsy@DeclareSymbol{\tbigcurlyvee}{largesymbols}{\mathop}
1524 \fdsy@DeclareSymbol{\dbigcurlyvee}{largesymbols}{\mathop}
1525 \fdsy@DeclareSymbol{\tbigcap}{largesymbols}{\mathop}
1526 \fdsy@DeclareSymbol{\dbigcap}{largesymbols}{\mathop}
1527 \fdsy@DeclareSymbol{\tbigcup}{largesymbols}{\mathop}
1528 \fdsy@DeclareSymbol{\dbigcup}{largesymbols}{\mathop}
1529 \fdsy@DeclareSymbol{\tbigcapdot}{largesymbols}{\mathop}
1530 \fdsy@DeclareSymbol{\dbigcapdot}{largesymbols}{\mathop}
1531 \fdsy@DeclareSymbol{\tbigcupdot}{largesymbols}{\mathop}

```

```

1532 \fdsy@DeclareSymbol{\dbigcupdot}{largesymbols}{\mathop}
1533 \fdsy@DeclareSymbol{\tbigcapplus}{largesymbols}{\mathop}
1534 \fdsy@DeclareSymbol{\dbigcapplus}{largesymbols}{\mathop}
1535 \fdsy@DeclareSymbol{\tbigcupplus}{largesymbols}{\mathop}
1536 \fdsy@DeclareAlias{\tbiguplus}{largesymbols}{\mathop}
1537 \fdsy@DeclareSymbol{\dbigcupplus}{largesymbols}{\mathop}
1538 \fdsy@DeclareAlias{\dbiguplus}{largesymbols}{\mathop}
1539 \fdsy@DeclareSymbol{\tbigsqcap}{largesymbols}{\mathop}
1540 \fdsy@DeclareSymbol{\dbigsqcap}{largesymbols}{\mathop}
1541 \fdsy@DeclareSymbol{\tbigsqcup}{largesymbols}{\mathop}
1542 \fdsy@DeclareSymbol{\dbigsqcup}{largesymbols}{\mathop}
1543 \fdsy@DeclareSymbol{\tbigsqcapdot}{largesymbols}{\mathop}
1544 \fdsy@DeclareSymbol{\dbigsqcapdot}{largesymbols}{\mathop}
1545 \fdsy@DeclareSymbol{\tbigsqcupdot}{largesymbols}{\mathop}
1546 \fdsy@DeclareSymbol{\dbigsqcupdot}{largesymbols}{\mathop}
1547 \fdsy@DeclareSymbol{\tbigsqcapplus}{largesymbols}{\mathop}
1548 \fdsy@DeclareSymbol{\dbigsqcapplus}{largesymbols}{\mathop}
1549 \fdsy@DeclareSymbol{\tbigsqcupplus}{largesymbols}{\mathop}
1550 \fdsy@DeclareSymbol{\dbigsqcupplus}{largesymbols}{\mathop}
1551 \fdsy@DeclareSymbol{\tbigoplus}{largesymbols}{\mathop}
1552 \fdsy@DeclareSymbol{\dbigoplus}{largesymbols}{\mathop}
1553 \fdsy@DeclareSymbol{\tbigotimes}{largesymbols}{\mathop}
1554 \fdsy@DeclareSymbol{\dbigotimes}{largesymbols}{\mathop}
1555 \fdsy@DeclareSymbol{\tbigodot}{largesymbols}{\mathop}
1556 \fdsy@DeclareSymbol{\dbigodot}{largesymbols}{\mathop}
1557 \fdsy@DeclareSymbol{\tbigooast}{largesymbols}{\mathop}
1558 \fdsy@DeclareSymbol{\dbigoast}{largesymbols}{\mathop}
1559 \fdsy@DeclareSymbol{\tprod}{largesymbols}{\mathop}
1560 \fdsy@DeclareSymbol{\dprod}{largesymbols}{\mathop}
1561 \fdsy@DeclareSymbol{\tcoproduct}{largesymbols}{\mathop}
1562 \fdsy@DeclareSymbol{\dcoproduct}{largesymbols}{\mathop}
1563 \fdsy@DeclareSymbol{\tsum}{largesymbols}{\mathop}
1564 \fdsy@DeclareSymbol{\dsum}{largesymbols}{\mathop}
1565 \fdsy@DeclareSymbol{\tosum}{largesymbols}{\mathop}
1566 \fdsy@DeclareAlias{\tmodtwosum}{largesymbols}{\mathop}
1567 \fdsy@DeclareSymbol{\dosum}{largesymbols}{\mathop}
1568 \fdsy@DeclareAlias{\dmodtwosum}{largesymbols}{\mathop}
1569 \fdsy@DeclareSymbol{\tint}{largesymbols}{\mathop}
1570 \fdsy@DeclareSymbol{\dint}{largesymbols}{\mathop}
1571 \fdsy@DeclareSymbol{\ttiint}{largesymbols}{\mathop}
1572 \fdsy@DeclareSymbol{\diint}{largesymbols}{\mathop}
1573 \fdsy@DeclareSymbol{\tiiint}{largesymbols}{\mathop}
1574 \fdsy@DeclareSymbol{\diiint}{largesymbols}{\mathop}
1575 \fdsy@DeclareSymbol{\tiiiint}{largesymbols}{\mathop}
1576 \fdsy@DeclareSymbol{\diiiint}{largesymbols}{\mathop}

```

```

1577 \fdsy@DeclareSymbol{\tidotsint}{largesymbols}{\mathop}
1578 \fdsy@DeclareAlias{\tdotsint}{largesymbols}{\mathop}
1579 \fdsy@DeclareSymbol{\didotsint}{largesymbols}{\mathop}
1580 \fdsy@DeclareAlias{\ddotsint}{largesymbols}{\mathop}
1581 \fdsy@DeclareSymbol{\tlandupint}{largesymbols}{\mathop}
1582 \fdsy@DeclareAlias{\tintclockwise}{largesymbols}{\mathop}
1583 \fdsy@DeclareSymbol{\dlandupint}{largesymbols}{\mathop}
1584 \fdsy@DeclareAlias{\dintclockwise}{largesymbols}{\mathop}
1585 \fdsy@DeclareSymbol{\tlanddownint}{largesymbols}{\mathop}
1586 \fdsy@DeclareAlias{\tawint}{largesymbols}{\mathop}
1587 \fdsy@DeclareAlias{\tintctrcclockwise}{largesymbols}{\mathop}
1588 \fdsy@DeclareSymbol{\dlanddownint}{largesymbols}{\mathop}
1589 \fdsy@DeclareAlias{\dawint}{largesymbols}{\mathop}
1590 \fdsy@DeclareAlias{\dintctrcclockwise}{largesymbols}{\mathop}
1591 \fdsy@DeclareSymbol{\tintbar}{largesymbols}{\mathop}
1592 \fdsy@DeclareSymbol{\dintbar}{largesymbols}{\mathop}
1593 \fdsy@DeclareSymbol{\tintBar}{largesymbols}{\mathop}
1594 \fdsy@DeclareSymbol{\dintBar}{largesymbols}{\mathop}
1595 \fdsy@DeclareSymbol{\tfint}{largesymbols}{\mathop}
1596 \fdsy@DeclareSymbol{\dfint}{largesymbols}{\mathop}
1597 \fdsy@DeclareSymbol{\toint}{largesymbols}{\mathop}
1598 \fdsy@DeclareSymbol{\doint}{largesymbols}{\mathop}
1599 \fdsy@DeclareSymbol{\toiint}{largesymbols}{\mathop}
1600 \fdsy@DeclareSymbol{\doiint}{largesymbols}{\mathop}
1601 \fdsy@DeclareSymbol{\toiiint}{largesymbols}{\mathop}
1602 \fdsy@DeclareSymbol{\doiiint}{largesymbols}{\mathop}
1603 \fdsy@DeclareSymbol{\trcircularrightint}{largesymbols}{\mathop}
1604 \fdsy@DeclareAlias{\tointctrcclockwise}{largesymbols}{\mathop}
1605 \fdsy@DeclareSymbol{\drcircularrightint}{largesymbols}{\mathop}
1606 \fdsy@DeclareAlias{\dointctrcclockwise}{largesymbols}{\mathop}
1607 \fdsy@DeclareSymbol{\tlcircularrightint}{largesymbols}{\mathop}
1608 \fdsy@DeclareAlias{\tvarointclockwise}{largesymbols}{\mathop}
1609 \fdsy@DeclareSymbol{\dlcircularrightint}{largesymbols}{\mathop}
1610 \fdsy@DeclareAlias{\dvarointclockwise}{largesymbols}{\mathop}
1611 \fdsy@DeclareSymbol{\trcircleleftint}{largesymbols}{\mathop}
1612 \fdsy@DeclareAlias{\tvarointctrcclockwise}{largesymbols}{\mathop}
1613 \fdsy@DeclareSymbol{\drcircleleftint}{largesymbols}{\mathop}
1614 \fdsy@DeclareAlias{\dvarointctrcclockwise}{largesymbols}{\mathop}
1615 \fdsy@DeclareSymbol{\tlcircleleftint}{largesymbols}{\mathop}
1616 \fdsy@DeclareAlias{\tointclockwise}{largesymbols}{\mathop}
1617 \fdsy@DeclareSymbol{\dlcircleleftint}{largesymbols}{\mathop}
1618 \fdsy@DeclareAlias{\dointclockwise}{largesymbols}{\mathop}
1619 \fdsy@DeclareSymbol{\tsumint}{largesymbols}{\mathop}
1620 \fdsy@DeclareSymbol{\dsumint}{largesymbols}{\mathop}
1621 \let\intop\tint

```

```

1622 \let\ointop\toint
1623
1624 \fdsy@DeclareOperator{\bigplus}{\dbigplus}{\tbigplus}
1625 \fdsy@DeclareOperator{\bigtimes}{\dbigtimes}{\tbigtimes}
1626 \fdsy@DeclareOperator{\bigwedge}{\dbigwedge}{\tbigwedge}
1627 \fdsy@DeclareOperator{\bigvee}{\dbigvee}{\tbigvee}
1628 \fdsy@DeclareOperator{\bigwedgedot}{\dbigwedgedot}{\tbigwedgedot}
1629 \fdsy@DeclareOperator{\bigveedot}{\dbigveedot}{\tbigveedot}
1630 \fdsy@DeclareOperator{\bigdoublewedge}{\dbigdoublewedge}{\tbigdoublewedge}
1631 \fdsy@DeclareOperator{\conjquant}{\dconjquant}{\tconjquant}
1632 \fdsy@DeclareOperator{\bigdoublevee}{\dbigdoublevee}{\tbigdoublevee}
1633 \fdsy@DeclareOperator{\disjquant}{\ddisjquant}{\tdisjquant}
1634 \fdsy@DeclareOperator{\bigcurlywedge}{\dbigcurlywedge}{\tbigcurlywedge}
1635 \fdsy@DeclareOperator{\bigcurlyvee}{\dbigcurlyvee}{\tbigcurlyvee}
1636 \fdsy@DeclareOperator{\bigcurlywedgedot}{\dbigcurlywedgedot}{\tbigcurlywedgedot}
1637 \fdsy@DeclareOperator{\bigcurlyveedot}{\dbigcurlyveedot}{\tbigcurlyveedot}
1638 \fdsy@DeclareOperator{\bigdoublecurlywedge}{\dbigdoublecurlywedge}{\tbigdoublecurlywedge}
1639 \fdsy@DeclareOperator{\bigdoublecurlyvee}{\dbigdoublecurlyvee}{\tbigdoublecurlyvee}
1640 \fdsy@DeclareOperator{\bigcap}{\dbigcap}{\tbigcap}
1641 \fdsy@DeclareOperator{\bigcup}{\dbigcup}{\tbigcup}
1642 \fdsy@DeclareOperator{\bigcapdot}{\dbigcapdot}{\tbigcapdot}
1643 \fdsy@DeclareOperator{\bigcupdot}{\dbigcupdot}{\tbigcupdot}
1644 \fdsy@DeclareOperator{\bigcapplus}{\dbigcapplus}{\tbigcapplus}
1645 \fdsy@DeclareOperator{\bigcupplus}{\dbigcupplus}{\tbigcupplus}
1646 \fdsy@DeclareOperator{\biguplus}{\dbiguplus}{\tbiguplus}
1647 \fdsy@DeclareOperator{\bigsqcap}{\dbigsqcap}{\tbigsqcap}
1648 \fdsy@DeclareOperator{\bigsqcup}{\dbigsqcup}{\tbigsqcup}
1649 \fdsy@DeclareOperator{\bigsqcapdot}{\dbigsqcapdot}{\tbigsqcapdot}
1650 \fdsy@DeclareOperator{\bigsqcupdot}{\dbigsqcupdot}{\tbigsqcupdot}
1651 \fdsy@DeclareOperator{\bigsqcapplus}{\dbigsqcapplus}{\tbigsqcapplus}
1652 \fdsy@DeclareOperator{\bigsqcupplus}{\dbigsqcupplus}{\tbigsqcupplus}
1653 \fdsy@DeclareOperator{\bigoplus}{\dbigoplus}{\tbigoplus}
1654 \fdsy@DeclareOperator{\bigotimes}{\dbigotimes}{\tbigotimes}
1655 \fdsy@DeclareOperator{\bigodot}{\dbigodot}{\tbigodot}
1656 \fdsy@DeclareOperator{\bigooast}{\dbigoast}{\tbigooast}
1657 \fdsy@DeclareOperator{\sum}{\dsum}{\tsum}
1658 \fdsy@DeclareOperator{\osum}{\dosum}{\tosum}
1659 \fdsy@DeclareOperator{\modtwosum}{\dmodtwosum}{\tmodtwosum}
1660 \fdsy@DeclareOperator{\prod}{\dprod}{\tprod}
1661 \fdsy@DeclareOperator{\coprod}{\dcoprod}{\tcoprod}
1662 \fdsy@DeclareIntegral{\iint}{\diint}{\tiint}
1663 \fdsy@DeclareIntegral{\iiint}{\diiint}{\tiiint}
1664 \fdsy@DeclareIntegral{\iiiiint}{\diiiiint}{\tiiiint}
1665 \fdsy@DeclareIntegral{\idotsint}{\didotsint}{\tidotsint}
1666 \fdsy@DeclareIntegral{\dotsint}{\ddotsint}{\tdotsint}

```



```

1667 \fdsy@DeclareIntegral{\landupint}{\dlandupint}{\tlandupint}
1668 \fdsy@DeclareIntegral{\intclockwise}{\dintclockwise}{\tintclockwise}
1669 \fdsy@DeclareIntegral{\landdownint}{\dlanddownint}{\tlanddownint}
1670 \fdsy@DeclareIntegral{\awint}{\dawint}{\tawint}
1671 \fdsy@DeclareIntegral{\intctrclockwise}{\dintctrclockwise}{\tintctrclockwise}
1672 \fdsy@DeclareIntegral{\landdownint}{\dlanddownint}{\tlanddownint}
1673 \fdsy@DeclareIntegral{\intbar}{\dintbar}{\tintbar}
1674 \fdsy@DeclareIntegral{\intBar}{\dintBar}{\tintBar}
1675 \fdsy@DeclareIntegral{\fint}{\dfint}{\tfint}
1676 \fdsy@DeclareIntegral{\oiint}{\doiint}{\toiint}
1677 \fdsy@DeclareIntegral{\oiint}{\doiint}{\toiint}
1678 \fdsy@DeclareIntegral{\rcircclerightint}{\drcircclerightint}{\trcircclerightint}
1679 \fdsy@DeclareIntegral{\ointctrclockwise}{\dointctrclockwise}{\tointctrclockwise}
1680 \fdsy@DeclareIntegral{\lcircclerightint}{\dlcircclerightint}{\tlcircclerightint}
1681 \fdsy@DeclareIntegral{\varointclockwise}{\dvarointclockwise}{\tvarointclockwise}
1682 \fdsy@DeclareIntegral{\rcircleleftint}{\drcircleleftint}{\trcircleleftint}
1683 \fdsy@DeclareIntegral{\varointctrclockwise}{\dvarointctrclockwise}{\tvarointctrclockwise}
1684 \fdsy@DeclareIntegral{\lcircleleftint}{\dlcircleleftint}{\tlcircleleftint}
1685 \fdsy@DeclareIntegral{\ointclockwise}{\dointclockwise}{\tointclockwise}
1686 \fdsy@DeclareIntegral{\sumint}{\dsumint}{\tsumint}
1687
1688 \def\intkern@{\mkern-8.5mu\mathchoice{\mkern-1mu}{}}{}{}{}
1689 \def\intdots@{\mkern-6mu%
1690   \mathchoice{\@cdots}%
1691   {{\cdotp}\mkern0.5mu{\cdotp}\mkern0.5mu{\cdotp}}%
1692   {{\cdotp}{\cdotp}{\cdotp}}%
1693   {{\cdotp}{\cdotp}{\cdotp}}%
1694   \mkern-6mu}

Math accents.
1695 \DeclareMathAccent{\widehat}{\mathord}{largesymbols}{"72}
1696 \DeclareMathAccent{\widetilde}{\mathord}{largesymbols}{"78}
1697 \DeclareMathAccent{\wideparen}{\mathord}{largesymbols}{"7E}
1698 \DeclareMathAccent{\vec}{\mathord}{largesymbols}{"84}
1699 \DeclareMathAccent{\middlebar}{\mathord}{largesymbols}{"85}
1700 \DeclareMathAccent{\middleslash}{\mathord}{largesymbols}{"86}
1701 \DeclareMathAccent{\strokethrough}{\mathord}{largesymbols}{"87}

FdSymbolF: delimiters
1702 \let\lfloor\undefined
1703 \let\rfloor\undefined
1704 \let\lceil\undefined
1705 \let\rceil\undefined
1706 \let\langle\undefined
1707 \let\rangle\undefined
1708 \iffdsy@largedelims
1709 \fdsy@DeclareOpen{({}{delimiters)}{"01}

```

```

1710 \fdsy@DeclareClose{}{delimiters}"07}
1711 \fdsy@DeclareOpen{\lparen}{delimiters}"01}
1712 \fdsy@DeclareClose{\rparen}{delimiters}"07}
1713 \fdsy@DeclareOpen{[]}{delimiters}"13}
1714 \fdsy@DeclareClose{[]}{delimiters}"19}
1715 \fdsy@DeclareOpen{\lbrack}{delimiters}"13}
1716 \fdsy@DeclareClose{\rbrack}{delimiters}"19}
1717 \fdsy@DeclareOpen{\lfloor}{delimiters}"1F}
1718 \fdsy@DeclareClose{\rfloor}{delimiters}"25}
1719 \fdsy@DeclareOpen{\lceil}{delimiters}"2B}
1720 \fdsy@DeclareClose{\rceil}{delimiters}"31}
1721 \fdsy@DeclareOpen{\ulcorner}{delimiters}"37}
1722 \fdsy@DeclareClose{\urcorner}{delimiters}"3D}
1723 \fdsy@DeclareOpen{\llcorner}{delimiters}"43}
1724 \fdsy@DeclareClose{\lrcorner}{delimiters}"49}
1725 \fdsy@DeclareOpen{\ullcorner}{delimiters}"4F}
1726 \fdsy@DeclareClose{\ulrcorner}{delimiters}"55}
1727 \fdsy@DeclareOpen{\lsem}{delimiters}"61}
1728 \fdsy@DeclareClose{\rsem}{delimiters}"67}
1729 \fdsy@DeclareOpen{\lBrack}{delimiters}"61}
1730 \fdsy@DeclareClose{\rBrack}{delimiters}"67}
1731 \fdsy@DeclareOpen{\lbrace}{delimiters}"73}
1732 \fdsy@DeclareClose{\rbrace}{delimiters}"79}
1733 \fdsy@DeclareOpen{<}{delimiters}"86}
1734 \fdsy@DeclareClose{>}{delimiters}"8C}
1735 \fdsy@DeclareOpen{\langle}{delimiters}"86}
1736 \fdsy@DeclareClose{\rangle}{delimiters}"8C}
1737 \fdsy@DeclareOpen{\lAngle}{delimiters}"92}
1738 \fdsy@DeclareClose{\rAngle}{delimiters}"98}
1739 \fdsy@DeclareOpen{\langedot}{delimiters}"9E}
1740 \fdsy@DeclareClose{\rangedot}{delimiters}"A4}
1741 \fdsy@DeclareDelimiter{/}{\mathord}{delimiters}"AA}
1742 \fdsy@DeclareDelimiter{\mathslash}{\mathord}{delimiters}"AA}
1743 \DeclareMathSymbol{\divslash}{\mathbin}{delimiters}"AA}
1744 \fdsy@DeclareDelimiter{\backslash}{\mathord}{delimiters}"B0}
1745 \expandafter\DeclareMathDelimiter\@backslashchar%
1746 {\mathord}{delimiters}"B0}{delimiters}"B0}
1747 \DeclareMathSymbol{\setminus}{\mathbin}{delimiters}"B0}
1748 \fdsy@DeclareDelimiter{|}{\mathord}{delimiters}"B7}
1749 \fdsy@DeclareDelimiter{\vert}{\mathord}{delimiters}"B7}
1750 \fdsy@DeclareOpen{\lvert}{delimiters}"B7}
1751 \fdsy@DeclareClose{\rvert}{delimiters}"B7}
1752 \DeclareMathSymbol{\mid}{\mathrel}{delimiters}"B7}
1753 \DeclareMathSymbol{\nmid}{\mathrel}{delimiters}"BA}
1754 \fdsy@DeclareDelimiter{\Vert}{\mathord}{delimiters}"BE}

```

```

1755 \fdsy@DeclareOpen{\lVert}{delimiters}"BE}
1756 \fdsy@DeclareClose{\rVert}{delimiters}"BE}
1757 \DeclareMathSymbol{\parallel}{\mathrel}{delimiters}"BE}
1758 \DeclareMathSymbol{\nparallel}{\mathrel}{delimiters}"C1}
1759 \fdsy@DeclareDelimiter{\Vvert}{\mathord}{delimiters}"C4}
1760 \fdsy@DeclareOpen{\lVvert}{delimiters}"C4}
1761 \fdsy@DeclareClose{\rVvert}{delimiters}"C4}
1762 \else
1763 \fdsy@DeclareOpen{(){delimiters}"00}
1764 \fdsy@DeclareClose{)}{delimiters}"06}
1765 \fdsy@DeclareOpen{\lparen}{delimiters}"00}
1766 \fdsy@DeclareClose{\rparen}{delimiters}"06}
1767 \fdsy@DeclareOpen{[]}{delimiters}"12}
1768 \fdsy@DeclareClose{[]}{delimiters}"18}
1769 \fdsy@DeclareOpen{\lbrack}{delimiters}"12}
1770 \fdsy@DeclareClose{\rbrack}{delimiters}"18}
1771 \fdsy@DeclareOpen{\lfloor}{delimiters}"1E}
1772 \fdsy@DeclareClose{\rfloor}{delimiters}"24}
1773 \fdsy@DeclareOpen{\lceil}{delimiters}"2A}
1774 \fdsy@DeclareClose{\rceil}{delimiters}"30}
1775 \fdsy@DeclareOpen{\ulcorner}{delimiters}"36}
1776 \fdsy@DeclareClose{\urcorner}{delimiters}"3C}
1777 \fdsy@DeclareOpen{\llcorner}{delimiters}"42}
1778 \fdsy@DeclareClose{\lrcorner}{delimiters}"48}
1779 \fdsy@DeclareOpen{\ulcorner}{delimiters}"4E}
1780 \fdsy@DeclareClose{\ulcorner}{delimiters}"54}
1781 \fdsy@DeclareOpen{\lsem}{delimiters}"60}
1782 \fdsy@DeclareClose{\rsem}{delimiters}"66}
1783 \fdsy@DeclareOpen{\lBrack}{delimiters}"60}
1784 \fdsy@DeclareClose{\rBrack}{delimiters}"66}
1785 \fdsy@DeclareOpen{\lbrace}{delimiters}"72}
1786 \fdsy@DeclareClose{\rbrace}{delimiters}"78}
1787 \fdsy@DeclareOpen{<}{delimiters}"85}
1788 \fdsy@DeclareClose{>}{delimiters}"8B}
1789 \fdsy@DeclareOpen{\langle}{delimiters}"85}
1790 \fdsy@DeclareClose{\rangle}{delimiters}"8B}
1791 \fdsy@DeclareOpen{\lAngle}{delimiters}"91}
1792 \fdsy@DeclareClose{\rAngle}{delimiters}"97}
1793 \fdsy@DeclareOpen{\langledot}{delimiters}"9D}
1794 \fdsy@DeclareClose{\rangledot}{delimiters}"A3}
1795 \fdsy@DeclareDelimiter{/}{\mathord}{delimiters}"A9}
1796 \fdsy@DeclareDelimiter{\mathslash}{\mathord}{delimiters}"A9}
1797 \DeclareMathSymbol{\divslash}{\mathbin}{delimiters}"A9}
1798 \fdsy@DeclareDelimiter{\backslash}{\mathord}{delimiters}"AF}
1799 \expandafter\DeclareMathDelimiter\@backslashchar%

```

```

1800   {\mathord}{delimiters}"AF}{delimiters}"AF}
1801   \DeclareMathSymbol{\setminus}{\mathbin}{delimiters}"AF}
1802   \fdsy@DeclareDelimiter{|}{\mathord}{delimiters}"B6}
1803   \fdsy@DeclareDelimiter{\vert}{\mathord}{delimiters}"B6}
1804   \fdsy@DeclareOpen{\lvert}{delimiters}"B6}
1805   \fdsy@DeclareClose{\rvert}{delimiters}"B6}
1806   \DeclareMathSymbol{\mid}{\mathrel}{delimiters}"B6}
1807   \DeclareMathSymbol{\nmid}{\mathrel}{delimiters}"B9}
1808   \fdsy@DeclareDelimiter{\Vert}{\mathord}{delimiters}"BD}
1809   \fdsy@DeclareOpen{\lVert}{delimiters}"BD}
1810   \fdsy@DeclareClose{\rVert}{delimiters}"BD}
1811   \DeclareMathSymbol{\parallel}{\mathrel}{delimiters}"BD}
1812   \DeclareMathSymbol{\nparallel}{\mathrel}{delimiters}"C0}
1813   \fdsy@DeclareDelimiter{\Vvert}{\mathord}{delimiters}"C3}
1814   \fdsy@DeclareOpen{\lVvert}{delimiters}"C3}
1815   \fdsy@DeclareClose{\rVvert}{delimiters}"C3}
1816 \fi
1817 \let\lVert\lVert
1818 \let\divides\mid
1819 \let\ndivides\nmid
1820 \DeclareMathSymbol{\shortmid}{\mathrel}{delimiters}"B5}
1821 \DeclareMathSymbol{\nshortmid}{\mathrel}{delimiters}"B8}
1822 \DeclareMathSymbol{\shortparallel}{\mathrel}{delimiters}"BC}
1823 \DeclareMathSymbol{\nshortparallel}{\mathrel}{delimiters}"BF}
1824 \fdsy@DeclareDelimiter{\arrowvert}{\mathord}{delimiters}"BB}
1825 \fdsy@DeclareDelimiter{\Arrowvert}{\mathord}{delimiters}"C2}
1826 \fdsy@DeclareClose{\lgrouper}{delimiters}"7E}
1827 \fdsy@DeclareOpen{\rgrouper}{delimiters}"7F}
1828 \fdsy@DeclareClose{\rmoustache}{delimiters}"80}
1829 \fdsy@DeclareOpen{\lmoustache}{delimiters}"81}
1830 \fdsy@DeclareDelimiter{\bracevert}{\mathord}{delimiters}"84}
1831 \let\uparrow\undefined
1832 \let\downarrow\undefined
1833 \let\updownarrow\undefined
1834 \let\Uparrow\undefined
1835 \let\Downarrow\undefined
1836 \let\Updownarrow\undefined
1837 \DeclareMathDelimiter{\uparrow}{\mathrel}{arrows}"01}{delimiters}"C6}
1838 \DeclareMathDelimiter{\downarrow}{\mathrel}{arrows}"03}{delimiters}"C7}
1839 \DeclareMathDelimiter{\updownarrow}{\mathrel}{arrows}"11}{delimiters}"C8}
1840 \DeclareMathDelimiter{\Uparrow}{\mathrel}{arrows}"09}{delimiters}"C9}
1841 \DeclareMathDelimiter{\Downarrow}{\mathrel}{arrows}"0B}{delimiters}"CA}
1842 \DeclareMathDelimiter{\Updownarrow}{\mathrel}{arrows}"15}{delimiters}"CB}

Horizontal braces.
1843 \DeclareMathSymbol{\braced}{\mathord}{delimiters}"CC}

```

```

1844 \DeclareMathSymbol{\bracelu}{\mathord}{delimiters}{CD}
1845 \DeclareMathSymbol{\bracerd}{\mathord}{delimiters}{CE}
1846 \DeclareMathSymbol{\braceru}{\mathord}{delimiters}{CF}
1847 \DeclareMathSymbol{\bracemd}{\mathord}{delimiters}{D0}
1848 \DeclareMathSymbol{\bracemu}{\mathord}{delimiters}{D1}
1849 \DeclareMathSymbol{\bracemid}{\mathord}{delimiters}{D2}
1850
1851 \def\bracefill@#1#2#3#4#5{$\m@th#5#1\leaders\hbox{$#4$}\hfill#2\leaders\hbox{$#4$}\hfill#3$}
1852 \def\downbracefill@{\bracefill@\braced\bracemd\bracerd\bracemid}
1853 \def\upbracefill@{\bracefill@\bracelu\bracemu\braceru\bracemid}
1854 \def\downgroupfill@{\bracefill@\braced{}}\bracerd\bracemid}
1855 \def\upgroupfill@{\bracefill@\bracelu{}}\braceru\bracemid}
1856 \def\linesegmentfill@{\arrowfill@\leftfootline\relbar\rightfootline}
1857 \def\leftharpoonfill@{\arrowfill@\leftharpoondown\relbar\relbar}
1858 \def\rightharpoonfill@{\arrowfill@\relbar\relbar\rightharpoonup}
1859
1860 \DeclareRobustCommand{\overbrace}[1]{\mathop{\mathpalette{\overarrow@downbracefill@}{#1}}\limits}
1861 \DeclareRobustCommand{\underbrace}[1]{\mathop{\mathpalette{\underarrow@upbracefill@}{#1}}\limits}
1862 \DeclareRobustCommand{\overgroup}{\mathpalette{\overarrow@downgroupfill@}}
1863 \DeclareRobustCommand{\undergroup}{\mathpalette{\underarrow@upgroupfill@}}
1864 \DeclareRobustCommand{\overlinesegment}{\mathpalette{\overarrow@linesegmentfill@}}
1865 \DeclareRobustCommand{\overleftharpoon}{\mathpalette{\overarrow@leftharpoonfill@}}
1866 \DeclareRobustCommand{\overrightharpoon}{\mathpalette{\overarrow@rightharpoonfill@}}
1867 \DeclareRobustCommand{\underlinesegment}{\mathpalette{\underarrow@linesegmentfill@}}

Radical symbols.
1868 \iffdsy@largedelims
1869 \DeclareMathRadical{\sqrtsign}{delimiters}{D4}{delimiters}{D4}
1870 \DeclareMathSymbol{\surd}{\mathop}{delimiters}{D4}
1871 \else
1872 \DeclareMathRadical{\sqrtsign}{delimiters}{D3}{delimiters}{D3}
1873 \DeclareMathSymbol{\surd}{\mathop}{delimiters}{D3}
1874 \fi

```

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

```

1875 \def\r@t#1#2{\setbox\z@\hbox{$\m@th#1\sqrt{#2}$}%
1876 \dimen@ \ht\z@ \advance\dimen@-\dp\z@
1877 \mkern5mu\raise.6\dimen@copy\rootbox \mkern-8mu\box\z@}

```

Mathchars.

```

1878 \DeclareMathSymbol{+}{\mathbin}{symbols}{11}
1879 \DeclareMathSymbol{-}{\mathbin}{symbols}{0E}
1880 \DeclareMathSymbol{*}{\mathbin}{symbols}{98}
1881 \DeclareMathSymbol{:}{\mathrel}{symbols}{02}
1882 \DeclareMathSymbol{=}{\mathrel}{relations}{00}
1883 \DeclareMathSymbol{<}{\mathrel}{relations}{24}

```

```

1884 \DeclareMathSymbol{>}{\mathrel}{relations}{"25}
1885 \iffdsy@largedelims
1886 \DeclareMathSymbol{|}{\mathord}{delimiters}{"B6}
1887 \DeclareMathSymbol{({}{\mathopen}{delimiters}{"01}
1888 \DeclareMathSymbol{)}{\mathclose}{delimiters}{"07}
1889 \DeclareMathSymbol{[}{\mathopen}{delimiters}{"13}
1890 \DeclareMathSymbol{]}\mathclose}{delimiters}{"19}
1891 \DeclareMathSymbol{/}{\mathord}{delimiters}{"AA}
1892 \else
1893 \DeclareMathSymbol{|}{\mathord}{delimiters}{"B5}
1894 \DeclareMathSymbol{({}{\mathopen}{delimiters}{"00}
1895 \DeclareMathSymbol{)}{\mathclose}{delimiters}{"06}
1896 \DeclareMathSymbol{[}{\mathopen}{delimiters}{"12}
1897 \DeclareMathSymbol{]}\mathclose}{delimiters}{"18}
1898 \DeclareMathSymbol{/}{\mathord}{delimiters}{"A9}
1899 \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.

```

1900 \def\c@ncel#1#2{\m@th\oalign{$\hfil#1/\hfil$\cr cr$#1#2$}}
1901 \def\not#1{\mathrel{\m@th\mathpalette\c@ncel{#1}}}
1902 \
```