Every symbol (most symbols) defined by unicode-math

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This document uses the file `unicode-math-table.tex` to print every symbol defined by the unicode-math package. Use this document to find the command name or the Unicode glyph slot for a symbol that you wish to use. Eight fonts are shown: (with approximate symbol counts)

M Latin Modern Math (1588)

X XITS Math (2437)

C Cambria Math (2189)

L (0)

D (0)

A Asana Math (2256)

P TeX Gyre Pagella Math (1641)

E Neo Euler (579)

Symbols defined in Plain TEX are indicated with [p] after their macro name. Symbols defined in amssymb are indicated with [a].

Contents

1 Opening symbols, `\mathopen`

USV	M	X	C	L	D	A	P	E	Macro	Description
00028	(	(	(			(	(	(	`\lparen`	left parenthesis
0005B	[	[	[			[	[	[	`\lbrack`	left square bracket
0007B	{	{	{			{	{	{	`\lbrace`(p)	left curly bracket
0221A	√	√	√			√	√	√	`\sqrt`(p)	radical
0221B		∛	∛			∛		∛	`\cuberoot`	cube root
0221C		∜	∜			∜		∜	`\fourthroot`	fourth root
02308	⌈	⌈	⌈			⌈	⌈	⌈	`\lceil`(p)	left ceiling
0230A	⌊	⌊	⌊			⌊	⌊	⌊	`\lfloor`(p)	left floor
0231C	⌜	⌜	⌜			⌜	⌜		`\ulcorner`	upper left corner
0231E	⌞	⌞	⌞			⌞	⌞		`\llcorner`	lower left corner
023B0		⎰	⎰						`\lmoustache`(p)	upper left or lower right curly bracket section
02772									`\lbrbrak`	light left tortoise shell bracket ornament
027C5		⟅				⟅			`\lbag`	left s-shaped bag delimiter
027CC		⟌							`\longdivision`	long division
027E6	⟦	⟦	⟦			⟦	⟦		`\lBrack`	mathematical left white square bracket
027E8	⟨	⟨	⟨			⟨	⟨	⟨	`\langle`(p)	mathematical left angle bracket
027EA	⟪	⟪	⟪			⟪	⟪		`\lAngle`	mathematical left double angle bracket
027EC						⟬			`\Lbrbrak`	mathematical left white tortoise shell bracket
027EE	(	(				(	(		`\lgroup`(p)	mathematical left flattened parenthesis
02983		⦃	⦃			⦃			`\lBrace`	left white curly bracket
02985		⦅	⦅			⦅			`\lParen`	left white parenthesis
02987		⦇	⦇			⦇			`\llparenthesis`	z notation left image bracket
02989		⦉	⦉			⦉			`\llangle`	z notation left binding bracket
0298B		⦋	⦋			⦋			`\lbrackubar`	left square bracket with underbar
0298D		⦍	⦍			⦍			`\lbrackultick`	left square bracket with tick in top corner
0298F		⦏	⦏			⦏			`\lbracklltick`	left square bracket with tick in bottom corner
02991		⦑	⦑			⦑			`\langledot`	left angle bracket with dot
02993		⦓	⦓			⦓			`\lparenless`	left arc less-than bracket
02995		⦕	⦕			⦕			`\Lparengtr`	double left arc greater-than bracket
02997		⦗	⦗			⦗			`\lblkbrbrak`	left black tortoise shell bracket
029D8		⧘	⧘			⧘			`\lvzigzag`	left wiggly fence
029DA		⧚	⧚			⧚			`\Lvzigzag`	left double wiggly fence
029FC		⧼	⧼			⧼			`\lcurvyangle`	left pointing curved angle bracket
03014			〔			〔			`\lbrbrak`	left broken bracket
03018						〘			`\Lbrbrak`	left white tortoise shell bracket

2 Closing symbols, `\mathclose`

USV	M	X	C	L	D	A	P	E	Macro	Description
00029	)	)	)			)	)	)	`\rparen`	right parenthesis
0005D	]	]	]			]	]	]	`\rbrack`	right square bracket
0007D	}	}	}			}	}	}	`\rbrace`(p)	right curly bracket
02309	⌉	⌉	⌉			⌉	⌉	⌉	`\rceil`(p)	right ceiling
0230B	⌋	⌋	⌋			⌋	⌋	⌋	`\rfloor`(p)	right floor
0231D	⌝	⌝	⌝			⌝	⌝		`\urcorner`	upper right corner
0231F	⌟	⌟	⌟			⌟	⌟		`\lrcorner`	lower right corner
023B1		⎱	⎱						`\rmoustache`(p)	upper right or lower left curly bracket section
02773									`\rbrbrak`	light right tortoise shell bracket ornament
027C6		⟆				⟆			`\rbag`	right s-shaped bag delimiter
027E7	⟧	⟧	⟧			⟧	⟧		`\rBrack`	mathematical right white square bracket
027E9	⟩	⟩	⟩			⟩	⟩	⟩	`\rangle`(p)	mathematical right angle bracket
027EB	⟫	⟫	⟫			⟫	⟫		`\rAngle`	mathematical right double angle bracket
027ED						⦐			`\Rbrbrak`	mathematical right white tortoise shell bracket
027EF	)	)				)	)		`\rgroup`(p)	mathematical right flattened parenthesis
02984		⦄	⦄			⦄			`\rBrace`	right white curly bracket
02986		⦆	⦆			⦆			`\rParen`	right white parenthesis
02988		⦈	⦈			⦈			`\rrparenthesis`	z notation right image bracket
0298A		⦊	⦊			⦊			`\rrangle`	z notation right binding bracket
0298C		⦌	⦌			⦌			`\rbrackubar`	right square bracket with underbar
0298E		⦎	⦎			⦎			`\rbracklrtick`	right square bracket with tick in bottom corner
02990		⦐	⦐			⦐			`\rbrackurtick`	right square bracket with tick in top corner
02992		⦒	⦒			⦒			`\rangledot`	right angle bracket with dot
02994		⦔	⦔			⦔			`\rparengtr`	right arc greater-than bracket
02996		⦖	⦖			⦖			`\Rparenless`	double right arc less-than bracket
02998		⦘	⦘			⦘			`\rblkbrbrak`	right black tortoise shell bracket
029D9		⧙	⧙			⧙			`\rvzigzag`	right wiggly fence
029DB		⧛	⧛			⧛			`\Rvzigzag`	right double wiggly fence
029FD		⧽	⧽			⧽			`\rcurvyangle`	right pointing curved angle bracket
03015			⟧			〕			`\rbrbrak`	right broken bracket
03019						〙			`\Rbrbrak`	right white tortoise shell bracket

3 Fence symbols, \mathfence

USV	M	X	C	L	D	A	P	E	Macro	Description
0007C	$\vert$	$\vert$	$\vert$			$\vert$	$\vert$	$\vert$	\vert(p)	vertical bar
02016	$\Vert$	$\Vert$	$\Vert$			$\Vert$	$\Vert$	$\Vert$	\Vert(p)	double vertical bar
02980		$\Vvert$	$\Vvert$			$\Vvert$			\Vvert	triple vertical bar delimiter

4 Punctuation symbols, \mathpunct

USV	M	X	C	L	D	A	P	E	Macro	Description
00021	!	!	!			!	!	!	\exclam	exclamation mark
0002C	,	,	,			,	,	,	\comma	comma
0003A	:	:	:			:	:	:	\mathcolon	colon
0003B	;	;	;			;	;	;	\semicolon	semicolon p:

5 'Over' symbols, \mathover

USV	M	X	C	L	D	A	P	E	Macro	Description
023B4	$\overbracket{x+y}$	$\overbracket{x+y}$	$\overbracket{x+y}$			$\overbracket{x+y}$	$\overbracket{x+y}$		\overbracket	top square bracket
023DC	$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{x+y}$			$\overparen{x+y}$	$\overparen{x+y}$	$\overparen{+}$	\overparen	top parenthesis (mathematical use)
023DE	$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{x+y}$			$\overbrace{x+y}$	$\overbrace{x+y}$	$\overbrace{+}$	\overbrace(p)	top curly bracket (mathematical use)

6 'Under' symbols, \mathunder

USV	M	X	C	L	D	A	P	E	Macro	Description
023B5	$\underbracket{x+y}$	$\underbracket{x+y}$	$\underbracket{x+y}$			$\underbracket{x+y}$	$\underbracket{x+y}$		\underbracket	bottom square bracket
023DD	$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{x+y}$			$\underparen{x+y}$	$\underparen{x+y}$	$\underparen{+}$	\underparen	bottom parenthesis (mathematical use)
023DF	$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{x+y}$			$\underbrace{x+y}$	$\underbrace{x+y}$	$\underbrace{+}$	\underbrace(p)	bottom curly bracket (mathematical use)

7 Accents, \mathaccent

Note that accents will only be properly placed if used with an OpenType font with the necessary information.

USV	M	X	C	L	D	A	P	E	Macro	Description
00300	$\grave{x}$	$\grave{x}$	$\grave{x}$			$\grave{x}$	$\grave{x}$	`	\grave(p)	grave accent
00301	$\acute{x}$	$\acute{x}$	$\acute{x}$			$\acute{x}$	$\acute{x}$	´	\acute(p)	acute accent
00302	$\hat{x}$	$\hat{x}$	$\hat{x}$			$\hat{x}$	$\hat{x}$	^	\hat(p)	circumflex accent
00303	$\tilde{x}$	$\tilde{x}$	$\tilde{x}$			$\tilde{x}$	$\tilde{x}$	~	\tilde(p)	tilde
00304	$\bar{x}$	$\bar{x}$	$\bar{x}$			$\bar{x}$	$\bar{x}$	¯	\bar(p)	macron
00305	$\overline{x}$	$\overline{x}$	$\overline{x}$			$\overline{x}$	$\overline{x}$	¯	\overbar	overbar embellishment
00306	$\breve{x}$	$\breve{x}$	$\breve{x}$			$\breve{x}$	$\breve{x}$	˘	\breve(p)	breve
00307	$\dot{x}$	$\dot{x}$	$\dot{x}$			$\dot{x}$	$\dot{x}$	˙	\dot(p)	dot above
00308	$\ddot{x}$	$\ddot{x}$	$\ddot{x}$			$\ddot{x}$	$\ddot{x}$	¨	\ddot(p)	dieresis
00309	$\hat{x}$	$\hat{x}$	$\hat{x}$				$\hat{x}$		\ovhook	combining hook above
00030A	$\mathring{x}$	$\mathring{x}$	$\mathring{x}$			$\mathring{x}$	$\mathring{x}$	°	\ocirc	ring
00030C	$\check{x}$	$\check{x}$	$\check{x}$			$\check{x}$	$\check{x}$	ˇ	\check(p)	caron
00310		$\overset{\circ}{x}$	$\overset{\circ}{x}$						\candra	candrabindu (non-spacing)
00312		$\overset{\backprime}{x}$	$\overset{\backprime}{x}$						\oturnedcomma	combining turned comma above
00315		$\overset{\prime}{x}$	$\overset{\prime}{x}$						\ocommatopright	combining comma above right
00031A		$\vec{x}$	$\vec{x}$						\droang	left angle above (non-spacing)
00338	$\not{x}$	$\not{x}$	$\not{x}$			$\not{x}$	$\not{x}$	/	\not(p)	combining long solidus overlay
020D0	$\overleftharpoon{x}$	$\overleftharpoon{x}$	$\overleftharpoon{x}$			$\overleftharpoon{x}$	$\overleftharpoon{x}$		\leftharpoonaccent	combining left harpoon above
020D1	$\vec{x}$	$\vec{x}$	$\vec{x}$			$\vec{x}$	$\vec{x}$		\rightharpoonaccent	combining right harpoon above
020D2	$\overset{\vert}{x}$	$\overset{\vert}{x}$	$\overset{\vert}{x}$			$\overset{\vert}{x}$	$\overset{\vert}{x}$		\vertoverlay	combining long vertical line overlay
020D6	$\overleftarrow{x}$	$\overleftarrow{x}$	$\overleftarrow{x}$			$\overleftarrow{x}$	$\overleftarrow{x}$	←	\overleftarrow(p)	combining left arrow above
020D7	$\vec{x}$	$\vec{x}$	$\vec{x}$			$\vec{x}$	$\vec{x}$	→	\vec(p)	combining right arrow above
020DB	$\dddot{x}$	$\dddot{x}$	$\dddot{x}$			$\dddot{x}$	$\dddot{x}$	...	\dddot	combining three dots above
020DC	$\ddddot{x}$	$\ddddot{x}$	$\ddddot{x}$			$\ddddot{x}$	$\ddddot{x}$	....	\ddddot	combining four dots above
020E1	$\overleftrightarrow{x}$	$\overleftrightarrow{x}$	$\overleftrightarrow{x}$			$\overleftrightarrow{x}$	$\overleftrightarrow{x}$	↔	\overleftrightarrow	combining left right arrow above
020E7		$\overset{\lceil}{x}$				$\overset{\lceil}{x}$			\annuity	combining annuity symbol
020E9	$\overset{\frown}{x}$	$\overset{\frown}{x}$	$\overset{\frown}{x}$			$\overset{\frown}{x}$	$\overset{\frown}{x}$		\widebridgeabove	combining wide bridge above
020F0	$\overset{*}{x}$	$\overset{*}{x}$					$\overset{*}{x}$		\asteraccent	combining asterisk above

8 Bottom accents, \mathbotaccent

USV	M	X	C	L	D	A	P	E	Macro	Description
00330	$\underset{\sim}{x}$	$\underset{\sim}{x}$	$\underset{\sim}{x}$				$\underset{\sim}{x}$	~	\wideutilde	under tilde accent (multiple characters and non-spacing)
00331	$\underline{x}$	$\underline{x}$	$\underline{x}$				$\underline{x}$	_	\underbar	combining macron below
020E8	$\underset{\cdots}{x}$	$\underset{\cdots}{x}$	$\underset{\cdots}{x}$			$\underset{\cdots}{x}$	$\underset{\cdots}{x}$		\threeunderdot	combining triple underdot
020EC	$\underrightharpoondown{x}$	$\underrightharpoondown{x}$				$\underrightharpoondown{x}$	$\underrightharpoondown{x}$		\underrightharpoondown	combining rightwards harpoon with barb downwards
020ED	$\underleftharpoondown{x}$	$\underleftharpoondown{x}$				$\underleftharpoondown{x}$	$\underleftharpoondown{x}$		\underleftharpoondown	combining leftwards harpoon with barb downwards
020EE	$\underleftarrow{x}$	$\underleftarrow{x}$				$\underleftarrow{x}$	$\underleftarrow{x}$	←	\underleftarrow	combining left arrow below
020EF	$\underrightarrow{x}$	$\underrightarrow{x}$				$\underrightarrow{x}$	$\underrightarrow{x}$	→	\underrightarrow	combining right arrow below

9 Big operators, \mathop

Of the operators shown below, a subset need to be flagged by unicode-math for \nolimits adjustments.
The limits behaviour as specified by unicode-math are shown with grey subscripts and superscripts.

USV	M	X	C	L	D	A	P	E	Macro	Description
02140									\Bbbsum	double-struck n-ary summation
0220F									\prod(p)	product operator
02210									\coprod(p)	coproduct operator
02211									\sum(p)	summation operator
0222B									\int(p)	integral operator
0222C									\iint	double integral operator
0222D									\iiint	triple integral operator
0222E									\oint(p)	contour integral operator
0222F									\oiint	double contour integral operator
02230									\oiiint	triple contour integral operator
02231									\intclockwise	clockwise integral
02232									\varointclockwise	contour integral, clockwise
02233									\ointctrclockwise	contour integral, anticlockwise
022C0									\bigwedge(p)	logical or operator
022C1									\bigvee(p)	logical and operator
022C2									\bigcap(p)	intersection operator
022C3									\bigcup(p)	union operator
027D5									\leftouterjoin	left outer join
027D6									\rightouterjoin	right outer join

USV	M	X	C	L	D	A	P	E	Macro	Description
027D7									\fullouterjoin	full outer join
027D8									\bigbot	large up tack
027D9									\bigtop	large down tack
029F8									\xsol	big solidus
029F9									\xbsol	big reverse solidus
02A00									\bigodot(p)	n-ary circled dot operator
02A01									\bigoplus(p)	n-ary circled plus operator
02A02									\bigotimes(p)	n-ary circled times operator
02A03									\bigcupdot	n-ary union operator with dot
02A04									\biguplus(p)	n-ary union operator with plus
02A05									\bigsqcap	n-ary square intersection operator
02A06									\bigsqcup(p)	n-ary square union operator
02A07									\conjquant	two logical and operator
02A08									\disjquant	two logical or operator
02A09									\bigtimes	n-ary times operator
02A0A									\modtwosum	modulo two sum
02A0B									\sumint	summation with integral
02A0C									\iiiint	quadruple integral operator
02A0D									\intbar	finite part integral

USV	M	X	C	L	D	A	P	E	Macro	Description
02A0E									\intBar	integral with double stroke
02A0F									\fint	integral average with slash
02A10									\cirfnint	circulation function
02A11									\awint	anticlockwise integration
02A12									\rppolint	line integration with rectangular path around pole
02A13									\scpolint	line integration with semicircular path around pole
02A14									\npolint	line integration not including the pole
02A15									\pointint	integral around a point operator
02A16									\sqint	quaternion integral operator
02A17									\intlarhk	integral with leftwards arrow with hook
02A18									\intx	integral with times sign
02A19									\intcap	integral with intersection
02A1A									\intcup	integral with union
02A1B									\upint	integral with overbar
02A1C									\lowint	integral with underbar
02A1D									\Join	join
02A1E									\bigtriangleleft	large left triangle operator
02A1F									\zcmp	z notation schema composition
02A20									\zpipe	z notation schema piping
02A21									\zproject	z notation schema projection
02AFC									\biginterleave	large triple vertical bar operator
02AFF									\bigtalloblong	n-ary white vertical bar

10 Binary relations, \mathbin

USV	M	X	C	L	D	A	P	E	Macro	Description
0002B	+	+	+			+	+	+	\plus	plus sign b:
000B1	±	±	±			±	±	±	\pm(p)	plus-or-minus sign
000B7	·	·	·			·	·	·	\cdotp(p)	/centerdot b: middle dot
000D7	×	×	×			×	×	×	\times(p)	multiply sign
000F7	÷	÷	÷			÷	÷	÷	\div(p)	divide sign
02020	†	†	†			†	†		\dagger(p)	dagger relation
02021	‡	‡	‡			‡	‡		\ddagger(p)	double dagger relation
02022	•	•	•			•	•		\smblkcircle	/bullet b: round bullet, filled
02040		‿				‿			\tieconcat	character tie, z notation sequence concatenation
02044	⁄	⁄	⁄			⁄	⁄	⁄	\fracslash	fraction slash
0214B		⅋	⅋			⅋			\upand	turned ampersand
02212	−	−	−			−	−	−	\minus	minus sign
02213	∓	∓	∓			∓	∓	∓	\mp(p)	minus-or-plus sign
02214	∔	∔	∔			∔	∔		\dotplus(a)	plus sign, dot above
02215	∕	∕	∕			∕	∕	∕	\divslash	division slash
02216	∖	∖	∖			∖	∖	∖	\smallsetminus(a)	small set minus (cf. reverse solidus)
02217	∗	∗	∗			∗	∗	∗	\ast(p)	centered asterisk
02218	∘	∘	∘			∘	∘	∘	\vysmwhtcircle	composite function (small circle)
02219	•	•	·			·	•	•	\vysmblkcircle	bullet operator
02227	∧	∧	∧			∧	∧	∧	\wedge(p)	/wedge /land b: logical and
02228	∨	∨	∨			∨	∨	∨	\vee(p)	/vee /lor b: logical or
02229	∩	∩	∩			∩	∩	∩	\cap(p)	intersection
0222A	∪	∪	∪			∪	∪	∪	\cup(p)	union or logical sum
02238	∸	∸	∸			∸	∸	∸	\dotminus	minus sign, dot above
0223E	∾	∾	∾			∾	∾		\invlazys	most positive [inverted lazy s]
02240	≀	≀	≀			≀	≀	≀	\wr(p)	wreath product
0228C	⊌	⊌	⊌			⊌	⊌		\cupleftarrow	multiset
0228D	⊍	⊍	⊍			⊍	⊍		\cupdot	union, with dot
0228E	⊎	⊎	⊎			⊎	⊎	⊎	\uplus(p)	plus sign in union
02293	⊓	⊓	⊓			⊓	⊓		\sqcap(p)	square intersection
02294	⊔	⊔	⊔			⊔	⊔		\sqcup(p)	square union
02295	⊕	⊕	⊕			⊕	⊕	⊕	\oplus(p)	plus sign in circle
02296	⊖	⊖	⊖			⊖	⊖	⊖	\ominus(p)	minus sign in circle
02297	⊗	⊗	⊗			⊗	⊗	⊗	\otimes(p)	multiply sign in circle
02298	⊘	⊘	⊘			⊘	⊘	⊘	\oslash(p)	solidus in circle
02299	⊙	⊙	⊙			⊙	⊙	⊙	\odot(p)	middle dot in circle
0229A	⊚	⊚	⊚			⊚	⊚		\circledcirc(a)	small circle in circle
0229B	⊛	⊛	⊛			⊛	⊛		\circledast(a)	asterisk in circle
0229C	⊜	⊜	⊜			⊜	⊜		\circledequal	equal in circle
0229D	⊝	⊝	⊝			⊝	⊝		\circleddash(a)	hyphen in circle
0229E	⊞	⊞	⊞			⊞	⊞		\boxplus(a)	plus sign in box
0229F	⊟	⊟	⊟			⊟	⊟		\boxminus(a)	minus sign in box
022A0	⊠	⊠	⊠			⊠	⊠		\boxtimes(a)	multiply sign in box
022A1	⊡	⊡	⊡			⊡	⊡		\boxdot(a)	/dotsquare /boxdot b: small dot in box
022BA	⊺	⊺	⊺			⊺	⊺		\intercal(a)	intercal
022BB	⊻	⊻	⊻			⊻	⊻		\veebar(a)	logical or, bar below (large vee); exclusive disjunction
022BC	⊼	⊼	⊼			⊼	⊼		\barwedge(a)	bar, wedge (large wedge)

USV	M	X	C	L	D	A	P	E	Macro	Description
022BD									\barvee	bar, vee (large vee)
022C4									\smwhtdiamond	white diamond
022C5									\cdot(p)	small middle dot
022C6									\star(p)	small star, filled, low
022C7									\divideontimes(a)	division on times
022C9									\ltimes(a)	times sign, left closed
022CA									\rtimes(a)	times sign, right closed
022CB									\leftthreetimes(a)	left semidirect product
022CC									\rightthreetimes(a)	right semidirect product
022CE									\curlyvee(a)	curly logical or
022CF									\curlywedge(a)	curly logical and
022D2									\Cap(a)	/cap /doublecap b: double intersection
022D3									\Cup(a)	/cup /doublecup b: double union
02305									\varbarwedge	/barwedge b: logical and, bar above [projective (bar over small wedge)]
02306									\vardoublebarwedge	/doublebarwedge b: logical and, double bar above [perspective (double bar over small wedge)]
0233D									\obar	circle with vertical bar
025B3									\bigtriangleup(p)	big up triangle, open
025B7									\triangleright(p)	(large) right triangle, open; z notation range restriction
025C1									\triangleleft(p)	(large) left triangle, open; z notation domain restriction
025CB									\mdlgwhtcircle	medium large circle
025EB									\boxbar	vertical bar in box
027C7									\veedot	or with dot inside
027D1									\wedgedot	and with dot
027E0									\lozengeminus	lozenge divided by horizontal rule
027E1									\concavediamond	white concave-sided diamond
027E2									\concavediamondtickleft	white concave-sided diamond with leftwards tick
027E3									\concavediamondtickright	white concave-sided diamond with rightwards tick
027E4									\whitesquaretickleft	white square with leftwards tick
027E5									\whitesquaretickright	white square with rightwards tick
02982									\typecolon	z notation type colon
029B5									\circlehbar	circle with horizontal bar
029B6									\circledvert	circled vertical bar
029B7									\circledparallel	circled parallel
029B8									\obslash	circled reverse solidus
029B9									\operp	circled perpendicular
029C0									\olessthan	circled less-than
029C1									\ogreaterthan	circled greater-than
029C4									\boxdiag	squared rising diagonal slash
029C5									\boxbslash	squared falling diagonal slash
029C6									\boxast	squared asterisk
029C7									\boxcircle	squared small circle
029C8									\boxbox	squared square
029CD									\triangleserifs	triangle with serifs at bottom
029D6									\hourglass	white hourglass
029D7									\blackhourglass	black hourglass
029E2									\shuffle	shuffle product
029EB									\mdlgblklozenge	black lozenge
029F5									\setminus(p)	reverse solidus operator
029F6									\dsol	solidus with overbar

USV	M	X	C	L	D	A	P	E	Macro	Description
029F7									\rsolbar	reverse solidus with horizontal stroke
029FA									\doubleplus	double plus
029FB									\tripleplus	triple plus
029FE									\tplus	tiny
029FF									\tminus	miny
02A22									\ringplus	plus sign with small circle above
02A23									\plushat	plus sign with circumflex accent above
02A24									\simplus	plus sign with tilde above
02A25									\plusdot	plus sign with dot below
02A26									\plussim	plus sign with tilde below
02A27									\plussubtwo	plus sign with subscript two
02A28									\plustrif	plus sign with black triangle
02A29									\commaminus	minus sign with comma above
02A2A									\minusdot	minus sign with dot below
02A2B									\minusfdots	minus sign with falling dots
02A2C									\minusrdots	minus sign with rising dots
02A2D									\opluslhrim	plus sign in left half circle
02A2E									\oplusrhrim	plus sign in right half circle
02A2F	×	×	×			×	×		\vectimes	vector or cross product
02A30									\dottimes	multiplication sign with dot above
02A31									\timesbar	multiplication sign with underbar
02A32									\btimes	semidirect product with bottom closed
02A33									\smashtimes	smash product
02A34									\otimeslhrim	multiplication sign in left half circle
02A35									\otimesrhrim	multiplication sign in right half circle
02A36									\otimeshat	circled multiplication sign with circumflex accent
02A37									\Otimes	multiplication sign in double circle
02A38									\odiv	circled division sign
02A39									\triangleplus	plus sign in triangle
02A3A									\triangleminus	minus sign in triangle
02A3B									\triangletimes	multiplication sign in triangle
02A3C									\intprod	interior product
02A3D									\intprodr	righthand interior product
02A3E									\fcmp	z notation relational composition
02A3F	⨿	⨿	⨿			⨿	⨿		\amalg(p)	amalgamation or coproduct
02A40									\capdot	intersection with dot
02A41									\uminus	union with minus sign
02A42									\barcup	union with overbar
02A43									\barcap	intersection with overbar
02A44									\capwedge	intersection with logical and
02A45									\cupvee	union with logical or
02A46									\cupovercap	union above intersection
02A47									\capovercup	intersection above union
02A48									\cupbarcap	union above bar above intersection
02A49									\capbarcup	intersection above bar above union
02A4A									\twocups	union beside and joined with union
02A4B									\twocaps	intersection beside and joined with intersection
02A4C									\closedvarcup	closed union with serifs
02A4D									\closedvarcap	closed intersection with serifs
02A4E									\Sqcap	double square intersection

USV	M	X	C	L	D	A	P	E	Macro	Description
02A4F									\Sqcup	double square union
02A50									\closedvarcupsmashprod	closed union with serifs and smash product
02A51									\wedgeodot	logical and with dot above
02A52									\veeodot	logical or with dot above
02A53									\Wedge	double logical and
02A54									\Vee	double logical or
02A55									\wedgeonwedge	two intersecting logical and
02A56									\veeonvee	two intersecting logical or
02A57									\bigslopedvee	sloping large or
02A58									\bigslopedwedge	sloping large and
02A5A									\wedgemidvert	logical and with middle stem
02A5B									\veemidvert	logical or with middle stem
02A5C									\midbarwedge	ogical and with horizontal dash
02A5D									\midbarvee	logical or with horizontal dash
02A5E									\doublebarwedge[a]	logical and with double overbar
02A5F									\wedgebar	logical and with underbar
02A60									\wedgedoublebar	logical and with double underbar
02A61									\varveebar	small vee with underbar
02A62									\doublebarvee	logical or with double overbar
02A63									\veedoublebar	logical or with double underbar
02A64									\dsub	z notation domain antirestriction
02A65									\rsub	z notation range antirestriction
02A71									\eqqplus	equals sign above plus sign
02A72									\pluseqq	plus sign above equals sign
02AF4									\interleave	triple vertical bar binary relation
02AF5									\nhVvert	triple vertical bar with horizontal stroke
02AF6									\threedotcolon	triple colon operator
02AFB									\trslash	triple solidus binary relation
02AFD									\sslash	double solidus operator
02AFE									\talloblong	white vertical bar

11 Ordinary symbols, \mathord

USV	M	X	C	L	D	A	P	E	Macro	Description
00023	#	#	#			#	#	#	\octothorpe	number sign
00024	$	$	$			$	$	$	\mathdollar	dollar sign
00025	%	%	%			%	%	%	\percent	percent sign
00026	&	&	&			&	&	&	\ampersand	ampersand
0002E	.	.	.			.	.	.	\period	full stop, period
0002F	/	/	/			/	/	/	\mathslash	solidus
0003F	?	?	?			?	?	?	\question	question mark
00040	@	@	@			@	@	@	\atsign	commercial at
0005C	\	\	\			\	\	\	\backslash(p)	reverse solidus
000A3	£	£	£			£	£		\sterling	pound sign
000A5	¥	¥	¥			¥	¥		\yen	yen sign
000AC	¬	¬	¬			¬	¬	¬	\neg(p)	/neg /lnot not sign
001B5		Ƶ	Ƶ						\Zbar	impedance (latin capital letter z with stroke)
003D8		Ϙ	Ϙ						\upoldKoppa	greek letter archaic koppa
003D9		ϙ	ϙ						\upoldkoppa	greek small letter archaic koppa
003F6		϶							\upbackepsilon	greek reversed lunate epsilon symbol
02015	—	—	—			—	—		\horizbar	horizontal bar
02017	=	=	=			=	=		\twolowline	double low line (spacing)
02025		‥				‥			\enleadertwodots	double baseline dot (en leader)
02026	…	…	…			…	…	…	\unicodeellipsis	ellipsis (horizontal)
02032	′	′	′			′	′	′	\prime(p)	prime or minute, not superscripted
02033	″	″	″			″	″	″	\dprime	double prime or second, not superscripted
02034	‴	‴	‴			‴	‴	‴	\trprime	triple prime (not superscripted)
02035	‵	‵				‵	‵	‵	\backprime(a)	reverse prime, not superscripted
02036	‶	‶				‶	‶	‶	\backdprime	double reverse prime, not superscripted
02037	‷	‷				‷	‷	‷	\backtrprime	triple reverse prime, not superscripted
02038		‸							\caretinsert	caret (insertion mark)
0203C		‼	‼			‼			\Exclam	double exclamation mark
02043		⁃							\hyphenbullet	rectangle, filled (hyphen bullet)
02047		⁇							\Question	double question mark
02057	⁗	⁗	⁗			⁗	⁗	⁗	\qprime	quadruple prime, not superscripted
020AC	€	€	€			€	€		\euro	euro sign
020DD	◯	◯	◯			◯	◯	◯	\enclosecircle	combining enclosing circle
020DE	□	□	□			□	□		\enclosesquare	combining enclosing square
020DF	◇	◇	◇			◇	◇		\enclosediamond	combining enclosing diamond
020E4	△	△				△	△		\enclosetriangle	combining enclosing upward pointing triangle
02107	Ɛ	Ɛ	Ɛ			Ɛ	Ɛ		\Eulerconst	euler constant
0210E	*h*	*h*	*h*			*h*	*h*	ħ	\Planckconst	planck constant
02127	℧	℧	℧			℧	℧	℧	\mho	conductance
02132		Ⅎ	Ⅎ			Ⅎ			\Finv(a)	turned capital f
0213C	ℼ	ℼ				ℼ	ℼ		\Bbbpi	double-struck small pi
02141		⅁	⅁			⅁			\Game(a)	turned sans-serif capital g
02142		⅂	⅂			⅂			\sansLturned	turned sans-serif capital l
02143		⅃	⅃			⅃			\sansLmirrored	reversed sans-serif capital l
02144		⅄	⅄			⅄			\Yup	turned sans-serif capital y
02145	𝔻	𝔻	𝔻			𝔻	𝔻		\mitBbbD	double-struck italic capital d
02146	𝕕	𝕕	𝕕			𝕕	𝕕		\mitBbbd	double-struck italic small d

usv	M	X	C	L	D	A	P	E	Macro	Description
02147	ℯ	ℯ	ℯ			ℯ	ℯ		\mitBbbe	double-struck italic small e
02148	ⅈ	ⅈ	ⅈ			ⅈ	ⅈ		\mitBbbi	double-struck italic small i
02149	ⅉ	ⅉ	ⅉ			ⅉ	ⅉ		\mitBbbj	double-struck italic small j
0214A		⅋	⅋						\PropertyLine	property line
021A8		↕	↕			↕			\updownarrowbar	up down arrow with base (perpendicular)
021B4	↴	↴	↴			↴	↴		\linefeed	rightwards arrow with corner downwards
021B5	↵	↵	↵			↵	↵		\carriagereturn	downwards arrow with corner leftward = carriage return
021B8		↖	↖			↖			\barovernorthwestarrow	north west arrow to long bar
021B9		↹	↹			↹			\barleftarrowrightarrowbar	leftwards arrow to bar over rightwards arrow to bar
021BA	↺	↺	↺			↺	↺		\acwopencirclearrow	anticlockwise open circle arrow
021BB	↻	↻	↻			↻	↻		\cwopencirclearrow	clockwise open circle arrow
021DE		⇞	⇞			⇞			\nHuparrow	upwards arrow with double stroke
021DF		⇟	⇟			⇟			\nHdownarrow	downwards arrow with double stroke
021E0		⇠	⇠			⇠			\leftdasharrow	leftwards dashed arrow
021E1		⇡	⇡			⇡			\updasharrow	upwards dashed arrow
021E2		⇢	⇢			⇢			\rightdasharrow	rightwards dashed arrow
021E3		⇣	⇣			⇣			\downdasharrow	downwards dashed arrow
021E6	⇦	⇦	⇦			⇦	⇦		\leftwhitearrow	leftwards white arrow
021E7	⇧	⇧	⇧			⇧	⇧		\upwhitearrow	upwards white arrow
021E8	⇨	⇨	⇨			⇨	⇨		\rightwhitearrow	rightwards white arrow
021E9	⇩	⇩	⇩			⇩	⇩		\downwhitearrow	downwards white arrow
021EA		⇪	⇪			⇪			\whitearrowupfrombar	upwards white arrow from bar
02200	∀	∀	∀			∀	∀	∀	\forall(p)	for all
02201	∁	∁	∁			∁	∁		\complement(a)	complement sign
02203	∃	∃	∃			∃	∃	∃	\exists(p)	at least one exists
02204	∄	∄	∄			∄	∄	∄	\nexists(a)	negated exists
02205	∅	∅	∅			∅	∅	∅	\varnothing(a)	circle, slash
02206	∆	∆	∆			∆	∆	∆	\increment	laplacian (delta; nabla^2)
0220E	∎	∎	∎			∎	∎		\QED	end of proof
0221E	∞	∞	∞			∞	∞	∞	\infty(p)	infinity
0221F	∟	∟	∟			∟	∟		\rightangle	right (90 degree) angle
02220	∠	∠	∠			∠	∠		\angle(p)	angle
02221	∡	∡	∡			∡	∡		\measuredangle(a)	angle-measured
02222	∢	∢	∢			∢	∢		\sphericalangle(a)	angle-spherical
02234	∴	∴	∴			∴	∴	∴	\therefore(a)	therefore
02235	∵	∵	∵			∵	∵	∵	\because(a)	because
0223F	∿	∿	∿			∿	∿		\sinewave	sine wave
022A4	⊤	⊤	⊤			⊤	⊤	⊤	\top(p)	top
022A5	⊥	⊥	⊥			⊥	⊥	⊥	\bot(p)	bottom
022B9	⊹	⊹	⊹			⊹	⊹		\hermitmatrix	hermitian conjugate matrix
022BE	⊾	⊾	⊾			⊾	⊾		\measuredrightangle	right angle-measured [with arc]
022BF	◿	◿	◿			◿	◿		\varlrtriangle	right triangle
022EF	⋯	⋯	⋯			⋯	⋯	⋯	\unicodecdots	three dots, centered
02300	⌀	⌀	⌀			⌀	⌀		\diameter	diameter sign
02302		⌂	⌂						\house	house
02310	⌐	⌐	⌐			⌐	⌐		\invnot	reverse not
02311		⌑	⌑						\sqlozenge	square lozenge
02312		⌒	⌒						\profline	profile of a line
02313		⌓	⌓						\profsurf	profile of a surface
02317		⌗	⌗						\viewdata	viewdata square

USV	M	X	C	L	D	A	P	E	Macro	Description
02319									\turnednot	turned not sign
02320									\inttop	top half integral
02321									\intbottom	bottom half integral
0232C									\varhexagonlrbonds	six carbon ring, corner down, double bonds lower right etc
02332									\conictaper	conical taper
02336									\topbot	top and bottom
02340									\APLnotbackslash	apl functional symbol backslash bar
02353									\APLboxupcaret	boxed up caret
02370									\APLboxquestion	boxed question mark
0237C									\rangledownzigzagarrow	right angle with downwards zigzag arrow
02394									\hexagon	horizontal benzene ring [hexagon flat open]
0239B									\lparenuend	left parenthesis upper hook
0239C									\lparenextender	left parenthesis extension
0239D									\lparenlend	left parenthesis lower hook
0239E									\rparenuend	right parenthesis upper hook
0239F									\rparenextender	right parenthesis extension
023A0									\rparenlend	right parenthesis lower hook
023A1									\lbrackuend	left square bracket upper corner
023A2									\lbrackextender	left square bracket extension
023A3									\lbracklend	left square bracket lower corner
023A4									\rbrackuend	right square bracket upper corner
023A5									\rbrackextender	right square bracket extension
023A6									\rbracklend	right square bracket lower corner
023A7									\lbraceuend	left curly bracket upper hook
023A8									\lbracemid	left curly bracket middle piece
023A9									\lbracelend	left curly bracket lower hook
023AA									\vbraceextender	curly bracket extension
023AB									\rbraceuend	right curly bracket upper hook
023AC									\rbracemid	right curly bracket middle piece
023AD									\rbracelend	right curly bracket lower hook
023AE									\intextender	integral extension
023AF									\harrowextender	horizontal line extension (used to extend arrows)
023B2									\sumtop	summation top
023B3									\sumbottom	summation bottom

usv	M	X	C	L	D	A	P	E	Macro	Description
023B6									\bbrktbrk	bottom square bracket over top square bracket
023B7									\sqrtbottom	radical symbol bottom
023B8									\lvboxline	left vertical box line
023B9									\rvboxline	right vertical box line
023CE									\varcarriagereturn	return symbol
023E0									\obrbrak	top tortoise shell bracket (mathematical use)
023E1									\ubrbrak	bottom tortoise shell bracket (mathematical use)
023E2									\trapezium	white trapezium
023E3									\benzenr	benzene ring with circle
023E4									\strns	straightness
023E5									\fltns	flatness
023E6									\accurrent	ac current
023E7									\elinters	electrical intersection
02422									\blanksymbol	blank symbol
02423									\mathvisiblespace	open box
02506									\bdtriplevdash	doubly broken vert
02580									\blockuphalf	upper half block
02584									\blocklowhalf	lower half block
02588									\blockfull	full block
02258C									\blocklefthalf	left half block
02590									\blockrighthalf	right half block
02591									\blockqtrshaded	25% shaded block
02592									\blockhalfshaded	50% shaded block
02593									\blockthreeqtrshaded	75% shaded block
025A0									\mdlgblksquare	square, filled
025A1									\mdlgwhtsquare	square, open
025A2									\squoval	white square with rounded corners
025A3									\blackinwhitesquare	white square containing black small square
025A4									\squarehfill	square, horizontal rule filled
025A5									\squarevfill	square, vertical rule filled
025A6									\squarehvfill	square with orthogonal crosshatch fill
025A7									\squarenwsefill	square, nw-to-se rule filled
025A8									\squareneswfill	square, ne-to-sw rule filled
025A9									\squarecrossfill	square with diagonal crosshatch fill
025AA									\smblksquare	/blacksquare - sq bullet, filled
025AB									\smwhtsquare	white small square
025AC									\hrectangleblack	black rectangle
025AD									\hrectangle	horizontal rectangle, open
025AE									\vrectangleblack	black vertical rectangle
025AF									\vrectangle	rectangle, white (vertical)
025B0									\parallelogramblack	black parallelogram
025B1									\parallelogram	parallelogram, open
025B2									\bigblacktriangleup	0x25b2 6 6d black up-pointing triangle
025B4									\blacktriangle[a]	up triangle, filled
025B6									\blacktriangleright[a]	(large) right triangle, filled
025B8									\smallblacktriangleright	right triangle, filled
025B9									\smalltriangleright	right triangle, open

USV	M	X	C	L	D	A	P	E	Macro	Description
025BA									\blackpointerright	black right-pointing pointer
025BB									\whitepointerright	white right-pointing pointer
025BC									\bigblacktriangledown	big down triangle, filled
025BD									\bigtriangledown[p]	big down triangle, open
025BE									\blacktriangledown[a]	down triangle, filled
025BF									\triangledown[a]	down triangle, open
025C0									\blacktriangleleft[a]	(large) left triangle, filled
025C2									\smallblacktriangleleft	left triangle, filled
025C3									\smalltriangleleft	left triangle, open
025C4									\blackpointerleft	black left-pointing pointer
025C5									\whitepointerleft	white left-pointing pointer
025C6									\mdlgblkdiamond	black diamond
025C7									\mdlgwhtdiamond	white diamond; diamond, open
025C8									\blackinwhitediamond	white diamond containing black small diamond
025C9									\fisheye	fisheye
025CA									\mdlgwhtlozenge	lozenge or total mark
025CC									\dottedcircle	dotted circle
025CD									\circlevertfill	circle with vertical fill
025CE									\bullseye	bullseye
025CF									\mdlgblkcircle	circle, filled
025D0									\circlelefthalfblack	circle, filled left half [harvey ball]
025D1									\circlerighthalfblack	circle, filled right half
025D2									\circlebottomhalfblack	circle, filled bottom half
025D3									\circletophalfblack	circle, filled top half
025D4									\circleurquadblack	circle with upper right quadrant black
025D5									\blackcircleulquadwhite	circle with all but upper left quadrant black
025D6									\blacklefthalfcircle	left half black circle
025D7									\blackrighthalfcircle	right half black circle
025D8									\inversebullet	inverse bullet
025D9									\inversewhitecircle	inverse white circle
025DA									\invwhiteupperhalfcircle	upper half inverse white circle
025DB									\invwhitelowerhalfcircle	lower half inverse white circle
025DC									\ularc	upper left quadrant circular arc
025DD									\urarc	upper right quadrant circular arc
025DE									\lrarc	lower right quadrant circular arc
025DF									\llarc	lower left quadrant circular arc
025E0									\topsemicircle	upper half circle
025E1									\botsemicircle	lower half circle
025E2									\lrblacktriangle	lower right triangle, filled
025E3									\llblacktriangle	lower left triangle, filled
025E4									\ulblacktriangle	upper left triangle, filled
025E5									\urblacktriangle	upper right triangle, filled
025E6									\smwhtcircle	white bullet
025E7									\squareleftblack	square, filled left half
025E8									\squarerightblack	square, filled right half
025E9									\squareulblack	square, filled top left corner
025EA									\squarelrblack	square, filled bottom right corner
025EC									\trianglecdot	triangle with centered dot
025ED									\triangleleftblack	up-pointing triangle with left half black
025EE									\trianglerightblack	up-pointing triangle with right half black

USV	M	X	C	L	D	A	P	E	Macro	Description
025EF									\lgwhtcircle	large circle
025F0									\squareulquad	white square with upper left quadrant
025F1									\squarellquad	white square with lower left quadrant
025F2									\squarelrquad	white square with lower right quadrant
025F3									\squareurquad	white square with upper right quadrant
025F4									\circleulquad	white circle with upper left quadrant
025F5									\circlellquad	white circle with lower left quadrant
025F6									\circlelrquad	white circle with lower right quadrant
025F7									\circleurquad	white circle with upper right quadrant
025F8									\ultriangle	upper left triangle
025F9									\urtriangle	upper right triangle
025FA									\lltriangle	lower left triangle
025FB									\mdwhtsquare	white medium square
025FC									\mdblksquare	black medium square
025FD									\mdsmwhtsquare	white medium small square
025FE									\mdsmblksquare	black medium small square
025FF									\lrtriangle	lower right triangle
02605									\bigstar[a]	star, filled
02606									\bigwhitestar	star, open
02609									\astrosun	sun
02621									\danger	dangerous bend (caution sign)
0263B									\blacksmiley	black smiling face
0263C									\sun	white sun with rays
0263D									\rightmoon	first quarter moon
0263E									\leftmoon	last quarter moon
02640									\female	venus, female
02642									\male	mars, male
02660									\spadesuit[p]	spades suit symbol
02661									\heartsuit[p]	heart suit symbol
02662									\diamondsuit[p]	diamond suit symbol
02663									\clubsuit[p]	club suit symbol
02664									\varspadesuit	spade, white (card suit)
02665									\varheartsuit	filled heart (card suit)
02666									\vardiamondsuit	filled diamond (card suit)
02667									\varclubsuit	club, white (card suit)
02669									\quarternote	music note (sung text sign)
0266A									\eighthnote	eighth note
0266B									\twonotes	beamed eighth notes
0266D									\flat[p]	musical flat
0266E									\natural[p]	music natural
0266F									\sharp[p]	musical sharp
0267E									\acidfree	permanent paper sign
02680									\dicei	die face-1
02681									\diceii	die face-2
02682									\diceiii	die face-3
02683									\diceiv	die face-4
02684									\dicev	die face-5
02685									\dicevi	die face-6
02686									\circledrightdot	white circle with dot right
02687									\circledtwodots	white circle with two dots

USV	M	X	C	L	D	A	P	E	Macro	Description
02688									\blackcircledrightdot	black circle with white dot right
02689									\blackcircledtwodots	black circle with two white dots
026A5									\Hermaphrodite	male and female sign
026AA									\mdwhtcircle	medium white circle
026AB									\mdblkcircle	medium black circle
026AC									\mdsmwhtcircle	medium small white circle
026B2									\neuter	neuter
02713									\checkmark	tick, check mark
02720									\maltese	maltese cross
0272A									\circledstar	circled white star
02736									\varstar	six pointed black star
0273D									\dingasterisk	heavy teardrop-spoked asterisk
0279B									\draftingarrow	right arrow with bold head (drafting)
027C0									\threedangle	three dimensional angle
027C1									\whiteinwhitetriangle	white triangle containing small white triangle
027C3									\subsetcirc	open subset
027C4									\supsetcirc	open superset
027D0									\diamondcdot	white diamond with centred dot
0292B									\rdiagovfdiag	rising diagonal crossing falling diagonal
0292C									\fdiagovrdiag	falling diagonal crossing rising diagonal
0292D									\seovnearrow	south east arrow crossing north east arrow
0292E									\neovsearrow	north east arrow crossing south east arrow
0292F									\fdiagovnearrow	falling diagonal crossing north east arrow
02930									\rdiagovsearrow	rising diagonal crossing south east arrow
02931									\neovnwarrow	north east arrow crossing north west arrow
02932									\nwovnearrow	north west arrow crossing north east arrow
02934									\uprightcurvearrow	arrow pointing rightwards then curving upwards
02935									\downrightcurvedarrow	arrow pointing rightwards then curving downwards
02981									\mdsmblkcircle	z notation spot
02999									\fourvdots	dotted fence
0299A									\vzigzag	vertical zigzag line
0299B									\measuredangleleft	measured angle opening left
0299C									\rightanglesqr	right angle variant with square
0299D									\rightanglemdot	measured right angle with dot
0299E									\angles	angle with s inside
0299F									\angdnr	acute angle
029A0									\gtlpar	spherical angle opening left
029A1									\sphericalangleup	spherical angle opening up
029A2									\turnangle	turned angle
029A3									\revangle	reversed angle
029A4									\angleubar	angle with underbar
029A5									\revangleubar	reversed angle with underbar
029A6									\wideangledown	oblique angle opening up
029A7									\wideangleup	oblique angle opening down
029A8									\measanglerutone	measured angle with open arm ending in arrow pointing up and right
029A9									\measanglelutonw	measured angle with open arm ending in arrow pointing up and left
029AA									\measanglerdtose	measured angle with open arm ending in arrow pointing down and right
029AB									\measangleldtosw	measured angle with open arm ending in arrow pointing down and left

USV	M	X	C	L	D	A	P	E	Macro	Description
029AC									\measangleurtone	measured angle with open arm ending in arrow pointing right and up
029AD									\measangleultonw	measured angle with open arm ending in arrow pointing left and up
029AE									\measangledrtose	measured angle with open arm ending in arrow pointing right and down
029AF									\measangledltosw	measured angle with open arm ending in arrow pointing left and down
029B0									\revemptyset	reversed empty set
029B1									\emptysetobar	empty set with overbar
029B2									\emptysetocirc	empty set with small circle above
029B3									\emptysetoarr	empty set with right arrow above
029B4									\emptysetoarrl	empty set with left arrow above
029BA									\obot	circle divided by horizontal bar and top half divided by vertical bar
029BB									\olcross	circle with superimposed x
029BC									\odotslashdot	circled anticlockwise-rotated division sign
029BD									\uparrowoncircle	up arrow through circle
029BE									\circledwhitebullet	circled white bullet
029BF									\circledbullet	circled bullet
029C2									\cirscir	circle with small circle to the right
029C3									\cirE	circle with two horizontal strokes to the right
029C9									\boxonbox	two joined squares
029CA									\triangleodot	triangle with dot above
029CB									\triangleubar	triangle with underbar
029CC									\triangles	s in triangle
029DC									\iinfin	incomplete infinity
029DD									\tieinfty	tie over infinity
029DE									\nvinfty	infinity negated with vertical bar
029E0									\laplac	square with contoured outline
029E7									\thermod	thermodynamic
029E8									\downtriangleleftblack	down-pointing triangle with left half black
029E9									\downtrianglerightblack	down-pointing triangle with right half black
029EA									\blackdiamonddownarrow	black diamond with down arrow
029EC									\circledownarrow	white circle with down arrow
029ED									\blackcircledownarrow	black circle with down arrow
029EE									\errbarsquare	error-barred white square
029EF									\errbarblacksquare	error-barred black square
029F0									\errbardiamond	error-barred white diamond
029F1									\errbarblackdiamond	error-barred black diamond
029F2									\errbarcircle	error-barred white circle
029F3									\errbarblackcircle	error-barred black circle
02AE1									\perps	perpendicular with s
02AF1									\topcir	down tack with circle below
02B12									\squaretopblack	square with top half black
02B13									\squarebotblack	square with bottom half black
02B14									\squareurblack	square with upper right diagonal half black
02B15									\squarellblack	square with lower left diagonal half black
02B16									\diamondleftblack	diamond with left half black
02B17									\diamondrightblack	diamond with right half black
02B18									\diamondtopblack	diamond with top half black
02B19									\diamondbotblack	diamond with bottom half black

USV	M	X	C	L	D	A	P	E	Macro	Description
02B1A									\dottedsquare	dotted square
02B1B									\lgblksquare	black large square
02B1C									\lgwhtsquare	white large square
02B1D									\vysmblksquare	black very small square
02B1E									\vysmwhtsquare	white very small square
02B1F									\pentagonblack	black pentagon
02B20									\pentagon	white pentagon
02B21									\varhexagon	white hexagon
02B22									\varhexagonblack	black hexagon
02B23									\hexagonblack	horizontal black hexagon
02B24									\lgblkcircle	black large circle
02B25									\mdblkdiamond	black medium diamond
02B26									\mdwhtdiamond	white medium diamond
02B27									\mdblklozenge	black medium lozenge
02B28									\mdwhtlozenge	white medium lozenge
02B29									\smblkdiamond	black small diamond
02B2A									\smblklozenge	black small lozenge
02B2B									\smwhtlozenge	white small lozenge
02B2C									\blkhorzoval	black horizontal ellipse
02B2D									\whthorzoval	white horizontal ellipse
02B2E									\blkvertoval	black vertical ellipse
02B2F									\whtvertoval	white vertical ellipse
02B50									\medwhitestar	white medium star
02B51									\medblackstar	black medium star
02B52									\smwhitestar	white small star
02B53									\rightpentagonblack	black right-pointing pentagon
02B54									\rightpentagon	white right-pointing pentagon
03012									\postalmark	postal mark
03030									\hzigzag	zigzag
1D7CE	0	0	0			0	0	0	\mbfzero	mathematical bold digit 0
1D7CF	1	1	1			1	1	1	\mbfone	mathematical bold digit 1
1D7D0	2	2	2			2	2	2	\mbftwo	mathematical bold digit 2
1D7D1	3	3	3			3	3	3	\mbfthree	mathematical bold digit 3
1D7D2	4	4	4			4	4	4	\mbffour	mathematical bold digit 4
1D7D3	5	5	5			5	5	5	\mbffive	mathematical bold digit 5
1D7D4	6	6	6			6	6	6	\mbfsix	mathematical bold digit 6
1D7D5	7	7	7			7	7	7	\mbfseven	mathematical bold digit 7
1D7D6	8	8	8			8	8	8	\mbfeight	mathematical bold digit 8
1D7D7	9	9	9			9	9	9	\mbfnine	mathematical bold digit 9
1D7D8	0	0	0			0	0		\Bbbzero	mathematical double-struck digit 0
1D7D9	1	1	1			1	1		\Bbbone	mathematical double-struck digit 1
1D7DA	2	2	2			2	2		\Bbbtwo	mathematical double-struck digit 2
1D7DB	3	3	3			3	3		\Bbbthree	mathematical double-struck digit 3
1D7DC	4	4	4			4	4		\Bbbfour	mathematical double-struck digit 4
1D7DD	5	5	5			5	5		\Bbbfive	mathematical double-struck digit 5
1D7DE	6	6	6			6	6		\Bbbsix	mathematical double-struck digit 6
1D7DF	7	7	7			7	7		\Bbbseven	mathematical double-struck digit 7
1D7E0	8	8	8			8	8		\Bbbeight	mathematical double-struck digit 8
1D7E1	9	9	9			9	9		\Bbbnine	mathematical double-struck digit 9
1D7E2	0	0	0			0	0		\msanszero	mathematical sans-serif digit 0

USV	M	X	C	L	D	A	P	E	Macro	Description
1D7E3	1	1	1			1	1		\msansone	mathematical sans-serif digit 1
1D7E4	2	2	2			2	2		\msanstwo	mathematical sans-serif digit 2
1D7E5	3	3	3			3	3		\msansthree	mathematical sans-serif digit 3
1D7E6	4	4	4			4	4		\msansfour	mathematical sans-serif digit 4
1D7E7	5	5	5			5	5		\msansfive	mathematical sans-serif digit 5
1D7E8	6	6	6			6	6		\msanssix	mathematical sans-serif digit 6
1D7E9	7	7	7			7	7		\msansseven	mathematical sans-serif digit 7
1D7EA	8	8	8			8	8		\msanseight	mathematical sans-serif digit 8
1D7EB	9	9	9			9	9		\msansnine	mathematical sans-serif digit 9
1D7EC	**0**	**0**	**0**			**0**	**0**		\mbfsanszero	mathematical sans-serif bold digit 0
1D7ED	**1**	**1**	**1**			**1**	**1**		\mbfsansone	mathematical sans-serif bold digit 1
1D7EE	**2**	**2**	**2**			**2**	**2**		\mbfsanstwo	mathematical sans-serif bold digit 2
1D7EF	**3**	**3**	**3**			**3**	**3**		\mbfsansthree	mathematical sans-serif bold digit 3
1D7F0	**4**	**4**	**4**			**4**	**4**		\mbfsansfour	mathematical sans-serif bold digit 4
1D7F1	**5**	**5**	**5**			**5**	**5**		\mbfsansfive	mathematical sans-serif bold digit 5
1D7F2	**6**	**6**	**6**			**6**	**6**		\mbfsanssix	mathematical sans-serif bold digit 6
1D7F3	**7**	**7**	**7**			**7**	**7**		\mbfsansseven	mathematical sans-serif bold digit 7
1D7F4	**8**	**8**	**8**			**8**	**8**		\mbfsanseight	mathematical sans-serif bold digit 8
1D7F5	**9**	**9**	**9**			**9**	**9**		\mbfsansnine	mathematical sans-serif bold digit 9
1D7F6	0	0	0			0	0		\mttzero	mathematical monospace digit 0
1D7F7	1	1	1			1	1		\mttone	mathematical monospace digit 1
1D7F8	2	2	2			2	2		\mtttwo	mathematical monospace digit 2
1D7F9	3	3	3			3	3		\mttthree	mathematical monospace digit 3
1D7FA	4	4	4			4	4		\mttfour	mathematical monospace digit 4
1D7FB	5	5	5			5	5		\mttfive	mathematical monospace digit 5
1D7FC	6	6	6			6	6		\mttsix	mathematical monospace digit 6
1D7FD	7	7	7			7	7		\mttseven	mathematical monospace digit 7
1D7FE	8	8	8			8	8		\mtteight	mathematical monospace digit 8
1D7FF	9	9	9			9	9		\mttnine	mathematical monospace digit 9

12 Relation symbols, \mathrel

USV	M	X	C	L	D	A	P	E	Macro	Description
0003C	<	<	<			<	<	<	\less	less-than sign r:
0003D	=	=	=			=	=	=	\equal	equals sign r:
0003E	>	>	>			>	>	>	\greater	greater-than sign r:
02050		⁀				⁀			\closure	close up
02190	←	←	←			←	←	←	\leftarrow(p)	/leftarrow /gets a: leftward arrow
02191	↑	↑	↑			↑	↑	↑	\uparrow(p)	upward arrow
02192	→	→	→			→	→	→	\rightarrow(p)	/rightarrow /to a: rightward arrow
02193	↓	↓	↓			↓	↓	↓	\downarrow(p)	downward arrow
02194	↔	↔	↔			↔	↔	↔	\leftrightarrow(p)	left and right arrow
02195	↕	↕	↕			↕	↕	↕	\updownarrow(p)	up and down arrow
02196	↖	↖	↖			↖	↖	↖	\nwarrow(p)	nw pointing arrow
02197	↗	↗	↗			↗	↗	↗	\nearrow(p)	ne pointing arrow
02198	↘	↘	↘			↘	↘	↘	\searrow(p)	se pointing arrow
02199	↙	↙	↙			↙	↙	↙	\swarrow(p)	sw pointing arrow
0219A	↚	↚	↚			↚	↚		\nleftarrow(a)	not left arrow
0219B	↛	↛	↛			↛	↛		\nrightarrow(a)	not right arrow
0219C		↜	↜			↜			\leftwavearrow	left arrow-wavy
0219D		↝	↝			↝			\rightwavearrow	right arrow-wavy
0219E	↞	↞	↞			↞	↞		\twoheadleftarrow(a)	left two-headed arrow
0219F	↟	↟	↟			↟	↟		\twoheaduparrow	up two-headed arrow
021A0	↠	↠	↠			↠	↠		\twoheadrightarrow(a)	right two-headed arrow
021A1	↡	↡	↡			↡	↡		\twoheaddownarrow	down two-headed arrow
021A2	↢	↢	↢			↢	↢		\leftarrowtail(a)	left arrow-tailed
021A3	↣	↣	↣			↣	↣		\rightarrowtail(a)	right arrow-tailed
021A4	↤	↤	↤			↤	↤	↤	\mapsfrom	maps to, leftward
021A5	↥	↥	↥			↥	↥		\mapsup	maps to, upward
021A6	↦	↦	↦			↦	↦	↦	\mapsto(p)	maps to, rightward
021A7	↧	↧	↧			↧	↧		\mapsdown	maps to, downward
021A9	↩	↩	↩			↩	↩	↩	\hookleftarrow(p)	left arrow-hooked
021AA	↪	↪	↪			↪	↪	↪	\hookrightarrow(p)	right arrow-hooked
021AB	↫	↫	↫			↫	↫		\looparrowleft(a)	left arrow-looped
021AC	↬	↬	↬			↬	↬		\looparrowright(a)	right arrow-looped
021AD	↭	↭	↭			↭	↭		\leftrightsquigarrow(a)	left and right arr-wavy
021AE	↮	↮	↮			↮	↮		\nleftrightarrow(a)	not left and right arrow
021AF		↯	↯			↯			\downzigzagarrow	downwards zigzag arrow
021B0	↰	↰	↰			↰	↰		\Lsh(a)	/lsh a:
021B1	↱	↱	↱			↱	↱		\Rsh(a)	/rsh a:
021B2	↲	↲	↲			↲	↲		\Ldsh	left down angled arrow
021B3	↳	↳	↳			↳	↳		\Rdsh	right down angled arrow
021B6	↶	↶	↶			↶	↶		\curvearrowleft(a)	left curved arrow
021B7	↷	↷	↷			↷	↷		\curvearrowright(a)	right curved arrow
021BC	↼	↼	↼			↼	↼	↼	\leftharpoonup(p)	left harpoon-up
021BD	↽	↽	↽			↽	↽	↽	\leftharpoondown(p)	left harpoon-down
021BE	↾	↾	↾			↾	↾	↾	\upharpoonright(a)	/upharpoonright /restriction a: up harpoon-right
021BF	↿	↿	↿			↿	↿	↿	\upharpoonleft(a)	up harpoon-left
021C0	⇀	⇀	⇀			⇀	⇀	⇀	\rightharpoonup(p)	right harpoon-up
021C1	⇁	⇁	⇁			⇁	⇁	⇁	\rightharpoondown(p)	right harpoon-down

USV	M	X	C	L	D	A	P	E	Macro	Description
021C2									\downharpoonright[a]	down harpoon-right
021C3									\downharpoonleft[a]	down harpoon-left
021C4									\rightleftarrows[a]	right arrow over left arrow
021C5									\updownarrows	up arrow, down arrow
021C6									\leftrightarrows[a]	left arrow over right arrow
021C7									\leftleftarrows[a]	two left arrows
021C8									\upuparrows[a]	two up arrows
021C9									\rightrightarrows[a]	two right arrows
021CA									\downdownarrows[a]	two down arrows
021CB									\leftrightharpoons[a]	left harpoon over right
021CC									\rightleftharpoons	right harpoon over left
021CD									\nLeftarrow[a]	not implied by
021CE									\nLeftrightarrow[a]	not left and right double arrows
021CF									\nRightarrow[a]	not implies
021D0									\Leftarrow[p]	is implied by
021D1									\Uparrow[p]	up double arrow
021D2									\Rightarrow[p]	implies
021D3									\Downarrow[p]	down double arrow
021D4									\Leftrightarrow[p]	left and right double arrow
021D5									\Updownarrow[p]	up and down double arrow
021D6									\Nwarrow	nw pointing double arrow
021D7									\Nearrow	ne pointing double arrow
021D8									\Searrow	se pointing double arrow
021D9									\Swarrow	sw pointing double arrow
021DA									\Lleftarrow[a]	left triple arrow
021DB									\Rrightarrow[a]	right triple arrow
021DC									\leftsquigarrow	leftwards squiggle arrow
021DD									\rightsquigarrow[a]	rightwards squiggle arrow
021E4									\barleftarrow	leftwards arrow to bar
021E5									\rightarrowbar	rightwards arrow to bar
021F4									\circleonrightarrow	right arrow with small circle
021F5									\downuparrows	downwards arrow leftwards of upwards arrow
021F6									\rightthreearrows	three rightwards arrows
021F7									\nvleftarrow	leftwards arrow with vertical stroke
021F8									\nvrightarrow	rightwards arrow with vertical stroke
021F9									\nvleftrightarrow	left right arrow with vertical stroke
021FA									\nVleftarrow	leftwards arrow with double vertical stroke
021FB									\nVrightarrow	rightwards arrow with double vertical stroke
021FC									\nVleftrightarrow	left right arrow with double vertical stroke
021FD									\leftarrowtriangle	leftwards open-headed arrow
021FE									\rightarrowtriangle	rightwards open-headed arrow
021FF									\leftrightarrowtriangle	left right open-headed arrow
02208									\in[p]	set membership, variant
02209									\notin	negated set membership
0220A									\smallin	set membership (small set membership)
0220B									\ni[p]	contains, variant
0220C									\nni	negated contains, variant
0220D									\smallni	/ni /owns r: contains (small contains as member)
0221D									\propto[p]	is proportional to
02223									\mid[p]	/mid r:

USV	M	X	C	L	D	A	P	E	Macro	Description
02224	∤	∤	∤			∤	∤		\nmid[a]	negated mid
02225	∥	∥	∥			∥	∥	∥	\parallel[p]	parallel
02226	∦	∦	∦			∦	∦		\nparallel[a]	not parallel
02236	∶	∶	∶			∶	∶	∶	\mathratio	ratio
02237	∷	∷	∷			∷	∷	∷	\Colon	two colons
02239	−∶	−∶	−∶			−∶	−∶	−∶	\dashcolon	excess (-:)
0223A	∺	∺	∺			∺	∺	∺	\dotsminusdots	minus with four dots, geometric properties
0223B	∻	∻	∻			∻	∻	÷	\kernelcontraction	homothetic
0223C	∼	∼	∼			∼	∼	∼	\sim[p]	similar
0223D	∽	∽	∽			∽	∽	∽	\backsim[a]	reverse similar
02241	≁	≁	≁			≁	≁	≁	\nsim[a]	not similar
02242	≂	≂	≂			≂	≂	≂	\eqsim[a]	equals, similar
02243	≃	≃	≃			≃	≃	≃	\simeq[p]	similar, equals
02244	≄	≄	≄			≄	≄	≄	\nsime	not similar, equals
02245	≅	≅	≅			≅	≅	≅	\cong	congruent with
02246	≆	≆	≆			≆	≆	≆	\simneqq	similar, not equals [vert only for 9573 entity]
02247	≇	≇	≇			≇	≇	≇	\ncong[a]	not congruent with
02248	≈	≈	≈			≈	≈	≈	\approx[p]	approximate
02249	≉	≉	≉			≉	≉	≉	\napprox	not approximate
0224A	≊	≊	≊			≊	≊	≊	\approxeq[a]	approximate, equals
0224B	≋	≋	≋			≋	≋	≋	\approxident	approximately identical to
0224C	≌	≌	≌			≌	≌	≌	\backcong	all equal to
0224D	≍	≍	≍			≍	≍		\asymp[p]	asymptotically equal to
0224E	≎	≎	≎			≎	≎		\Bumpeq[a]	bumpy equals
0224F	≏	≏	≏			≏	≏		\bumpeq[a]	bumpy equals, equals
02250	≐	≐	≐			≐	≐		\doteq	equals, single dot above
02251	≑	≑	≑			≑	≑		\Doteq[a]	/doteqdot /doteq r: equals, even dots
02252	≒	≒	≒			≒	≒		\fallingdotseq[a]	equals, falling dots
02253	≓	≓	≓			≓	≓		\risingdotseq[a]	equals, rising dots
02254	≔	≔	≔			≔	≔		\coloneq	colon, equals
02255	≕	≕	≕			≕	≕		\eqcolon	equals, colon
02256	≖	≖	≖			≖	≖		\eqcirc[a]	circle on equals sign
02257	≗	≗	≗			≗	≗		\circeq[a]	circle, equals
02258	≘	≘	≘			≘	≘		\arceq	arc, equals; corresponds to
02259	≙	≙	≙			≙	≙		\wedgeq	corresponds to (wedge, equals)
0225A	≚	≚	≚			≚	≚		\veeeq	logical or, equals
0225B	≛	≛	≛			≛	≛		\stareq	star equals
0225C	≜	≜	≜			≜	≜		\triangleq[a]	triangle, equals
0225D	≝	≝	≝			≝	≝		\eqdef	equals by definition
0225E	≞	≞	≞			≞	≞		\measeq	measured by (m over equals)
0225F	≟	≟	≟			≟	≟		\questeq	equal with questionmark
02260	≠	≠	≠			≠	≠	≠	\ne[p]	/ne /neq r: not equal
02261	≡	≡	≡			≡	≡	≡	\equiv[p]	identical with
02262	≢	≢	≢			≢	≢	≢	\nequiv	not identical with
02263	≣	≣	≣			≣	≣	≣	\Equiv	strict equivalence (4 lines)
02264	≤	≤	≤			≤	≤	⩽	\leq[p]	/leq /le r: less-than-or-equal
02265	≥	≥	≥			≥	≥	⩾	\geq[p]	/geq /ge r: greater-than-or-equal
02266	≦	≦	≦			≦	≦	≦	\leqq[a]	less, double equals
02267	≧	≧	≧			≧	≧	≧	\geqq[a]	greater, double equals
02268	≨	≨	≨			≨	≨	≨	\lneqq[a]	less, not double equals

USV	M	X	C	L	D	A	P	E	Macro	Description
02269	≩	≩	≩			≩	≩	≩	\gneqq[a]	greater, not double equals
0226A	≪	≪	≪			≪	≪		\ll[p]	much less than, type 2
0226B	≫	≫	≫			≫	≫		\gg[p]	much greater than, type 2
0226C	≬	≬	≬			≬	≬		\between[a]	between
0226D	≭	≭	≭			≭	≭		\nasymp	not asymptotically equal to
0226E	≮	≮	≮			≮	≮	≮	\nless[a]	not less-than
0226F	≯	≯	≯			≯	≯	≯	\ngtr[a]	not greater-than
02270	≰	≰	≰			≰	≰	≰	\nleq[a]	not less-than-or-equal
02271	≱	≱	≱			≱	≱	≱	\ngeq[a]	not greater-than-or-equal
02272	≲	≲	≲			≲	≲	≲	\lesssim[a]	less, similar
02273	≳	≳	≳			≳	≳	≳	\gtrsim[a]	greater, similar
02274	≴	≴	≴			≴	≴	≴	\nlesssim	not less, similar
02275	≵	≵	≵			≵	≵	≵	\ngtrsim	not greater, similar
02276	≶	≶	≶			≶	≶	≶	\lessgtr[a]	less, greater
02277	≷	≷	≷			≷	≷	≷	\gtrless[a]	greater, less
02278	≸	≸	≸			≸	≸	≸	\nlessgtr	not less, greater
02279	≹	≹	≹			≹	≹	≹	\ngtrless	not greater, less
0227A	≺	≺	≺			≺	≺		\prec[p]	precedes
0227B	≻	≻	≻			≻	≻		\succ[p]	succeeds
0227C	≼	≼	≼			≼	≼		\preccurlyeq[a]	precedes, curly equals
0227D	≽	≽	≽			≽	≽		\succcurlyeq[a]	succeeds, curly equals
0227E	≾	≾	≾			≾	≾		\precsim[a]	precedes, similar
0227F	≿	≿	≿			≿	≿		\succsim[a]	succeeds, similar
02280	⊀	⊀	⊀			⊀	⊀		\nprec[a]	not precedes
02281	⊁	⊁	⊁			⊁	⊁		\nsucc[a]	not succeeds
02282	⊂	⊂	⊂			⊂	⊂	⊂	\subset[p]	subset or is implied by
02283	⊃	⊃	⊃			⊃	⊃	⊃	\supset[p]	superset or implies
02284	⊄	⊄	⊄			⊄	⊄	⊄	\nsubset	not subset, variant [slash negation]
02285	⊅	⊅	⊅			⊅	⊅	⊅	\nsupset	not superset, variant [slash negation]
02286	⊆	⊆	⊆			⊆	⊆	⊆	\subseteq[p]	subset, equals
02287	⊇	⊇	⊇			⊇	⊇	⊇	\supseteq[p]	superset, equals
02288	⊈	⊈	⊈			⊈	⊈	⊈	\nsubseteq[a]	not subset, equals
02289	⊉	⊉	⊉			⊉	⊉	⊉	\nsupseteq[a]	not superset, equals
0228A	⊊	⊊	⊊			⊊	⊊	⊊	\subsetneq[a]	subset, not equals
0228B	⊋	⊋	⊋			⊋	⊋	⊋	\supsetneq[a]	superset, not equals
0228F	⊏	⊏	⊏			⊏	⊏		\sqsubset	square subset
02290	⊐	⊐	⊐			⊐	⊐		\sqsupset	square superset
02291	⊑	⊑	⊑			⊑	⊑	⊑	\sqsubseteq[p]	square subset, equals
02292	⊒	⊒	⊒			⊒	⊒	⊒	\sqsupseteq[p]	square superset, equals
022A2	⊢	⊢	⊢			⊢	⊢	⊢	\vdash[p]	vertical, dash
022A3	⊣	⊣	⊣			⊣	⊣	⊣	\dashv[p]	dash, vertical
022A6	⊦	⊦	⊦			⊦	⊦		\assert	assertion (vertical, short dash)
022A7	⊧	⊧	⊧			⊧	⊧		\models[p]	models (vertical, short double dash)
022A8	⊨	⊨	⊨			⊨	⊨		\vDash[a]	vertical, double dash
022A9	⊩	⊩	⊩			⊩	⊩		\Vdash[a]	double vertical, dash
022AA	⊪	⊪	⊪			⊪	⊪		\Vvdash[a]	triple vertical, dash
022AB	⊫	⊫	⊫			⊫	⊫		\VDash	double vert, double dash
022AC	⊬	⊬	⊬			⊬	⊬		\nvdash[a]	not vertical, dash
022AD	⊭	⊭	⊭			⊭	⊭		\nvDash[a]	not vertical, double dash
022AE	⊮	⊮	⊮			⊮	⊮		\nVdash[a]	not double vertical, dash

USV	M	X	C	L	D	A	P	E	Macro	Description
022AF									\nVDash[a]	not double vert, double dash
022B0									\prurel	element precedes under relation
022B1									\scurel	succeeds under relation
022B2									\vartriangleleft[a]	left triangle, open, variant
022B3									\vartriangleright[a]	right triangle, open, variant
022B4									\trianglelefteq[a]	left triangle, equals
022B5									\trianglerighteq[a]	right triangle, equals
022B6									\origof	original of
022B7									\imageof	image of
022B8									\multimap[a]	/multimap a:
022C8									\bowtie[p]	bowtie
022CD									\backsimeq[a]	reverse similar, equals
022D0									\Subset[a]	double subset
022D1									\Supset[a]	double superset
022D4									\pitchfork[a]	pitchfork
022D5									\equalparallel	parallel, equal; equal or parallel
022D6									\lessdot[a]	less than, with dot
022D7									\gtrdot[a]	greater than, with dot
022D8									\lll[a]	/ll /lll /llless r: triple less-than
022D9									\ggg[a]	/ggg /gg /gggtr r: triple greater-than
022DA									\lesseqgtr[a]	less, equals, greater
022DB									\gtreqless[a]	greater, equals, less
022DC									\eqless	equal-or-less
022DD									\eqgtr	equal-or-greater
022DE									\curlyeqprec[a]	curly equals, precedes
022DF									\curlyeqsucc[a]	curly equals, succeeds
022E0									\npreccurlyeq	not precedes, curly equals
022E1									\nsucccurlyeq	not succeeds, curly equals
022E2									\nsqsubseteq	not, square subset, equals
022E3									\nsqsupseteq	not, square superset, equals
022E4									\sqsubsetneq	square subset, not equals
022E5									\sqsupsetneq	square superset, not equals
022E6									\lnsim[a]	less, not similar
022E7									\gnsim[a]	greater, not similar
022E8									\precnsim[a]	precedes, not similar
022E9									\succnsim[a]	succeeds, not similar
022EA									\nvartriangleleft	not left triangle
022EB									\nvartriangleright	not right triangle
022EC									\ntrianglelefteq[a]	not left triangle, equals
022ED									\ntrianglerighteq[a]	not right triangle, equals
022EE									\vdots[p]	vertical ellipsis
022F0									\adots	three dots, ascending
022F1									\ddots[p]	three dots, descending
022F2									\disin	element of with long horizontal stroke
022F3									\varisins	element of with vertical bar at end of horizontal stroke
022F4									\isins	small element of with vertical bar at end of horizontal stroke
022F5									\isindot	element of with dot above
022F6									\varisinobar	element of with overbar
022F7									\isinobar	small element of with overbar
022F8									\isinvb	element of with underbar

USV	M	X	C	L	D	A	P	E	Macro	Description
022F9									\isinE	element of with two horizontal strokes
022FA									\nisd	contains with long horizontal stroke
022FB									\varnis	contains with vertical bar at end of horizontal stroke
022FC									\nis	small contains with vertical bar at end of horizontal stroke
022FD									\varniobar	contains with overbar
022FE									\niobar	small contains with overbar
022FF									\bagmember	z notation bag membership
02322									\frown(p)	down curve
02323									\smile(p)	up curve
0233F									\APLnotslash	solidus, bar through (apl functional symbol slash bar)
025B5									\vartriangle(a)	/triangle - up triangle, open
027C2									\perp(p)	perpendicular
027C8									\bsolhsub	reverse solidus preceding subset
027C9									\suphsol	superset preceding solidus
027D2									\upin	element of opening upwards
027D3									\pullback	lower right corner with dot
027D4									\pushout	upper left corner with dot
027DA									\DashVDash	left and right double turnstile
027DB									\dashVdash	left and right tack
027DC									\multimapinv	left multimap
027DD									\vlongdash	long left tack
027DE									\longdashv	long right tack
027DF									\cirbot	up tack with circle above
027F0									\UUparrow	upwards quadruple arrow
027F1									\DDownarrow	downwards quadruple arrow
027F2									\acwgapcirclearrow	anticlockwise gapped circle arrow
027F3									\cwgapcirclearrow	clockwise gapped circle arrow
027F4									\rightarrowonoplus	right arrow with circled plus
027F5									\longleftarrow(p)	long leftwards arrow
027F6									\longrightarrow(p)	long rightwards arrow
027F7									\longleftrightarrow(p)	long left right arrow
027F8									\Longleftarrow(p)	long leftwards double arrow
027F9									\Longrightarrow(p)	long rightwards double arrow
027FA									\Longleftrightarrow(p)	long left right double arrow
027FB									\longmapsfrom	long leftwards arrow from bar
027FC									\longmapsto(p)	long rightwards arrow from bar
027FD									\Longmapsfrom	long leftwards double arrow from bar
027FE									\Longmapsto	long rightwards double arrow from bar
027FF									\longrightsquigarrow	long rightwards squiggle arrow
02900									\nvtwoheadrightarrow	rightwards two-headed arrow with vertical stroke
02901									\nVtwoheadrightarrow	rightwards two-headed arrow with double vertical stroke
02902									\nvLeftarrow	leftwards double arrow with vertical stroke
02903									\nvRightarrow	rightwards double arrow with vertical stroke
02904									\nvLeftrightarrow	left right double arrow with vertical stroke
02905									\twoheadmapsto	rightwards two-headed arrow from bar
02906									\Mapsfrom	leftwards double arrow from bar
02907									\Mapsto	rightwards double arrow from bar
02908									\downarrowbarred	downwards arrow with horizontal stroke
02909									\uparrowbarred	upwards arrow with horizontal stroke

USV	M	X	C	L	D	A	P	E	Macro	Description
0290A									\Uuparrow	upwards triple arrow
0290B									\Ddownarrow	downwards triple arrow
0290C									\leftbkarrow	leftwards double dash arrow
0290D									\rightbkarrow	rightwards double dash arrow
0290E									\leftdbkarrow	leftwards triple dash arrow
0290F									\dbkarow	rightwards triple dash arrow
02910									\drbkarow	rightwards two-headed triple dash arrow
02911									\rightdotarrow	rightwards arrow with dotted stem
02912									\baruparrow	upwards arrow to bar
02913									\downarrowbar	downwards arrow to bar
02914									\nvrightarrowtail	rightwards arrow with tail with vertical stroke
02915									\nVrightarrowtail	rightwards arrow with tail with double vertical stroke
02916									\twoheadrightarrowtail	rightwards two-headed arrow with tail
02917									\nvtwoheadrightarrowtail	rightwards two-headed arrow with tail with vertical stroke
02918									\nVtwoheadrightarrowtail	rightwards two-headed arrow with tail with double vertical stroke
02919									\lefttail	leftwards arrow-tail
0291A									\righttail	rightwards arrow-tail
0291B									\leftdbltail	leftwards double arrow-tail
0291C									\rightdbltail	rightwards double arrow-tail
0291D									\diamondleftarrow	leftwards arrow to black diamond
0291E									\rightarrowdiamond	rightwards arrow to black diamond
0291F									\diamondleftarrowbar	leftwards arrow from bar to black diamond
02920									\barrightarrowdiamond	rightwards arrow from bar to black diamond
02921									\nwsearrow	north west and south east arrow
02922									\neswarrow	north east and south west arrow
02923									\hknwarrow	north west arrow with hook
02924									\hknearrow	north east arrow with hook
02925									\hksearow	south east arrow with hook
02926									\hkswarow	south west arrow with hook
02927									\tona	north west arrow and north east arrow
02928									\toea	north east arrow and south east arrow
02929									\tosa	south east arrow and south west arrow
0292A									\towa	south west arrow and north west arrow
02933									\rightcurvedarrow	wave arrow pointing directly right
02936									\leftdowncurvedarrow	arrow pointing downwards then curving leftwards
02937									\rightdowncurvedarrow	arrow pointing downwards then curving rightwards
02938									\cwrightarcarrow	right-side arc clockwise arrow
02939									\acwleftarcarrow	left-side arc anticlockwise arrow
0293A									\acwoverarcarrow	top arc anticlockwise arrow
0293B									\acwunderarcarrow	bottom arc anticlockwise arrow
0293C									\curvearrowrightminus	top arc clockwise arrow with minus
0293D									\curvearrowleftplus	top arc anticlockwise arrow with plus
0293E									\cwundercurvearrow	lower right semicircular clockwise arrow
0293F									\ccwundercurvearrow	lower left semicircular anticlockwise arrow
02940									\acwcirclearrow	anticlockwise closed circle arrow
02941									\cwcirclearrow	clockwise closed circle arrow
02942									\rightarrowshortleftarrow	rightwards arrow above short leftwards arrow
02943									\leftarrowshortrightarrow	leftwards arrow above short rightwards arrow
02944									\shortrightarrowleftarrow	short rightwards arrow above leftwards arrow

USV	M	X	C	L	D	A	P	E	Macro	Description
02945									\rightarrowplus	rightwards arrow with plus below
02946									\leftarrowplus	leftwards arrow with plus below
02947									\rightarrowx	rightwards arrow through x
02948									\leftrightarrowcircle	left right arrow through small circle
02949									\twoheaduparrowcircle	upwards two-headed arrow from small circle
0294A									\leftrightharpoonupdown	left barb up right barb down harpoon
0294B									\leftrightharpoondownup	left barb down right barb up harpoon
0294C									\updownharpoonrightleft	up barb right down barb left harpoon
0294D									\updownharpoonleftright	up barb left down barb right harpoon
0294E									\leftrightharpoonupup	left barb up right barb up harpoon
0294F									\updownharpoonrightright	up barb right down barb right harpoon
02950									\leftrightharpoondowndown	left barb down right barb down harpoon
02951									\updownharpoonleftleft	up barb left down barb left harpoon
02952									\barleftharpoonup	leftwards harpoon with barb up to bar
02953									\rightharpoonupbar	rightwards harpoon with barb up to bar
02954									\barupharpoonright	upwards harpoon with barb right to bar
02955									\downharpoonrightbar	downwards harpoon with barb right to bar
02956									\barleftharpoondown	leftwards harpoon with barb down to bar
02957									\rightharpoondownbar	rightwards harpoon with barb down to bar
02958									\barupharpoonleft	upwards harpoon with barb left to bar
02959									\downharpoonleftbar	downwards harpoon with barb left to bar
0295A									\leftharpoonupbar	leftwards harpoon with barb up from bar
0295B									\barrightharpoonup	rightwards harpoon with barb up from bar
0295C									\upharpoonrightbar	upwards harpoon with barb right from bar
0295D									\bardownharpoonright	downwards harpoon with barb right from bar
0295E									\leftharpoondownbar	leftwards harpoon with barb down from bar
0295F									\barrightharpoondown	rightwards harpoon with barb down from bar
02960									\upharpoonleftbar	upwards harpoon with barb left from bar
02961									\bardownharpoonleft	downwards harpoon with barb left from bar
02962									\leftharpoonsupdown	leftwards harpoon with barb up above leftwards harpoon with barb down
02963									\upharpoonsleftright	upwards harpoon with barb left beside upwards harpoon with barb right
02964									\rightharpoonsupdown	rightwards harpoon with barb up above rightwards harpoon with barb down
02965									\downharpoonsleftright	downwards harpoon with barb left beside downwards harpoon with barb right
02966									\leftrightharpoonsup	leftwards harpoon with barb up above rightwards harpoon with barb up
02967									\leftrightharpoonsdown	leftwards harpoon with barb down above rightwards harpoon with barb down
02968									\rightleftharpoonsup	rightwards harpoon with barb up above leftwards harpoon with barb up
02969									\rightleftharpoonsdown	rightwards harpoon with barb down above leftwards harpoon with barb down
0296A									\leftharpoonupdash	leftwards harpoon with barb up above long dash
0296B									\dashleftharpoondown	leftwards harpoon with barb down below long dash
0296C									\rightharpoonupdash	rightwards harpoon with barb up above long dash
0296D									\dashrightharpoondown	rightwards harpoon with barb down below long dash
0296E									\updownharpoonsleftright	upwards harpoon with barb left beside downwards harpoon with barb right
0296F									\downupharpoonsleftright	downwards harpoon with barb left beside upwards harpoon with barb right
02970									\rightimply	right double arrow with rounded head
02971									\equalrightarrow	equals sign above rightwards arrow

USV	M	X	C	L	D	A	P	E	Macro	Description
02972		⥲	⥲			⥲			\similarrightarrow	tilde operator above rightwards arrow
02973		⥳	⥳			⥳			\leftarrowsimilar	leftwards arrow above tilde operator
02974		⥴	⥴			⥴			\rightarrowsimilar	rightwards arrow above tilde operator
02975		⥵	⥵			⥵			\rightarrowapprox	rightwards arrow above almost equal to
02976		⥶	⥶			⥶			\ltlarr	less-than above leftwards arrow
02977		⥷	⥷			⥷			\leftarrowless	leftwards arrow through less-than
02978		⥸	⥸			⥸			\gtrarr	greater-than above rightwards arrow
02979		⥹	⥹			⥹			\subrarr	subset above rightwards arrow
0297A		⥺	⥺			⥺			\leftarrowsubset	leftwards arrow through subset
0297B		⥻	⥻			⥻			\suplarr	superset above leftwards arrow
0297C		⥼	⥼			⥼			\leftfishtail	left fish tail
0297D		⥽	⥽			⥽			\rightfishtail	right fish tail
0297E		⥾	⥾			⥾			\upfishtail	up fish tail
0297F		⥿	⥿			⥿			\downfishtail	down fish tail
029CE		⧎	⧎			⧎			\rtriltri	right triangle above left triangle
029CF		⧏	⧏			⧏			\ltrivb	left triangle beside vertical bar
029D0		⧐	⧐			⧐			\vbrtri	vertical bar beside right triangle
029D1		⧑	⧑			⧑			\lfbowtie	left black bowtie
029D2		⧒	⧒			⧒			\rfbowtie	right black bowtie
029D3		⧓	⧓			⧓			\fbowtie	black bowtie
029D4		⧔	⧔			⧔			\lftimes	left black times
029D5		⧕	⧕			⧕			\rftimes	right black times
029DF		⧟	⧟			⧟			\dualmap	double-ended multimap
029E1		⧡	⧡			⧡			\lrtriangleeq	increases as
029E3		⧣	⧣			⧣			\eparsl	equals sign and slanted parallel
029E4		⧤	⧤			⧤			\smeparsl	equals sign and slanted parallel with tilde above
029E5		⧥	⧥			⧥			\eqvparsl	identical to and slanted parallel
029E6		⧦	⧦			⧦			\gleichstark	gleich stark
029F4		⧴	⧴			⧴			\ruledelayed	rule-delayed
02A59		⩙	⩙			⩙			\veeonwedge	logical or overlapping logical and
02A66		⩦	⩦			⩦			\eqdot	equals sign with dot below
02A67		⩧	⩧			⩧			\dotequiv	identical with dot above
02A68		⩨	⩨			⩨			\equivVert	triple horizontal bar with double vertical stroke
02A69		⩩	⩩			⩩			\equivVvert	triple horizontal bar with triple vertical stroke
02A6A		⩪	⩪			⩪			\dotsim	tilde operator with dot above
02A6B		⩫	⩫			⩫			\simrdots	tilde operator with rising dots
02A6C		⩬	⩬			⩬			\simminussim	similar minus similar
02A6D		⩭	⩭			⩭			\congdot	congruent with dot above
02A6E		⩮	⩮			⩮			\asteq	equals with asterisk
02A6F		⩯	⩯			⩯			\hatapprox	almost equal to with circumflex accent
02A70		⩰	⩰			⩰			\approxeqq	approximately equal or equal to
02A73		⩳	⩳			⩳			\eqqsim	equals sign above tilde operator
02A74		⩴	⩴			⩴			\Coloneq	double colon equal
02A75		⩵	⩵			⩵			\eqeq	two consecutive equals signs
02A76		⩶	⩶			⩶			\eqeqeq	three consecutive equals signs
02A77		⩷	⩷			⩷			\ddotseq	equals sign with two dots above and two dots below
02A78		⩸	⩸			⩸			\equivDD	equivalent with four dots above
02A79		⩹	⩹			⩹			\ltcir	less-than with circle inside
02A7A		⩺	⩺			⩺			\gtcir	greater-than with circle inside
02A7B		⩻	⩻			⩻			\ltquest	less-than with question mark above

USV	M	X	C	L	D	A	P	E	Macro	Description
02A7C									\gtquest	greater-than with question mark above
02A7D									\leqslant[a]	less-than or slanted equal to
02A7E									\geqslant[a]	greater-than or slanted equal to
02A7F									\lesdot	less-than or slanted equal to with dot inside
02A80									\gesdot	greater-than or slanted equal to with dot inside
02A81									\lesdoto	less-than or slanted equal to with dot above
02A82									\gesdoto	greater-than or slanted equal to with dot above
02A83									\lesdotor	less-than or slanted equal to with dot above right
02A84									\gesdotol	greater-than or slanted equal to with dot above left
02A85									\lessapprox[a]	less-than or approximate
02A86									\gtrapprox[a]	greater-than or approximate
02A87									\lneq[a]	less-than and single-line not equal to
02A88									\gneq[a]	greater-than and single-line not equal to
02A89									\lnapprox[a]	less-than and not approximate
02A8A									\gnapprox[a]	greater-than and not approximate
02A8B									\lesseqqgtr[a]	less-than above double-line equal above greater-than
02A8C									\gtreqqless[a]	greater-than above double-line equal above less-than
02A8D									\lsime	less-than above similar or equal
02A8E									\gsime	greater-than above similar or equal
02A8F									\lsimg	less-than above similar above greater-than
02A90									\gsiml	greater-than above similar above less-than
02A91									\lgE	less-than above greater-than above double-line equal
02A92									\glE	greater-than above less-than above double-line equal
02A93									\lesges	less-than above slanted equal above greater-than above slanted equal
02A94									\gesles	greater-than above slanted equal above less-than above slanted equal
02A95									\eqslantless[a]	slanted equal to or less-than
02A96									\eqslantgtr[a]	slanted equal to or greater-than
02A97									\elsdot	slanted equal to or less-than with dot inside
02A98									\egsdot	slanted equal to or greater-than with dot inside
02A99									\eqqless	double-line equal to or less-than
02A9A									\eqqgtr	double-line equal to or greater-than
02A9B									\eqqslantless	double-line slanted equal to or less-than
02A9C									\eqqslantgtr	double-line slanted equal to or greater-than
02A9D									\simless	similar or less-than
02A9E									\simgtr	similar or greater-than
02A9F									\simlE	similar above less-than above equals sign
02AA0									\simgE	similar above greater-than above equals sign
02AA1									\Lt	double nested less-than
02AA2									\Gt	double nested greater-than
02AA3									\partialmeetcontraction	double less-than with underbar
02AA4									\glj	greater-than overlapping less-than
02AA5									\gla	greater-than beside less-than
02AA6									\ltcc	less-than closed by curve
02AA7									\gtcc	greater-than closed by curve
02AA8									\lescc	less-than closed by curve above slanted equal
02AA9									\gescc	greater-than closed by curve above slanted equal
02AAA									\smt	smaller than
02AAB									\lat	larger than

USV	M	X	C	L	D	A	P	E	Macro	Description
02AAC		⪅	⪅			⪅			\smte	smaller than or equal to
02AAD		⪆	⪆			⪆			\late	larger than or equal to
02AAE		⪮	⪮			⪮			\bumpeqq	equals sign with bumpy above
02AAF	⪯̸	⪯	⪯			⪯	⪯		\preceq[p]	precedes above single-line equals sign
02AB0	⪰̸	⪰	⪰			⪰	⪰		\succeq[p]	succeeds above single-line not equal to
02AB1		⪱	⪱			⪱			\precneq	precedes above single-line not equal to
02AB2		⪲	⪲			⪲			\succneq	succeeds above single-line not equal to
02AB3		⪳	⪳			⪳			\preceqq	precedes above equals sign
02AB4		⪴	⪴			⪴			\succeqq	succeeds above equals sign
02AB5		⪵	⪵			⪵			\precneqq[a]	precedes above not equal to
02AB6		⪶	⪶			⪶			\succneqq[a]	succeeds above not equal to
02AB7		⪷	⪷			⪷			\precapprox[a]	precedes above almost equal to
02AB8		⪸	⪸			⪸			\succapprox[a]	succeeds above almost equal to
02AB9		⪹	⪹			⪹			\precnapprox[a]	precedes above not almost equal to
02ABA		⪺	⪺			⪺			\succnapprox[a]	succeeds above not almost equal to
02ABB		⪻	⪻			⪻			\Prec	double precedes
02ABC		⪼	⪼			⪼			\Succ	double succeeds
02ABD		⪽	⪽			⪽			\subsetdot	subset with dot
02ABE		⪾	⪾			⪾			\supsetdot	superset with dot
02ABF		⪿	⪿			⪿			\subsetplus	subset with plus sign below
02AC0		⫀	⫀			⫀			\supsetplus	superset with plus sign below
02AC1		⫁	⫁			⫁			\submult	subset with multiplication sign below
02AC2		⫂	⫂			⫂			\supmult	superset with multiplication sign below
02AC3		⫃	⫃			⫃			\subedot	subset of or equal to with dot above
02AC4		⫄	⫄			⫄			\supedot	superset of or equal to with dot above
02AC5		⫅	⫅			⫅			\subseteqq[a]	subset of above equals sign
02AC6		⫆	⫆			⫆			\supseteqq[a]	superset of above equals sign
02AC7		⫇	⫇			⫇			\subsim	subset of above tilde operator
02AC8		⫈	⫈			⫈			\supsim	superset of above tilde operator
02AC9		⫉	⫉			⫉			\subsetapprox	subset of above almost equal to
02ACA		⫊	⫊			⫊			\supsetapprox	superset of above almost equal to
02ACB		⫋	⫋			⫋			\subsetneqq[a]	subset of above not equal to
02ACC		⫌	⫌			⫌			\supsetneqq[a]	superset of above not equal to
02ACD		⫍	⫍			⫍			\lsqhook	square left open box operator
02ACE		⫎	⫎			⫎			\rsqhook	square right open box operator
02ACF		⫏	⫏			⫏			\csub	closed subset
02AD0		⫐	⫐			⫐			\csup	closed superset
02AD1		⫑	⫑			⫑			\csube	closed subset or equal to
02AD2		⫒	⫒			⫒			\csupe	closed superset or equal to
02AD3		⫓	⫓			⫓			\subsup	subset above superset
02AD4		⫔	⫔			⫔			\supsub	superset above subset
02AD5		⫕	⫕			⫕			\subsub	subset above subset
02AD6		⫖	⫖			⫖			\supsup	superset above superset
02AD7		⫗	⫗			⫗			\suphsub	superset beside subset
02AD8		⫘	⫘			⫘			\supdsub	superset beside and joined by dash with subset
02AD9		⫙	⫙			⫙			\forkv	element of opening downwards
02ADA		⫚	⫚			⫚			\topfork	pitchfork with tee top
02ADB		⫛	⫛			⫛			\mlcp	transversal intersection
02ADC		⫝	⫝			⫝			\forks	forking
02ADD		⫝̸	⫝̸			⫝̸			\forksnot	nonforking

USV	M	X	C	L	D	A	P	E	Macro	Description
02ADE									\shortlefttack	short left tack
02ADF									\shortdowntack	short down tack
02AE0									\shortuptack	short up tack
02AE2									\vDdash	vertical bar triple right turnstile
02AE3									\dashV	double vertical bar left turnstile
02AE4									\Dashv	vertical bar double left turnstile
02AE5									\DashV	double vertical bar double left turnstile
02AE6									\varVdash	long dash from left member of double vertical
02AE7									\Barv	short down tack with overbar
02AE8									\vBar	short up tack with underbar
02AE9									\vBarv	short up tack above short down tack
02AEA									\barV	double down tack
02AEB									\Vbar	double up tack
02AEC									\Not	double stroke not sign
02AED									\bNot	reversed double stroke not sign
02AEE									\revnmid	does not divide with reversed negation slash
02AEF									\cirmid	vertical line with circle above
02AF0									\midcir	vertical line with circle below
02AF2									\nhpar	parallel with horizontal stroke
02AF3									\parsim	parallel with tilde operator
02AF7									\lllnest	stacked very much less-than
02AF8									\gggnest	stacked very much greater-than
02AF9									\leqqslant	double-line slanted less-than or equal to
02AFA									\geqqslant	double-line slanted greater-than or equal to
02B30									\circleonleftarrow	left arrow with small circle
02B31									\leftthreearrows	three leftwards arrows
02B32									\leftarrowonoplus	left arrow with circled plus
02B33									\longleftsquigarrow	long leftwards squiggle arrow
02B34									\nvtwoheadleftarrow	leftwards two-headed arrow with vertical stroke
02B35									\nVtwoheadleftarrow	leftwards two-headed arrow with double vertical stroke
02B36									\twoheadmapsfrom	leftwards two-headed arrow from bar
02B37									\twoheadleftdbkarrow	leftwards two-headed triple-dash arrow
02B38									\leftdotarrow	leftwards arrow with dotted stem
02B39									\nvleftarrowtail	leftwards arrow with tail with vertical stroke
02B3A									\nVleftarrowtail	leftwards arrow with tail with double vertical stroke
02B3B									\twoheadleftarrowtail	leftwards two-headed arrow with tail
02B3C									\nvtwoheadleftarrowtail	leftwards two-headed arrow with tail with vertical stroke
02B3D									\nVtwoheadleftarrowtail	leftwards two-headed arrow with tail with double vertical stroke
02B3E									\leftarrowx	leftwards arrow through x
02B3F									\leftcurvedarrow	wave arrow pointing directly left
02B40									\equalleftarrow	equals sign above leftwards arrow
02B41									\bsimilarleftarrow	reverse tilde operator above leftwards arrow
02B42									\leftarrowbackapprox	leftwards arrow above reverse almost equal to
02B43									\rightarrowgtr	rightwards arrow through less-than
02B44									\rightarrowsupset	rightwards arrow through subset
02B45									\LLeftarrow	leftwards quadruple arrow
02B46									\RRightarrow	rightwards quadruple arrow
02B47									\bsimilarrightarrow	reverse tilde operator above rightwards arrow
02B48									\rightarrowbackapprox	rightwards arrow above reverse almost equal to

USV	M	X	C	L	D	A	P	E	Macro	Description
02B49		⥱				⥱			`\similarleftarrow`	tilde operator above leftwards arrow
02B4A		⥲				⥲			`\leftarrowapprox`	leftwards arrow above almost equal to
02B4B		⥳				⥳			`\leftarrowbsimilar`	leftwards arrow above reverse tilde operator
02B4C		⥴				⥴			`\rightarrowbsimilar`	righttwards arrow above reverse tilde operator

13 Alphabetical symbols, \mathalpha

13.1 Normal weight

13.1.1 Upright Greek, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
00391	Α	Α	Α			Α	Α	Α	\upAlpha	capital alpha, greek
00392	Β	Β	Β			Β	Β	Β	\upBeta	capital beta, greek
00393	Γ	Γ	Γ			Γ	Γ	Γ	\upGamma	capital gamma, greek
00394	Δ	Δ	Δ			Δ	Δ	Δ	\upDelta	capital delta, greek
00395	Ε	Ε	Ε			Ε	Ε	Ε	\upEpsilon	capital epsilon, greek
00396	Ζ	Ζ	Ζ			Ζ	Ζ	Ζ	\upZeta	capital zeta, greek
00397	Η	Η	Η			Η	Η	Η	\upEta	capital eta, greek
00398	Θ	Θ	Θ			Θ	Θ	Θ	\upTheta	capital theta, greek
00399	Ι	Ι	Ι			Ι	Ι	Ι	\upIota	capital iota, greek
0039A	Κ	Κ	Κ			Κ	Κ	Κ	\upKappa	capital kappa, greek
0039B	Λ	Λ	Λ			Λ	Λ	Λ	\upLambda	capital lambda, greek
0039C	Μ	Μ	Μ			Μ	Μ	Μ	\upMu	capital mu, greek
0039D	Ν	Ν	Ν			Ν	Ν	Ν	\upNu	capital nu, greek
0039E	Ξ	Ξ	Ξ			Ξ	Ξ	Ξ	\upXi	capital xi, greek
0039F	Ο	Ο	Ο			Ο	Ο	Ο	\upOmicron	capital omicron, greek
003A0	Π	Π	Π			Π	Π	Π	\upPi	capital pi, greek
003A1	Ρ	Ρ	Ρ			Ρ	Ρ	Ρ	\upRho	capital rho, greek
003A3	Σ	Σ	Σ			Σ	Σ	Σ	\upSigma	capital sigma, greek
003A4	Τ	Τ	Τ			Τ	Τ	Τ	\upTau	capital tau, greek
003A5	Υ	Υ	Υ			Υ	Υ	Υ	\upUpsilon	capital upsilon, greek
003A6	Φ	Φ	Φ			Φ	Φ	Φ	\upPhi	capital phi, greek
003A7	Χ	Χ	Χ			Χ	Χ	Χ	\upChi	capital chi, greek
003A8	Ψ	Ψ	Ψ			Ψ	Ψ	Ψ	\upPsi	capital psi, greek
003A9	Ω	Ω	Ω			Ω	Ω	Ω	\upOmega	capital omega, greek

13.1.2 Upright Greek, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
003B1	α	α	α			α	α	α	\upalpha	small alpha, greek
003B2	β	β	β			β	β	β	\upbeta	small beta, greek
003B3	γ	γ	γ			γ	γ	γ	\upgamma	small gamma, greek
003B4	δ	δ	δ			δ	δ	δ	\updelta	small delta, greek
003B5	ε	ε	ε			ε	ε	ε	\upepsilon	rounded small epsilon, greek
003B6	ζ	ζ	ζ			ζ	ζ	ζ	\upzeta	small zeta, greek
003B7	η	η	η			η	η	η	\upeta	small eta, greek
003B8	θ	θ	θ			θ	θ	θ	\uptheta	straight theta, small theta, greek
003B9	ι	ι	ι			ι	ι	ι	\upiota	small iota, greek
003BA	κ	κ	κ			κ	κ	κ	\upkappa	small kappa, greek
003BB	λ	λ	λ			λ	λ	λ	\uplambda	small lambda, greek
003BC	μ	μ	μ			μ	μ	μ	\upmu	small mu, greek
003BD	ν	ν	ν			ν	ν	ν	\upnu	small nu, greek

USV	M	X	C	L	D	A	P	E	Macro	Description
003BE	ξ	ξ	ξ			ξ	ξ	ξ	\upxi	small xi, greek
003BF	ο	ο	ο			ο	ο	ο	\upomicron	small omicron, greek
003C0	π	π	π			π	π	π	\uppi	small pi, greek
003C1	ρ	ρ	ρ			ρ	ρ	ρ	\uprho	small rho, greek
003C2	ς	ς	ς			ς	ς		\upvarsigma	terminal sigma, greek
003C3	σ	σ	σ			σ	σ	σ	\upsigma	small sigma, greek
003C4	τ	τ	τ			τ	τ	τ	\uptau	small tau, greek
003C5	υ	υ	υ			υ	υ	υ	\upupsilon	small upsilon, greek
003C6	φ	φ	φ			φ	φ	φ	\upvarphi	curly or open small phi, greek
003C7	χ	χ	χ			χ	χ	χ	\upchi	small chi, greek
003C8	ψ	ψ	ψ			ψ	ψ	ψ	\uppsi	small psi, greek
003C9	ω	ω	ω			ω	ω	ω	\upomega	small omega, greek
003D0		ϐ	ϐ			ϐ			\upvarbeta	rounded small beta, greek
003D1	ϑ	ϑ	ϑ			ϑ	ϑ	ϑ	\upvartheta	/vartheta - curly or open theta
003D5	ϕ	ϕ	ϕ			ϕ	ϕ	ϕ	\upphi	/straightphi - small phi, greek
003D6	ϖ	ϖ	ϖ			ϖ	ϖ	ϖ	\upvarpi	rounded small pi (pomega), greek
003DA		Ϛ	Ϛ						\upStigma	capital stigma
003DB		ϛ	ϛ						\upstigma	greek small letter stigma
003DC		Ϝ	Ϝ			Ϝ			\upDigamma	capital digamma
003DD		ϝ	ϝ			ϝ			\updigamma	old greek small letter digamma
003DE		Ϟ	ϟ						\upKoppa	capital koppa
003DF		ϟ	ϟ						\upkoppa	greek small letter koppa
003E0		Ϡ	ϡ						\upSampi	capital sampi
003E1		ϡ	ϡ						\upsampi	greek small letter sampi
003F0	ϰ	ϰ	ϰ			ϰ	ϰ		\upvarkappa	rounded small kappa, greek
003F1	ϱ	ϱ	ϱ			ϱ	ϱ		\upvarrho	rounded small rho, greek
003F4	Θ	Θ				Θ	Θ		\upvarTheta	greek capital theta symbol
003F5	ϵ	ϵ	ϵ			ϵ	ϵ	ϵ	\upvarepsilon	greek lunate epsilon symbol

13.1.3 Italic, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D434	*A*	*A*	*A*			*A*	*A*		\mitA	mathematical italic capital a
1D435	*B*	*B*	*B*			*B*	*B*		\mitB	mathematical italic capital b
1D436	*C*	*C*	*C*			*C*	*C*		\mitC	mathematical italic capital c
1D437	*D*	*D*	*D*			*D*	*D*		\mitD	mathematical italic capital d
1D438	*E*	*E*	*E*			*E*	*E*		\mitE	mathematical italic capital e
1D439	*F*	*F*	*F*			*F*	*F*		\mitF	mathematical italic capital f
1D43A	*G*	*G*	*G*			*G*	*G*		\mitG	mathematical italic capital g
1D43B	*H*	*H*	*H*			*H*	*H*		\mitH	mathematical italic capital h
1D43C	*I*	*I*	*I*			*I*	*I*		\mitI	mathematical italic capital i
1D43D	*J*	*J*	*J*			*J*	*J*		\mitJ	mathematical italic capital j
1D43E	*K*	*K*	*K*			*K*	*K*		\mitK	mathematical italic capital k
1D43F	*L*	*L*	*L*			*L*	*L*		\mitL	mathematical italic capital l
1D440	*M*	*M*	*M*			*M*	*M*		\mitM	mathematical italic capital m
1D441	*N*	*N*	*N*			*N*	*N*		\mitN	mathematical italic capital n
1D442	*O*	*O*	*O*			*O*	*O*		\mitO	mathematical italic capital o

USV	M	X	C	L	D	A	P	E	Macro	Description
1D443	P	P	P			P	P		\mitP	mathematical italic capital p
1D444	Q	Q	Q			Q	Q		\mitQ	mathematical italic capital q
1D445	R	R	R			R	R		\mitR	mathematical italic capital r
1D446	S	S	S			S	S		\mitS	mathematical italic capital s
1D447	T	T	T			T	T		\mitT	mathematical italic capital t
1D448	U	U	U			U	U		\mitU	mathematical italic capital u
1D449	V	V	V			V	V		\mitV	mathematical italic capital v
1D44A	W	W	W			W	W		\mitW	mathematical italic capital w
1D44B	X	X	X			X	X		\mitX	mathematical italic capital x
1D44C	Y	Y	Y			Y	Y		\mitY	mathematical italic capital y
1D44D	Z	Z	Z			Z	Z		\mitZ	mathematical italic capital z

13.1.4 Italic, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D44E	a	a	a			a	a		\mita	mathematical italic small a
1D44F	b	b	b			b	b		\mitb	mathematical italic small b
1D450	c	c	c			c	c		\mitc	mathematical italic small c
1D451	d	d	d			d	d		\mitd	mathematical italic small d
1D452	e	e	e			e	e		\mite	mathematical italic small e
1D453	f	f	f			f	f		\mitf	mathematical italic small f
1D454	g	g	g			g	g		\mitg	mathematical italic small g
1D456	i	i	i			i	i		\miti	mathematical italic small i
1D457	j	j	j			j	j		\mitj	mathematical italic small j
1D458	k	k	k			k	k		\mitk	mathematical italic small k
1D459	l	l	l			l	l		\mitl	mathematical italic small l
1D45A	m	m	m			m	m		\mitm	mathematical italic small m
1D45B	n	n	n			n	n		\mitn	mathematical italic small n
1D45C	o	o	o			o	o		\mito	mathematical italic small o
1D45D	p	p	p			p	p		\mitp	mathematical italic small p
1D45E	q	q	q			q	q		\mitq	mathematical italic small q
1D45F	r	r	r			r	r		\mitr	mathematical italic small r
1D460	s	s	s			s	s		\mits	mathematical italic small s
1D461	t	t	t			t	t		\mitt	mathematical italic small t
1D462	u	u	u			u	u		\mitu	mathematical italic small u
1D463	v	v	v			v	v		\mitv	mathematical italic small v
1D464	w	w	w			w	w		\mitw	mathematical italic small w
1D465	x	x	x			x	x		\mitx	mathematical italic small x
1D466	y	y	y			y	y		\mity	mathematical italic small y
1D467	z	z	z			z	z		\mitz	mathematical italic small z

13.1.5 Italic Greek, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D6E2	A	A	A			A	A		\mitAlpha	mathematical italic capital alpha

USV	M	X	C	L	D	A	P	E	Macro	Description
1D6E3	B	B	B			B	B		\mitBeta	mathematical italic capital beta
1D6E4	Γ	Γ	Γ			Γ	Γ		\mitGamma	mathematical italic capital gamma
1D6E5	Δ	Δ	Δ			Δ	Δ		\mitDelta	mathematical italic capital delta
1D6E6	E	E	E			E	E		\mitEpsilon	mathematical italic capital epsilon
1D6E7	Z	Z	Z			Z	Z		\mitZeta	mathematical italic capital zeta
1D6E8	H	H	H			H	H		\mitEta	mathematical italic capital eta
1D6E9	Θ	Θ	Θ			Θ	Θ		\mitTheta	mathematical italic capital theta
1D6EA	I	I	I			I	I		\mitIota	mathematical italic capital iota
1D6EB	K	K	K			K	K		\mitKappa	mathematical italic capital kappa
1D6EC	Λ	Λ	Λ			Λ	Λ		\mitLambda	mathematical italic capital lambda
1D6ED	M	M	M			M	M		\mitMu	mathematical italic capital mu
1D6EE	N	N	N			N	N		\mitNu	mathematical italic capital nu
1D6EF	Ξ	Ξ	Ξ			Ξ	Ξ		\mitXi	mathematical italic capital xi
1D6F0	O	O	O			O	O		\mitOmicron	mathematical italic capital omicron
1D6F1	Π	Π	Π			Π	Π		\mitPi	mathematical italic capital pi
1D6F2	P	P	P			P	P		\mitRho	mathematical italic capital rho
1D6F3	Θ	Θ	Θ			Θ	Θ		\mitvarTheta	mathematical italic capital theta symbol
1D6F4	Σ	Σ	Σ			Σ	Σ		\mitSigma	mathematical italic capital sigma
1D6F5	T	T	T			T	T		\mitTau	mathematical italic capital tau
1D6F6	Υ	Υ	Υ			Υ	Υ		\mitUpsilon	mathematical italic capital upsilon
1D6F7	Φ	Φ	Φ			Φ	Φ		\mitPhi	mathematical italic capital phi
1D6F8	X	X	X			X	X		\mitChi	mathematical italic capital chi
1D6F9	Ψ	Ψ	Ψ			Ψ	Ψ		\mitPsi	mathematical italic capital psi
1D6FA	Ω	Ω	Ω			Ω	Ω		\mitOmega	mathematical italic capital omega

13.1.6 Italic Greek, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D6FC	α	α	α			α	α		\mitalpha	mathematical italic small alpha
1D6FD	β	β	β			β	β		\mitbeta	mathematical italic small beta
1D6FE	γ	γ	γ			γ	γ		\mitgamma	mathematical italic small gamma
1D6FF	δ	δ	δ			δ	δ		\mitdelta	mathematical italic small delta
1D700	ε	ε	ε			ε	ε		\mitepsilon	mathematical italic small epsilon
1D701	ζ	ζ	ζ			ζ	ζ		\mitzeta	mathematical italic small zeta
1D702	η	η	η			η	η		\miteta	mathematical italic small eta
1D703	θ	θ	θ			θ	θ		\mittheta	mathematical italic small theta
1D704	ι	ι	ι			ι	ι		\mitiota	mathematical italic small iota
1D705	κ	κ	κ			κ	κ		\mitkappa	mathematical italic small kappa
1D706	λ	λ	λ			λ	λ		\mitlambda	mathematical italic small lambda
1D707	μ	μ	μ			μ	μ		\mitmu	mathematical italic small mu
1D708	ν	ν	ν			ν	ν		\mitnu	mathematical italic small nu
1D709	ξ	ξ	ξ			ξ	ξ		\mitxi	mathematical italic small xi
1D70A	o	o	o			o	o		\mitomicron	mathematical italic small omicron
1D70B	π	π	π			π	π		\mitpi	mathematical italic small pi
1D70C	ρ	ρ	ρ			ρ	ρ		\mitrho	mathematical italic small rho
1D70D	ς	ς	ς			ς	ς		\mitvarsigma	mathematical italic small final sigma
1D70E	σ	σ	σ			σ	σ		\mitsigma	mathematical italic small sigma
1D70F	τ	τ	τ			τ	τ		\mittau	mathematical italic small tau

USV	M	X	C	L	D	A	P	E	Macro	Description
1D710	υ	υ	υ			υ	υ		\mitupsilon	mathematical italic small upsilon
1D711	φ	φ	φ			φ	φ		\mitphi	mathematical italic small phi
1D712	χ	χ	χ			χ	χ		\mitchi	mathematical italic small chi
1D713	ψ	ψ	ψ			ψ	ψ		\mitpsi	mathematical italic small psi
1D714	ω	ω	ω			ω	ω		\mitomega	mathematical italic small omega
1D715	∂	∂	∂			∂	∂		\mitpartial	mathematical italic partial differential
1D716	ϵ	ϵ	ϵ			ϵ	ϵ		\mitvarepsilon	mathematical italic epsilon symbol
1D717	ϑ	ϑ	ϑ			ϑ	ϑ		\mitvartheta	mathematical italic theta symbol
1D718	$\varkappa$	$\varkappa$	$\varkappa$			$\varkappa$	$\varkappa$		\mitvarkappa	mathematical italic kappa symbol
1D719	ϕ	ϕ	ϕ			ϕ	ϕ		\mitvarphi	mathematical italic phi symbol
1D71A	ϱ	ϱ	ϱ			ϱ	ϱ		\mitvarrho	mathematical italic rho symbol
1D71B	ϖ	ϖ	ϖ			ϖ	ϖ		\mitvarpi	mathematical italic pi symbol

13.1.7 Script, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D49C	$\mathcal{A}$	$\mathcal{A}$	$\mathcal{A}$			$\mathcal{A}$	A	$\mathcal{A}$	\mscrA	mathematical script capital a
1D49E	$\mathcal{C}$	$\mathcal{C}$	$\mathcal{C}$			$\mathcal{C}$	C	$\mathcal{C}$	\mscrC	mathematical script capital c
1D49F	$\mathcal{D}$	$\mathcal{D}$	$\mathcal{D}$			$\mathcal{D}$	D	$\mathcal{D}$	\mscrD	mathematical script capital d
1D4A2	$\mathcal{G}$	$\mathcal{G}$	$\mathcal{G}$			$\mathcal{G}$	G	$\mathcal{G}$	\mscrG	mathematical script capital g
1D4A5	$\mathcal{J}$	$\mathcal{J}$	$\mathcal{J}$			$\mathcal{J}$	J	$\mathcal{J}$	\mscrJ	mathematical script capital j
1D4A6	$\mathcal{K}$	$\mathcal{K}$	$\mathcal{K}$			$\mathcal{K}$	K	$\mathcal{K}$	\mscrK	mathematical script capital k
1D4A9	$\mathcal{N}$	$\mathcal{N}$	$\mathcal{N}$			$\mathcal{N}$	N	$\mathcal{N}$	\mscrN	mathematical script capital n
1D4AA	$\mathcal{O}$	$\mathcal{O}$	$\mathcal{O}$			$\mathcal{O}$	O	$\mathcal{O}$	\mscrO	mathematical script capital o
1D4AB	$\mathcal{P}$	$\mathcal{P}$	$\mathcal{P}$			$\mathcal{P}$	P	$\mathcal{P}$	\mscrP	mathematical script capital p
1D4AC	$\mathcal{Q}$	$\mathcal{Q}$	$\mathcal{Q}$			$\mathcal{Q}$	Q	$\mathcal{Q}$	\mscrQ	mathematical script capital q
1D4AE	$\mathcal{S}$	$\mathcal{S}$	$\mathcal{S}$			$\mathcal{S}$	S	$\mathcal{S}$	\mscrS	mathematical script capital s
1D4AF	$\mathcal{T}$	$\mathcal{T}$	$\mathcal{T}$			$\mathcal{T}$	T	$\mathcal{T}$	\mscrT	mathematical script capital t
1D4B0	$\mathcal{U}$	$\mathcal{U}$	$\mathcal{U}$			$\mathcal{U}$	U	$\mathcal{U}$	\mscrU	mathematical script capital u
1D4B1	$\mathcal{V}$	$\mathcal{V}$	$\mathcal{V}$			$\mathcal{V}$	V	$\mathcal{V}$	\mscrV	mathematical script capital v
1D4B2	$\mathcal{W}$	$\mathcal{W}$	$\mathcal{W}$			$\mathcal{W}$	W	$\mathcal{W}$	\mscrW	mathematical script capital w
1D4B3	$\mathcal{X}$	$\mathcal{X}$	$\mathcal{X}$			$\mathcal{X}$	X	$\mathcal{X}$	\mscrX	mathematical script capital x
1D4B4	$\mathcal{Y}$	$\mathcal{Y}$	$\mathcal{Y}$			$\mathcal{Y}$	Y	$\mathcal{Y}$	\mscrY	mathematical script capital y
1D4B5	$\mathcal{Z}$	$\mathcal{Z}$	$\mathcal{Z}$			$\mathcal{Z}$	Z	$\mathcal{Z}$	\mscrZ	mathematical script capital z

13.1.8 Script, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D4B6		a	a			a	a		\mscra	mathematical script small a
1D4B7		b	b			b	b		\mscrb	mathematical script small b
1D4B8		c	c			c	c		\mscrc	mathematical script small c
1D4B9		d	d			d	d		\mscrd	mathematical script small d
1D4BB		f	f			f	f		\mscrf	mathematical script small f
1D4BD		h	h			h	h		\mscrh	mathematical script small h

USV	M	X	C	L	D	A	P	E	Macro	Description
1D4BE		i	i			i	i		\mscri	mathematical script small i
1D4BF		j	j			j	j		\mscrj	mathematical script small j
1D4C0		k	k			k	k		\mscrk	mathematical script small k
1D4C1		l	l			l	l		\mscrl	mathematical script small l
1D4C2		m	m			m	m		\mscrm	mathematical script small m
1D4C3		n	n			n	n		\mscrn	mathematical script small n
1D4C5		p	p			p	p		\mscrp	mathematical script small p
1D4C6		q	q			q	q		\mscrq	mathematical script small q
1D4C7		r	r			r	r		\mscrr	mathematical script small r
1D4C8		s	s			s	s		\mscrs	mathematical script small s
1D4C9		t	t			t	t		\mscrt	mathematical script small t
1D4CA		u	u			u	u		\mscru	mathematical script small u
1D4CB		v	v			v	v		\mscrv	mathematical script small v
1D4CC		w	w			w	w		\mscrw	mathematical script small w
1D4CD		x	x			x	x		\mscrx	mathematical script small x
1D4CE		y	y			y	y		\mscry	mathematical script small y
1D4CF		z	z			z	z		\mscrz	mathematical script small z

13.1.9 Fraktur, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D504	$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$			$\mathfrak{A}$	$\mathfrak{A}$	$\mathfrak{A}$	\mfrakA	mathematical fraktur capital a
1D505	$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$			$\mathfrak{B}$	$\mathfrak{B}$	$\mathfrak{B}$	\mfrakB	mathematical fraktur capital b
1D507	$\mathfrak{D}$	$\mathfrak{D}$	$\mathfrak{D}$			$\mathfrak{D}$	$\mathfrak{D}$	$\mathfrak{D}$	\mfrakD	mathematical fraktur capital d
1D508	$\mathfrak{E}$	$\mathfrak{E}$	$\mathfrak{E}$			$\mathfrak{E}$	$\mathfrak{E}$	$\mathfrak{E}$	\mfrakE	mathematical fraktur capital e
1D509	$\mathfrak{F}$	$\mathfrak{F}$	$\mathfrak{F}$			$\mathfrak{F}$	$\mathfrak{F}$	$\mathfrak{F}$	\mfrakF	mathematical fraktur capital f
1D50A	$\mathfrak{G}$	$\mathfrak{G}$	$\mathfrak{G}$			$\mathfrak{G}$	$\mathfrak{G}$	$\mathfrak{G}$	\mfrakG	mathematical fraktur capital g
1D50D	$\mathfrak{J}$	$\mathfrak{J}$	$\mathfrak{J}$			$\mathfrak{J}$	$\mathfrak{J}$	$\mathfrak{J}$	\mfrakJ	mathematical fraktur capital j
1D50E	$\mathfrak{K}$	$\mathfrak{K}$	$\mathfrak{K}$			$\mathfrak{K}$	$\mathfrak{K}$	$\mathfrak{K}$	\mfrakK	mathematical fraktur capital k
1D50F	$\mathfrak{L}$	$\mathfrak{L}$	$\mathfrak{L}$			$\mathfrak{L}$	$\mathfrak{L}$	$\mathfrak{L}$	\mfrakL	mathematical fraktur capital l
1D510	$\mathfrak{M}$	$\mathfrak{M}$	$\mathfrak{M}$			$\mathfrak{M}$	$\mathfrak{M}$	$\mathfrak{M}$	\mfrakM	mathematical fraktur capital m
1D511	$\mathfrak{N}$	$\mathfrak{N}$	$\mathfrak{N}$			$\mathfrak{N}$	$\mathfrak{N}$	$\mathfrak{N}$	\mfrakN	mathematical fraktur capital n
1D512	$\mathfrak{O}$	$\mathfrak{O}$	$\mathfrak{O}$			$\mathfrak{O}$	$\mathfrak{O}$	$\mathfrak{O}$	\mfrakO	mathematical fraktur capital o
1D513	$\mathfrak{P}$	$\mathfrak{P}$	$\mathfrak{P}$			$\mathfrak{P}$	$\mathfrak{P}$	$\mathfrak{P}$	\mfrakP	mathematical fraktur capital p
1D514	$\mathfrak{Q}$	$\mathfrak{Q}$	$\mathfrak{Q}$			$\mathfrak{Q}$	$\mathfrak{Q}$	$\mathfrak{Q}$	\mfrakQ	mathematical fraktur capital q
1D516	$\mathfrak{S}$	$\mathfrak{S}$	$\mathfrak{S}$			$\mathfrak{S}$	$\mathfrak{S}$	$\mathfrak{S}$	\mfrakS	mathematical fraktur capital s
1D517	$\mathfrak{T}$	$\mathfrak{T}$	$\mathfrak{T}$			$\mathfrak{T}$	$\mathfrak{T}$	$\mathfrak{T}$	\mfrakT	mathematical fraktur capital t
1D518	$\mathfrak{U}$	$\mathfrak{U}$	$\mathfrak{U}$			$\mathfrak{U}$	$\mathfrak{U}$	$\mathfrak{U}$	\mfrakU	mathematical fraktur capital u
1D519	$\mathfrak{V}$	$\mathfrak{V}$	$\mathfrak{V}$			$\mathfrak{V}$	$\mathfrak{V}$	$\mathfrak{V}$	\mfrakV	mathematical fraktur capital v
1D51A	$\mathfrak{W}$	$\mathfrak{W}$	$\mathfrak{W}$			$\mathfrak{W}$	$\mathfrak{W}$	$\mathfrak{W}$	\mfrakW	mathematical fraktur capital w
1D51B	$\mathfrak{X}$	$\mathfrak{X}$	$\mathfrak{X}$			$\mathfrak{X}$	$\mathfrak{X}$	$\mathfrak{X}$	\mfrakX	mathematical fraktur capital x
1D51C	$\mathfrak{Y}$	$\mathfrak{Y}$	$\mathfrak{Y}$			$\mathfrak{Y}$	$\mathfrak{Y}$	$\mathfrak{Y}$	\mfrakY	mathematical fraktur capital y

13.1.10 Fraktur, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D51E	𝔞	𝔞	𝔞			𝔞	𝔞	𝔞	\mfraka	mathematical fraktur small a
1D51F	𝔟	𝔟	𝔟			𝔟	𝔟	𝔟	\mfrakb	mathematical fraktur small b
1D520	𝔠	𝔠	𝔠			𝔠	𝔠	𝔠	\mfrakc	mathematical fraktur small c
1D521	𝔡	𝔡	𝔡			𝔡	𝔡	𝔡	\mfrakd	mathematical fraktur small d
1D522	𝔢	𝔢	𝔢			𝔢	𝔢	𝔢	\mfrake	mathematical fraktur small e
1D523	𝔣	𝔣	𝔣			𝔣	𝔣	𝔣	\mfrakf	mathematical fraktur small f
1D524	𝔤	𝔤	𝔤			𝔤	𝔤	𝔤	\mfrakg	mathematical fraktur small g
1D525	𝔥	𝔥	𝔥			𝔥	𝔥	𝔥	\mfrakh	mathematical fraktur small h
1D526	𝔦	𝔦	𝔦			𝔦	𝔦	𝔦	\mfraki	mathematical fraktur small i
1D527	𝔧	𝔧	𝔧			𝔧	𝔧	𝔧	\mfrakj	mathematical fraktur small j
1D528	𝔨	𝔨	𝔨			𝔨	𝔨	𝔨	\mfrakk	mathematical fraktur small k
1D529	𝔩	𝔩	𝔩			𝔩	𝔩	𝔩	\mfrakl	mathematical fraktur small l
1D52A	𝔪	𝔪	𝔪			𝔪	𝔪	𝔪	\mfrakm	mathematical fraktur small m
1D52B	𝔫	𝔫	𝔫			𝔫	𝔫	𝔫	\mfrakn	mathematical fraktur small n
1D52C	𝔬	𝔬	𝔬			𝔬	𝔬	𝔬	\mfrako	mathematical fraktur small o
1D52D	𝔭	𝔭	𝔭			𝔭	𝔭	𝔭	\mfrakp	mathematical fraktur small p
1D52E	𝔮	𝔮	𝔮			𝔮	𝔮	𝔮	\mfrakq	mathematical fraktur small q
1D52F	𝔯	𝔯	𝔯			𝔯	𝔯	𝔯	\mfrakr	mathematical fraktur small r
1D530	𝔰	𝔰	𝔰			𝔰	𝔰	𝔰	\mfraks	mathematical fraktur small s
1D531	𝔱	𝔱	𝔱			𝔱	𝔱	𝔱	\mfrakt	mathematical fraktur small t
1D532	𝔲	𝔲	𝔲			𝔲	𝔲	𝔲	\mfraku	mathematical fraktur small u
1D533	𝔳	𝔳	𝔳			𝔳	𝔳	𝔳	\mfrakv	mathematical fraktur small v
1D534	𝔴	𝔴	𝔴			𝔴	𝔴	𝔴	\mfrakw	mathematical fraktur small w
1D535	𝔵	𝔵	𝔵			𝔵	𝔵	𝔵	\mfrakx	mathematical fraktur small x
1D536	𝔶	𝔶	𝔶			𝔶	𝔶	𝔶	\mfraky	mathematical fraktur small y
1D537	𝔷	𝔷	𝔷			𝔷	𝔷	𝔷	\mfrakz	mathematical fraktur small z

13.1.11 Blackboard, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D538	𝔸	𝔸	𝔸			𝔸	𝔸		\BbbA	mathematical double-struck capital a
1D539	𝔹	𝔹	𝔹			𝔹	𝔹		\BbbB	mathematical double-struck capital b
1D53B	𝔻	𝔻	𝔻			𝔻	𝔻		\BbbD	mathematical double-struck capital d
1D53C	𝔼	𝔼	𝔼			𝔼	𝔼		\BbbE	mathematical double-struck capital e
1D53D	𝔽	𝔽	𝔽			𝔽	𝔽		\BbbF	mathematical double-struck capital f
1D53E	𝔾	𝔾	𝔾			𝔾	𝔾		\BbbG	mathematical double-struck capital g
1D540	𝕀	𝕀	𝕀			𝕀	𝕀		\BbbI	mathematical double-struck capital i
1D541	𝕁	𝕁	𝕁			𝕁	𝕁		\BbbJ	mathematical double-struck capital j
1D542	𝕂	𝕂	𝕂			𝕂	𝕂		\BbbK	mathematical double-struck capital k
1D543	𝕃	𝕃	𝕃			𝕃	𝕃		\BbbL	mathematical double-struck capital l
1D544	𝕄	𝕄	𝕄			𝕄	𝕄		\BbbM	mathematical double-struck capital m
1D546	𝕆	𝕆	𝕆			𝕆	𝕆		\BbbO	mathematical double-struck capital o
1D54A	𝕊	𝕊	𝕊			𝕊	𝕊		\BbbS	mathematical double-struck capital s
1D54B	𝕋	𝕋	𝕋			𝕋	𝕋		\BbbT	mathematical double-struck capital t
1D54C	𝕌	𝕌	𝕌			𝕌	𝕌		\BbbU	mathematical double-struck capital u
1D54D	𝕍	𝕍	𝕍			𝕍	𝕍		\BbbV	mathematical double-struck capital v
1D54E	𝕎	𝕎	𝕎			𝕎	𝕎		\BbbW	mathematical double-struck capital w

USV	M	X	C	L	D	A	P	E	Macro	Description
1D54F	𝕏	𝕏	𝕏			𝕏	𝕏		\BbbX	mathematical double-struck capital x
1D550	𝕐	𝕐	𝕐			𝕐	𝕐		\BbbY	mathematical double-struck capital y

13.1.12 Blackboard, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D552	𝕒	𝕒	𝕒			𝕒	𝕒		\Bbba	mathematical double-struck small a
1D553	𝕓	𝕓	𝕓			𝕓	𝕓		\Bbbb	mathematical double-struck small b
1D554	𝕔	𝕔	𝕔			𝕔	𝕔		\Bbbc	mathematical double-struck small c
1D555	𝕕	𝕕	𝕕			𝕕	𝕕		\Bbbd	mathematical double-struck small d
1D556	𝕖	𝕖	𝕖			𝕖	𝕖		\Bbbe	mathematical double-struck small e
1D557	𝕗	𝕗	𝕗			𝕗	𝕗		\Bbbf	mathematical double-struck small f
1D558	𝕘	𝕘	𝕘			𝕘	𝕘		\Bbbg	mathematical double-struck small g
1D559	𝕙	𝕙	𝕙			𝕙	𝕙		\Bbbh	mathematical double-struck small h
1D55A	𝕚	𝕚	𝕚			𝕚	𝕚		\Bbbi	mathematical double-struck small i
1D55B	𝕛	𝕛	𝕛			𝕛	𝕛		\Bbbj	mathematical double-struck small j
1D55C	𝕜	𝕜	𝕜			𝕜	𝕜		\Bbbk[a]	mathematical double-struck small k
1D55D	𝕝	𝕝	𝕝			𝕝	𝕝		\Bbbl	mathematical double-struck small l
1D55E	𝕞	𝕞	𝕞			𝕞	𝕞		\Bbbm	mathematical double-struck small m
1D55F	𝕟	𝕟	𝕟			𝕟	𝕟		\Bbbn	mathematical double-struck small n
1D560	𝕠	𝕠	𝕠			𝕠	𝕠		\Bbbo	mathematical double-struck small o
1D561	𝕡	𝕡	𝕡			𝕡	𝕡		\Bbbp	mathematical double-struck small p
1D562	𝕢	𝕢	𝕢			𝕢	𝕢		\Bbbq	mathematical double-struck small q
1D563	𝕣	𝕣	𝕣			𝕣	𝕣		\Bbbr	mathematical double-struck small r
1D564	𝕤	𝕤	𝕤			𝕤	𝕤		\Bbbs	mathematical double-struck small s
1D565	𝕥	𝕥	𝕥			𝕥	𝕥		\Bbbt	mathematical double-struck small t
1D566	𝕦	𝕦	𝕦			𝕦	𝕦		\Bbbu	mathematical double-struck small u
1D567	𝕧	𝕧	𝕧			𝕧	𝕧		\Bbbv	mathematical double-struck small v
1D568	𝕨	𝕨	𝕨			𝕨	𝕨		\Bbbw	mathematical double-struck small w
1D569	𝕩	𝕩	𝕩			𝕩	𝕩		\Bbbx	mathematical double-struck small x
1D56A	𝕪	𝕪	𝕪			𝕪	𝕪		\Bbby	mathematical double-struck small y
1D56B	𝕫	𝕫	𝕫			𝕫	𝕫		\Bbbz	mathematical double-struck small z

13.1.13 Sans serif, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D5A0	𝖠	𝖠	𝖠			𝖠	𝖠		\msansA	mathematical sans-serif capital a
1D5A1	𝖡	𝖡	𝖡			𝖡	𝖡		\msansB	mathematical sans-serif capital b
1D5A2	𝖢	𝖢	𝖢			𝖢	𝖢		\msansC	mathematical sans-serif capital c
1D5A3	𝖣	𝖣	𝖣			𝖣	𝖣		\msansD	mathematical sans-serif capital d
1D5A4	𝖤	𝖤	𝖤			𝖤	𝖤		\msansE	mathematical sans-serif capital e
1D5A5	𝖥	𝖥	𝖥			𝖥	𝖥		\msansF	mathematical sans-serif capital f
1D5A6	𝖦	𝖦	𝖦			𝖦	𝖦		\msansG	mathematical sans-serif capital g
1D5A7	𝖧	𝖧	𝖧			𝖧	𝖧		\msansH	mathematical sans-serif capital h
1D5A8	𝖨	𝖨	𝖨			𝖨	𝖨		\msansI	mathematical sans-serif capital i

USV	M	X	C	L	D	A	P	E	Macro	Description
1D5A9	J	J	J			J	J		\msansJ	mathematical sans-serif capital j
1D5AA	K	K	K			K	K		\msansK	mathematical sans-serif capital k
1D5AB	L	L	L			L	L		\msansL	mathematical sans-serif capital l
1D5AC	M	M	M			M	M		\msansM	mathematical sans-serif capital m
1D5AD	N	N	N			N	N		\msansN	mathematical sans-serif capital n
1D5AE	O	O	O			O	O		\msansO	mathematical sans-serif capital o
1D5AF	P	P	P			P	P		\msansP	mathematical sans-serif capital p
1D5B0	Q	Q	Q			Q	Q		\msansQ	mathematical sans-serif capital q
1D5B1	R	R	R			R	R		\msansR	mathematical sans-serif capital r
1D5B2	S	S	S			S	S		\msansS	mathematical sans-serif capital s
1D5B3	T	T	T			T	T		\msansT	mathematical sans-serif capital t
1D5B4	U	U	U			U	U		\msansU	mathematical sans-serif capital u
1D5B5	V	V	V			V	V		\msansV	mathematical sans-serif capital v
1D5B6	W	W	W			W	W		\msansW	mathematical sans-serif capital w
1D5B7	X	X	X			X	X		\msansX	mathematical sans-serif capital x
1D5B8	Y	Y	Y			Y	Y		\msansY	mathematical sans-serif capital y
1D5B9	Z	Z	Z			Z	Z		\msansZ	mathematical sans-serif capital z

13.1.14 Sans serif, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D5BA	a	a	a			a	a		\msansa	mathematical sans-serif small a
1D5BB	b	b	b			b	b		\msansb	mathematical sans-serif small b
1D5BC	c	c	c			c	c		\msansc	mathematical sans-serif small c
1D5BD	d	d	d			d	d		\msansd	mathematical sans-serif small d
1D5BE	e	e	e			e	e		\msanse	mathematical sans-serif small e
1D5BF	f	f	f			f	f		\msansf	mathematical sans-serif small f
1D5C0	g	g	g			g	g		\msansg	mathematical sans-serif small g
1D5C1	h	h	h			h	h		\msansh	mathematical sans-serif small h
1D5C2	i	i	i			i	i		\msansi	mathematical sans-serif small i
1D5C3	j	j	j			j	j		\msansj	mathematical sans-serif small j
1D5C4	k	k	k			k	k		\msansk	mathematical sans-serif small k
1D5C5	l	l	l			l	l		\msansl	mathematical sans-serif small l
1D5C6	m	m	m			m	m		\msansm	mathematical sans-serif small m
1D5C7	n	n	n			n	n		\msansn	mathematical sans-serif small n
1D5C8	o	o	o			o	o		\msanso	mathematical sans-serif small o
1D5C9	p	p	p			p	p		\msansp	mathematical sans-serif small p
1D5CA	q	q	q			q	q		\msansq	mathematical sans-serif small q
1D5CB	r	r	r			r	r		\msansr	mathematical sans-serif small r
1D5CC	s	s	s			s	s		\msanss	mathematical sans-serif small s
1D5CD	t	t	t			t	t		\msanst	mathematical sans-serif small t
1D5CE	u	u	u			u	u		\msansu	mathematical sans-serif small u
1D5CF	v	v	v			v	v		\msansv	mathematical sans-serif small v
1D5D0	w	w	w			w	w		\msansw	mathematical sans-serif small w
1D5D1	x	x	x			x	x		\msansx	mathematical sans-serif small x
1D5D2	y	y	y			y	y		\msansy	mathematical sans-serif small y
1D5D3	z	z	z			z	z		\msansz	mathematical sans-serif small z

USV	M	X	C	L	D	A	P	E	Macro	Description

13.1.15 Italic sans serif, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D608	A	A	A			A	A		\mitsansA	mathematical sans-serif italic capital a
1D609	B	B	B			B	B		\mitsansB	mathematical sans-serif italic capital b
1D60A	C	C	C			C	C		\mitsansC	mathematical sans-serif italic capital c
1D60B	D	D	D			D	D		\mitsansD	mathematical sans-serif italic capital d
1D60C	E	E	E			E	E		\mitsansE	mathematical sans-serif italic capital e
1D60D	F	F	F			F	F		\mitsansF	mathematical sans-serif italic capital f
1D60E	G	G	G			G	G		\mitsansG	mathematical sans-serif italic capital g
1D60F	H	H	H			H	H		\mitsansH	mathematical sans-serif italic capital h
1D610	I	I	I			I	I		\mitsansI	mathematical sans-serif italic capital i
1D611	J	J	J			J	J		\mitsansJ	mathematical sans-serif italic capital j
1D612	K	K	K			K	K		\mitsansK	mathematical sans-serif italic capital k
1D613	L	L	L			L	L		\mitsansL	mathematical sans-serif italic capital l
1D614	M	M	M			M	M		\mitsansM	mathematical sans-serif italic capital m
1D615	N	N	N			N	N		\mitsansN	mathematical sans-serif italic capital n
1D616	O	O	O			O	O		\mitsansO	mathematical sans-serif italic capital o
1D617	P	P	P			P	P		\mitsansP	mathematical sans-serif italic capital p
1D618	Q	Q	Q			Q	Q		\mitsansQ	mathematical sans-serif italic capital q
1D619	R	R	R			R	R		\mitsansR	mathematical sans-serif italic capital r
1D61A	S	S	S			S	S		\mitsansS	mathematical sans-serif italic capital s
1D61B	T	T	T			T	T		\mitsansT	mathematical sans-serif italic capital t
1D61C	U	U	U			U	U		\mitsansU	mathematical sans-serif italic capital u
1D61D	V	V	V			V	V		\mitsansV	mathematical sans-serif italic capital v
1D61E	W	W	W			W	W		\mitsansW	mathematical sans-serif italic capital w
1D61F	X	X	X			X	X		\mitsansX	mathematical sans-serif italic capital x
1D620	Y	Y	Y			Y	Y		\mitsansY	mathematical sans-serif italic capital y
1D621	Z	Z	Z			Z	Z		\mitsansZ	mathematical sans-serif italic capital z

13.1.16 Italic sans serif, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D622	a	a	a			a	a		\mitsansa	mathematical sans-serif italic small a
1D623	b	b	b			b	b		\mitsansb	mathematical sans-serif italic small b
1D624	c	c	c			c	c		\mitsansc	mathematical sans-serif italic small c
1D625	d	d	d			d	d		\mitsansd	mathematical sans-serif italic small d
1D626	e	e	e			e	e		\mitsanse	mathematical sans-serif italic small e
1D627	f	f	f			f	f		\mitsansf	mathematical sans-serif italic small f
1D628	g	g	g			g	g		\mitsansg	mathematical sans-serif italic small g
1D629	h	h	h			h	h		\mitsansh	mathematical sans-serif italic small h
1D62A	i	i	i			i	i		\mitsansi	mathematical sans-serif italic small i
1D62B	j	j	j			j	j		\mitsansj	mathematical sans-serif italic small j
1D62C	k	k	k			k	k		\mitsansk	mathematical sans-serif italic small k
1D62D	l	l	l			l	l		\mitsansl	mathematical sans-serif italic small l

USV	M	X	C	L	D	A	P	E	Macro	Description
1D62E	m	m	m			m	m		\mitsansm	mathematical sans-serif italic small m
1D62F	n	n	n			n	n		\mitsansn	mathematical sans-serif italic small n
1D630	o	o	o			o	o		\mitsanso	mathematical sans-serif italic small o
1D631	p	p	p			p	p		\mitsansp	mathematical sans-serif italic small p
1D632	q	q	q			q	q		\mitsansq	mathematical sans-serif italic small q
1D633	r	r	r			r	r		\mitsansr	mathematical sans-serif italic small r
1D634	s	s	s			s	s		\mitsanss	mathematical sans-serif italic small s
1D635	t	t	t			t	t		\mitsanst	mathematical sans-serif italic small t
1D636	u	u	u			u	u		\mitsansu	mathematical sans-serif italic small u
1D637	v	v	v			v	v		\mitsansv	mathematical sans-serif italic small v
1D638	w	w	w			w	w		\mitsansw	mathematical sans-serif italic small w
1D639	x	x	x			x	x		\mitsansx	mathematical sans-serif italic small x
1D63A	y	y	y			y	y		\mitsansy	mathematical sans-serif italic small y
1D63B	z	z	z			z	z		\mitsansz	mathematical sans-serif italic small z

13.1.17 Typewriter, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D670	$\mathtt{A}$	$\mathtt{A}$	$\mathtt{A}$			$\mathtt{A}$	$\mathtt{A}$		\mttA	mathematical monospace capital a
1D671	$\mathtt{B}$	$\mathtt{B}$	$\mathtt{B}$			$\mathtt{B}$	$\mathtt{B}$		\mttB	mathematical monospace capital b
1D672	$\mathtt{C}$	$\mathtt{C}$	$\mathtt{C}$			$\mathtt{C}$	$\mathtt{C}$		\mttC	mathematical monospace capital c
1D673	$\mathtt{D}$	$\mathtt{D}$	$\mathtt{D}$			$\mathtt{D}$	$\mathtt{D}$		\mttD	mathematical monospace capital d
1D674	$\mathtt{E}$	$\mathtt{E}$	$\mathtt{E}$			$\mathtt{E}$	$\mathtt{E}$		\mttE	mathematical monospace capital e
1D675	$\mathtt{F}$	$\mathtt{F}$	$\mathtt{F}$			$\mathtt{F}$	$\mathtt{F}$		\mttF	mathematical monospace capital f
1D676	$\mathtt{G}$	$\mathtt{G}$	$\mathtt{G}$			$\mathtt{G}$	$\mathtt{G}$		\mttG	mathematical monospace capital g
1D677	$\mathtt{H}$	$\mathtt{H}$	$\mathtt{H}$			$\mathtt{H}$	$\mathtt{H}$		\mttH	mathematical monospace capital h
1D678	$\mathtt{I}$	$\mathtt{I}$	$\mathtt{I}$			$\mathtt{I}$	$\mathtt{I}$		\mttI	mathematical monospace capital i
1D679	$\mathtt{J}$	$\mathtt{J}$	$\mathtt{J}$			$\mathtt{J}$	$\mathtt{J}$		\mttJ	mathematical monospace capital j
1D67A	$\mathtt{K}$	$\mathtt{K}$	$\mathtt{K}$			$\mathtt{K}$	$\mathtt{K}$		\mttK	mathematical monospace capital k
1D67B	$\mathtt{L}$	$\mathtt{L}$	$\mathtt{L}$			$\mathtt{L}$	$\mathtt{L}$		\mttL	mathematical monospace capital l
1D67C	$\mathtt{M}$	$\mathtt{M}$	$\mathtt{M}$			$\mathtt{M}$	$\mathtt{M}$		\mttM	mathematical monospace capital m
1D67D	$\mathtt{N}$	$\mathtt{N}$	$\mathtt{N}$			$\mathtt{N}$	$\mathtt{N}$		\mttN	mathematical monospace capital n
1D67E	$\mathtt{O}$	$\mathtt{O}$	$\mathtt{O}$			$\mathtt{O}$	$\mathtt{O}$		\mttO	mathematical monospace capital o
1D67F	$\mathtt{P}$	$\mathtt{P}$	$\mathtt{P}$			$\mathtt{P}$	$\mathtt{P}$		\mttP	mathematical monospace capital p
1D680	$\mathtt{Q}$	$\mathtt{Q}$	$\mathtt{Q}$			$\mathtt{Q}$	$\mathtt{Q}$		\mttQ	mathematical monospace capital q
1D681	$\mathtt{R}$	$\mathtt{R}$	$\mathtt{R}$			$\mathtt{R}$	$\mathtt{R}$		\mttR	mathematical monospace capital r
1D682	$\mathtt{S}$	$\mathtt{S}$	$\mathtt{S}$			$\mathtt{S}$	$\mathtt{S}$		\mttS	mathematical monospace capital s
1D683	$\mathtt{T}$	$\mathtt{T}$	$\mathtt{T}$			$\mathtt{T}$	$\mathtt{T}$		\mttT	mathematical monospace capital t
1D684	$\mathtt{U}$	$\mathtt{U}$	$\mathtt{U}$			$\mathtt{U}$	$\mathtt{U}$		\mttU	mathematical monospace capital u
1D685	$\mathtt{V}$	$\mathtt{V}$	$\mathtt{V}$			$\mathtt{V}$	$\mathtt{V}$		\mttV	mathematical monospace capital v
1D686	$\mathtt{W}$	$\mathtt{W}$	$\mathtt{W}$			$\mathtt{W}$	$\mathtt{W}$		\mttW	mathematical monospace capital w
1D687	$\mathtt{X}$	$\mathtt{X}$	$\mathtt{X}$			$\mathtt{X}$	$\mathtt{X}$		\mttX	mathematical monospace capital x
1D688	$\mathtt{Y}$	$\mathtt{Y}$	$\mathtt{Y}$			$\mathtt{Y}$	$\mathtt{Y}$		\mttY	mathematical monospace capital y
1D689	$\mathtt{Z}$	$\mathtt{Z}$	$\mathtt{Z}$			$\mathtt{Z}$	$\mathtt{Z}$		\mttZ	mathematical monospace capital z

13.1.18 Typewriter, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D68A	a	a	a			a	a		\mtta	mathematical monospace small a
1D68B	b	b	b			b	b		\mttb	mathematical monospace small b
1D68C	c	c	c			c	c		\mttc	mathematical monospace small c
1D68D	d	d	d			d	d		\mttd	mathematical monospace small d
1D68E	e	e	e			e	e		\mtte	mathematical monospace small e
1D68F	f	f	f			f	f		\mttf	mathematical monospace small f
1D690	g	g	g			g	g		\mttg	mathematical monospace small g
1D691	h	h	h			h	h		\mtth	mathematical monospace small h
1D692	i	i	i			i	i		\mtti	mathematical monospace small i
1D693	j	j	j			j	j		\mttj	mathematical monospace small j
1D694	k	k	k			k	k		\mttk	mathematical monospace small k
1D695	l	l	l			l	l		\mttl	mathematical monospace small l
1D696	m	m	m			m	m		\mttm	mathematical monospace small m
1D697	n	n	n			n	n		\mttn	mathematical monospace small n
1D698	o	o	o			o	o		\mtto	mathematical monospace small o
1D699	p	p	p			p	p		\mttp	mathematical monospace small p
1D69A	q	q	q			q	q		\mttq	mathematical monospace small q
1D69B	r	r	r			r	r		\mttr	mathematical monospace small r
1D69C	s	s	s			s	s		\mtts	mathematical monospace small s
1D69D	t	t	t			t	t		\mttt	mathematical monospace small t
1D69E	u	u	u			u	u		\mttu	mathematical monospace small u
1D69F	v	v	v			v	v		\mttv	mathematical monospace small v
1D6A0	w	w	w			w	w		\mttw	mathematical monospace small w
1D6A1	x	x	x			x	x		\mttx	mathematical monospace small x
1D6A2	y	y	y			y	y		\mtty	mathematical monospace small y
1D6A3	z	z	z			z	z		\mttz	mathematical monospace small z

13.2 Bold

13.2.1 Bold, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D400	A	A	A			A	A	A	\mbfA	mathematical bold capital a
1D401	B	B	B			B	B	B	\mbfB	mathematical bold capital b
1D402	C	C	C			C	C	C	\mbfC	mathematical bold capital c
1D403	D	D	D			D	D	D	\mbfD	mathematical bold capital d
1D404	E	E	E			E	E	E	\mbfE	mathematical bold capital e
1D405	F	F	F			F	F	F	\mbfF	mathematical bold capital f
1D406	G	G	G			G	G	G	\mbfG	mathematical bold capital g
1D407	H	H	H			H	H	H	\mbfH	mathematical bold capital h
1D408	I	I	I			I	I	I	\mbfI	mathematical bold capital i
1D409	J	J	J			J	J	J	\mbfJ	mathematical bold capital j
1D40A	K	K	K			K	K	K	\mbfK	mathematical bold capital k
1D40B	L	L	L			L	L	L	\mbfL	mathematical bold capital l
1D40C	M	M	M			M	M	M	\mbfM	mathematical bold capital m

USV	M	X	C	L	D	A	P	E	Macro	Description
1D40D	𝐍	𝐍	𝐍			𝐍	𝐍	𝐍	\mbfN	mathematical bold capital n
1D40E	𝐎	𝐎	𝐎			𝐎	𝐎	𝐎	\mbfO	mathematical bold capital o
1D40F	𝐏	𝐏	𝐏			𝐏	𝐏	𝐏	\mbfP	mathematical bold capital p
1D410	𝐐	𝐐	𝐐			𝐐	𝐐	𝐐	\mbfQ	mathematical bold capital q
1D411	𝐑	𝐑	𝐑			𝐑	𝐑	𝐑	\mbfR	mathematical bold capital r
1D412	𝐒	𝐒	𝐒			𝐒	𝐒	𝐒	\mbfS	mathematical bold capital s
1D413	𝐓	𝐓	𝐓			𝐓	𝐓	𝐓	\mbfT	mathematical bold capital t
1D414	𝐔	𝐔	𝐔			𝐔	𝐔	𝐔	\mbfU	mathematical bold capital u
1D415	𝐕	𝐕	𝐕			𝐕	𝐕	𝐕	\mbfV	mathematical bold capital v
1D416	𝐖	𝐖	𝐖			𝐖	𝐖	𝐖	\mbfW	mathematical bold capital w
1D417	𝐗	𝐗	𝐗			𝐗	𝐗	𝐗	\mbfX	mathematical bold capital x
1D418	𝐘	𝐘	𝐘			𝐘	𝐘	𝐘	\mbfY	mathematical bold capital y
1D419	𝐙	𝐙	𝐙			𝐙	𝐙	𝐙	\mbfZ	mathematical bold capital z

13.2.2 Bold, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D41A	𝐚	𝐚	𝐚			𝐚	𝐚	𝐚	\mbfa	mathematical bold small a
1D41B	𝐛	𝐛	𝐛			𝐛	𝐛	𝐛	\mbfb	mathematical bold small b
1D41C	𝐜	𝐜	𝐜			𝐜	𝐜	𝐜	\mbfc	mathematical bold small c
1D41D	𝐝	𝐝	𝐝			𝐝	𝐝	𝐝	\mbfd	mathematical bold small d
1D41E	𝐞	𝐞	𝐞			𝐞	𝐞	𝐞	\mbfe	mathematical bold small e
1D41F	𝐟	𝐟	𝐟			𝐟	𝐟	𝐟	\mbff	mathematical bold small f
1D420	𝐠	𝐠	𝐠			𝐠	𝐠	𝐠	\mbfg	mathematical bold small g
1D421	𝐡	𝐡	𝐡			𝐡	𝐡	𝐡	\mbfh	mathematical bold small h
1D422	𝐢	𝐢	𝐢			𝐢	𝐢	𝐢	\mbfi	mathematical bold small i
1D423	𝐣	𝐣	𝐣			𝐣	𝐣	𝐣	\mbfj	mathematical bold small j
1D424	𝐤	𝐤	𝐤			𝐤	𝐤	𝐤	\mbfk	mathematical bold small k
1D425	𝐥	𝐥	𝐥			𝐥	𝐥	𝐥	\mbfl	mathematical bold small l
1D426	𝐦	𝐦	𝐦			𝐦	𝐦	𝐦	\mbfm	mathematical bold small m
1D427	𝐧	𝐧	𝐧			𝐧	𝐧	𝐧	\mbfn	mathematical bold small n
1D428	𝐨	𝐨	𝐨			𝐨	𝐨	𝐨	\mbfo	mathematical bold small o
1D429	𝐩	𝐩	𝐩			𝐩	𝐩	𝐩	\mbfp	mathematical bold small p
1D42A	𝐪	𝐪	𝐪			𝐪	𝐪	𝐪	\mbfq	mathematical bold small q
1D42B	𝐫	𝐫	𝐫			𝐫	𝐫	𝐫	\mbfr	mathematical bold small r
1D42C	𝐬	𝐬	𝐬			𝐬	𝐬	𝐬	\mbfs	mathematical bold small s
1D42D	𝐭	𝐭	𝐭			𝐭	𝐭	𝐭	\mbft	mathematical bold small t
1D42E	𝐮	𝐮	𝐮			𝐮	𝐮	𝐮	\mbfu	mathematical bold small u
1D42F	𝐯	𝐯	𝐯			𝐯	𝐯	𝐯	\mbfv	mathematical bold small v
1D430	𝐰	𝐰	𝐰			𝐰	𝐰	𝐰	\mbfw	mathematical bold small w
1D431	𝐱	𝐱	𝐱			𝐱	𝐱	𝐱	\mbfx	mathematical bold small x
1D432	𝐲	𝐲	𝐲			𝐲	𝐲	𝐲	\mbfy	mathematical bold small y
1D433	𝐳	𝐳	𝐳			𝐳	𝐳	𝐳	\mbfz	mathematical bold small z

13.2.3 Bold Greek, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D6A8	𝚨	𝚨	𝚨			𝚨	𝚨	𝚨	\mbfAlpha	mathematical bold capital alpha
1D6A9	𝚩	𝚩	𝚩			𝚩	𝚩	𝚩	\mbfBeta	mathematical bold capital beta
1D6AA	𝚪	𝚪	𝚪			𝚪	𝚪	𝚪	\mbfGamma	mathematical bold capital gamma
1D6AB	𝚫	𝚫	𝚫			𝚫	𝚫	𝚫	\mbfDelta	mathematical bold capital delta
1D6AC	𝚬	𝚬	𝚬			𝚬	𝚬	𝚬	\mbfEpsilon	mathematical bold capital epsilon
1D6AD	𝚭	𝚭	𝚭			𝚭	𝚭	𝚭	\mbfZeta	mathematical bold capital zeta
1D6AE	𝚮	𝚮	𝚮			𝚮	𝚮	𝚮	\mbfEta	mathematical bold capital eta
1D6AF	𝚯	𝚯	𝚯			𝚯	𝚯	𝚯	\mbfTheta	mathematical bold capital theta
1D6B0	𝚰	𝚰	𝚰			𝚰	𝚰	𝚰	\mbfIota	mathematical bold capital iota
1D6B1	𝚱	𝚱	𝚱			𝚱	𝚱	𝚱	\mbfKappa	mathematical bold capital kappa
1D6B2	𝚲	𝚲	𝚲			𝚲	𝚲	𝚲	\mbfLambda	mathematical bold capital lambda
1D6B3	𝚳	𝚳	𝚳			𝚳	𝚳	𝚳	\mbfMu	mathematical bold capital mu
1D6B4	𝚴	𝚴	𝚴			𝚴	𝚴	𝚴	\mbfNu	mathematical bold capital nu
1D6B5	𝚵	𝚵	𝚵			𝚵	𝚵	𝚵	\mbfXi	mathematical bold capital xi
1D6B6	𝚶	𝚶	𝚶			𝚶	𝚶	𝚶	\mbfOmicron	mathematical bold capital omicron
1D6B7	𝚷	𝚷	𝚷			𝚷	𝚷	𝚷	\mbfPi	mathematical bold capital pi
1D6B8	𝚸	𝚸	𝚸			𝚸	𝚸	𝚸	\mbfRho	mathematical bold capital rho
1D6B9	𝚹	𝚹	𝚹			𝚹	𝚹		\mbfvarTheta	mathematical bold capital theta symbol
1D6BA	𝚺	𝚺	𝚺			𝚺	𝚺	𝚺	\mbfSigma	mathematical bold capital sigma
1D6BB	𝚻	𝚻	𝚻			𝚻	𝚻	𝚻	\mbfTau	mathematical bold capital tau
1D6BC	𝚼	𝚼	𝚼			𝚼	𝚼	𝚼	\mbfUpsilon	mathematical bold capital upsilon
1D6BD	𝚽	𝚽	𝚽			𝚽	𝚽	𝚽	\mbfPhi	mathematical bold capital phi
1D6BE	𝚾	𝚾	𝚾			𝚾	𝚾	𝚾	\mbfChi	mathematical bold capital chi
1D6BF	𝚿	𝚿	𝚿			𝚿	𝚿	𝚿	\mbfPsi	mathematical bold capital psi
1D6C0	𝛀	𝛀	𝛀			𝛀	𝛀	𝛀	\mbfOmega	mathematical bold capital omega

13.2.4 Bold Greek, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D6C2	𝛂	𝛂	𝛂			𝛂	𝛂	𝛂	\mbfalpha	mathematical bold small alpha
1D6C3	𝛃	𝛃	𝛃			𝛃	𝛃	𝛃	\mbfbeta	mathematical bold small beta
1D6C4	𝛄	𝛄	𝛄			𝛄	𝛄	𝛄	\mbfgamma	mathematical bold small gamma
1D6C5	𝛅	𝛅	𝛅			𝛅	𝛅	𝛅	\mbfdelta	mathematical bold small delta
1D6C6	𝛆	𝛆	𝛆			𝛆	𝛆	𝛆	\mbfepsilon	mathematical bold small epsilon
1D6C7	𝛇	𝛇	𝛇			𝛇	𝛇	𝛇	\mbfzeta	mathematical bold small zeta
1D6C8	𝛈	𝛈	𝛈			𝛈	𝛈	𝛈	\mbfeta	mathematical bold small eta
1D6C9	𝛉	𝛉	𝛉			𝛉	𝛉	𝛉	\mbftheta	mathematical bold small theta
1D6CA	𝛊	𝛊	𝛊			𝛊	𝛊	𝛊	\mbfiota	mathematical bold small iota
1D6CB	𝛋	𝛋	𝛋			𝛋	𝛋	𝛋	\mbfkappa	mathematical bold small kappa
1D6CC	𝛌	𝛌	𝛌			𝛌	𝛌	𝛌	\mbflambda	mathematical bold small lambda
1D6CD	𝛍	𝛍	𝛍			𝛍	𝛍	𝛍	\mbfmu	mathematical bold small mu
1D6CE	𝛎	𝛎	𝛎			𝛎	𝛎	𝛎	\mbfnu	mathematical bold small nu
1D6CF	𝛏	𝛏	𝛏			𝛏	𝛏	𝛏	\mbfxi	mathematical bold small xi
1D6D0	𝛐	𝛐	𝛐			𝛐	𝛐	𝛐	\mbfomicron	mathematical bold small omicron
1D6D1	𝛑	𝛑	𝛑			𝛑	𝛑	𝛑	\mbfpi	mathematical bold small pi
1D6D2	𝛒	𝛒	𝛒			𝛒	𝛒	𝛒	\mbfrho	mathematical bold small rho
1D6D3	𝛓	𝛓	𝛓			𝛓	𝛓		\mbfvarsigma	mathematical bold small final sigma
1D6D4	𝛔	𝛔	𝛔			𝛔	𝛔	𝛔	\mbfsigma	mathematical bold small sigma

USV	M	X	C	L	D	A	P	E	Macro	Description
1D6D5	𝛕	𝛕	𝛕			𝛕	𝛕	𝛕	\mbftau	mathematical bold small tau
1D6D6	𝛖	𝛖	𝛖			𝛖	𝛖	𝛖	\mbfupsilon	mathematical bold small upsilon
1D6D7	𝛗	𝛗	𝛗			𝛗	𝛗	𝛗	\mbfvarphi	mathematical bold small phi
1D6D8	𝛘	𝛘	𝛘			𝛘	𝛘	𝛘	\mbfchi	mathematical bold small chi
1D6D9	𝛙	𝛙	𝛙			𝛙	𝛙	𝛙	\mbfpsi	mathematical bold small psi
1D6DA	𝛚	𝛚	𝛚			𝛚	𝛚	𝛚	\mbfomega	mathematical bold small omega
1D6DB	𝛛	𝛛	𝛛			𝛛	𝛛	𝛛	\mbfpartial	mathematical bold partial differential
1D6DC	𝛜	𝛜	𝛜			𝛜	𝛜	𝛜	\mbfvarepsilon	mathematical bold epsilon symbol
1D6DD	𝛝	𝛝	𝛝			𝛝	𝛝	𝛝	\mbfvartheta	mathematical bold theta symbol
1D6DE	𝛞	𝛞	𝛞			𝛞	𝛞		\mbfvarkappa	mathematical bold kappa symbol
1D6DF	𝛟	𝛟	𝛟			𝛟	𝛟	𝛟	\mbfphi	mathematical bold phi symbol
1D6E0	𝛠	𝛠	𝛠			𝛠	𝛠		\mbfvarrho	mathematical bold rho symbol
1D6E1	𝛡	𝛡	𝛡			𝛡	𝛡	𝛡	\mbfvarpi	mathematical bold pi symbol

13.2.5 Bold italic, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D468	𝑨	𝑨	𝑨			𝑨	𝑨		\mbfitA	mathematical bold italic capital a
1D469	𝑩	𝑩	𝑩			𝑩	𝑩		\mbfitB	mathematical bold italic capital b
1D46A	𝑪	𝑪	𝑪			𝑪	𝑪		\mbfitC	mathematical bold italic capital c
1D46B	𝑫	𝑫	𝑫			𝑫	𝑫		\mbfitD	mathematical bold italic capital d
1D46C	𝑬	𝑬	𝑬			𝑬	𝑬		\mbfitE	mathematical bold italic capital e
1D46D	𝑭	𝑭	𝑭			𝑭	𝑭		\mbfitF	mathematical bold italic capital f
1D46E	𝑮	𝑮	𝑮			𝑮	𝑮		\mbfitG	mathematical bold italic capital g
1D46F	𝑯	𝑯	𝑯			𝑯	𝑯		\mbfitH	mathematical bold italic capital h
1D470	𝑰	𝑰	𝑰			𝑰	𝑰		\mbfitI	mathematical bold italic capital i
1D471	𝑱	𝑱	𝑱			𝑱	𝑱		\mbfitJ	mathematical bold italic capital j
1D472	𝑲	𝑲	𝑲			𝑲	𝑲		\mbfitK	mathematical bold italic capital k
1D473	𝑳	𝑳	𝑳			𝑳	𝑳		\mbfitL	mathematical bold italic capital l
1D474	𝑴	𝑴	𝑴			𝑴	𝑴		\mbfitM	mathematical bold italic capital m
1D475	𝑵	𝑵	𝑵			𝑵	𝑵		\mbfitN	mathematical bold italic capital n
1D476	𝑶	𝑶	𝑶			𝑶	𝑶		\mbfitO	mathematical bold italic capital o
1D477	𝑷	𝑷	𝑷			𝑷	𝑷		\mbfitP	mathematical bold italic capital p
1D478	𝑸	𝑸	𝑸			𝑸	𝑸		\mbfitQ	mathematical bold italic capital q
1D479	𝑹	𝑹	𝑹			𝑹	𝑹		\mbfitR	mathematical bold italic capital r
1D47A	𝑺	𝑺	𝑺			𝑺	𝑺		\mbfitS	mathematical bold italic capital s
1D47B	𝑻	𝑻	𝑻			𝑻	𝑻		\mbfitT	mathematical bold italic capital t
1D47C	𝑼	𝑼	𝑼			𝑼	𝑼		\mbfitU	mathematical bold italic capital u
1D47D	𝑽	𝑽	𝑽			𝑽	𝑽		\mbfitV	mathematical bold italic capital v
1D47E	𝑾	𝑾	𝑾			𝑾	𝑾		\mbfitW	mathematical bold italic capital w
1D47F	𝑿	𝑿	𝑿			𝑿	𝑿		\mbfitX	mathematical bold italic capital x
1D480	𝒀	𝒀	𝒀			𝒀	𝒀		\mbfitY	mathematical bold italic capital y
1D481	𝒁	𝒁	𝒁			𝒁	𝒁		\mbfitZ	mathematical bold italic capital z

13.2.6 Bold italic, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D482	𝒂	𝒂	𝒂			𝒂	𝒂		\mbfita	mathematical bold italic small a
1D483	𝒃	𝒃	𝒃			𝒃	𝒃		\mbfitb	mathematical bold italic small b
1D484	𝒄	𝒄	𝒄			𝒄	𝒄		\mbfitc	mathematical bold italic small c
1D485	𝒅	𝒅	𝒅			𝒅	𝒅		\mbfitd	mathematical bold italic small d
1D486	𝒆	𝒆	𝒆			𝒆	𝒆		\mbfite	mathematical bold italic small e
1D487	𝒇	𝒇	𝒇			𝒇	𝒇		\mbfitf	mathematical bold italic small f
1D488	𝒈	𝒈	𝒈			𝒈	𝒈		\mbfitg	mathematical bold italic small g
1D489	𝒉	𝒉	𝒉			𝒉	𝒉		\mbfith	mathematical bold italic small h
1D48A	𝒊	𝒊	𝒊			𝒊	𝒊		\mbfiti	mathematical bold italic small i
1D48B	𝒋	𝒋	𝒋			𝒋	𝒋		\mbfitj	mathematical bold italic small j
1D48C	𝒌	𝒌	𝒌			𝒌	𝒌		\mbfitk	mathematical bold italic small k
1D48D	𝒍	𝒍	𝒍			𝒍	𝒍		\mbfitl	mathematical bold italic small l
1D48E	𝒎	𝒎	𝒎			𝒎	𝒎		\mbfitm	mathematical bold italic small m
1D48F	𝒏	𝒏	𝒏			𝒏	𝒏		\mbfitn	mathematical bold italic small n
1D490	𝒐	𝒐	𝒐			𝒐	𝒐		\mbfito	mathematical bold italic small o
1D491	𝒑	𝒑	𝒑			𝒑	𝒑		\mbfitp	mathematical bold italic small p
1D492	𝒒	𝒒	𝒒			𝒒	𝒒		\mbfitq	mathematical bold italic small q
1D493	𝒓	𝒓	𝒓			𝒓	𝒓		\mbfitr	mathematical bold italic small r
1D494	𝒔	𝒔	𝒔			𝒔	𝒔		\mbfits	mathematical bold italic small s
1D495	𝒕	𝒕	𝒕			𝒕	𝒕		\mbfitt	mathematical bold italic small t
1D496	𝒖	𝒖	𝒖			𝒖	𝒖		\mbfitu	mathematical bold italic small u
1D497	𝒗	𝒗	𝒗			𝒗	𝒗		\mbfitv	mathematical bold italic small v
1D498	𝒘	𝒘	𝒘			𝒘	𝒘		\mbfitw	mathematical bold italic small w
1D499	𝒙	𝒙	𝒙			𝒙	𝒙		\mbfitx	mathematical bold italic small x
1D49A	𝒚	𝒚	𝒚			𝒚	𝒚		\mbfity	mathematical bold italic small y
1D49B	𝒛	𝒛	𝒛			𝒛	𝒛		\mbfitz	mathematical bold italic small z

13.2.7 Bold italic Greek, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D71C	𝜜	𝜜	𝜜			𝜜	𝜜		\mbfitAlpha	mathematical bold italic capital alpha
1D71D	𝜝	𝜝	𝜝			𝜝	𝜝		\mbfitBeta	mathematical bold italic capital beta
1D71E	𝜞	𝜞	𝜞			𝜞	𝜞		\mbfitGamma	mathematical bold italic capital gamma
1D71F	𝜟	𝜟	𝜟			𝜟	𝜟		\mbfitDelta	mathematical bold italic capital delta
1D720	𝜠	𝜠	𝜠			𝜠	𝜠		\mbfitEpsilon	mathematical bold italic capital epsilon
1D721	𝜡	𝜡	𝜡			𝜡	𝜡		\mbfitZeta	mathematical bold italic capital zeta
1D722	𝜢	𝜢	𝜢			𝜢	𝜢		\mbfitEta	mathematical bold italic capital eta
1D723	𝜣	𝜣	𝜣			𝜣	𝜣		\mbfitTheta	mathematical bold italic capital theta
1D724	𝜤	𝜤	𝜤			𝜤	𝜤		\mbfitIota	mathematical bold italic capital iota
1D725	𝜥	𝜥	𝜥			𝜥	𝜥		\mbfitKappa	mathematical bold italic capital kappa
1D726	𝜦	𝜦	𝜦			𝜦	𝜦		\mbfitLambda	mathematical bold italic capital lambda
1D727	𝜧	𝜧	𝜧			𝜧	𝜧		\mbfitMu	mathematical bold italic capital mu
1D728	𝜨	𝜨	𝜨			𝜨	𝜨		\mbfitNu	mathematical bold italic capital nu
1D729	𝜩	𝜩	𝜩			𝜩	𝜩		\mbfitXi	mathematical bold italic capital xi
1D72A	𝜪	𝜪	𝜪			𝜪	𝜪		\mbfitOmicron	mathematical bold italic capital omicron
1D72B	𝜫	𝜫	𝜫			𝜫	𝜫		\mbfitPi	mathematical bold italic capital pi
1D72C	𝜬	𝜬	𝜬			𝜬	𝜬		\mbfitRho	mathematical bold italic capital rho

USV	M	X	C	L	D	A	P	E	Macro	Description
1D72D	𝜭	𝜭	𝜭			𝜭	𝜭		\mbfitvarTheta	mathematical bold italic capital theta symbol
1D72E	𝜮	𝜮	𝜮			𝜮	𝜮		\mbfitSigma	mathematical bold italic capital sigma
1D72F	𝜯	𝜯	𝜯			𝜯	𝜯		\mbfitTau	mathematical bold italic capital tau
1D730	𝜰	𝜰	𝜰			𝜰	𝜰		\mbfitUpsilon	mathematical bold italic capital upsilon
1D731	𝜱	𝜱	𝜱			𝜱	𝜱		\mbfitPhi	mathematical bold italic capital phi
1D732	𝜲	𝜲	𝜲			𝜲	𝜲		\mbfitChi	mathematical bold italic capital chi
1D733	𝜳	𝜳	𝜳			𝜳	𝜳		\mbfitPsi	mathematical bold italic capital psi
1D734	𝜴	𝜴	𝜴			𝜴	𝜴		\mbfitOmega	mathematical bold italic capital omega

13.2.8 Bold italic Greek, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D736	𝜶	𝜶	𝜶			𝜶	𝜶		\mbfitalpha	mathematical bold italic small alpha
1D737	𝜷	𝜷	𝜷			𝜷	𝜷		\mbfitbeta	mathematical bold italic small beta
1D738	𝜸	𝜸	𝜸			𝜸	𝜸		\mbfitgamma	mathematical bold italic small gamma
1D739	𝜹	𝜹	𝜹			𝜹	𝜹		\mbfitdelta	mathematical bold italic small delta
1D73A	𝜺	𝜺	𝜺			𝜺	𝜺		\mbfitepsilon	mathematical bold italic small epsilon
1D73B	𝜻	𝜻	𝜻			𝜻	𝜻		\mbfitzeta	mathematical bold italic small zeta
1D73C	𝜼	𝜼	𝜼			𝜼	𝜼		\mbfiteta	mathematical bold italic small eta
1D73D	𝜽	𝜽	𝜽			𝜽	𝜽		\mbfittheta	mathematical bold italic small theta
1D73E	𝜾	𝜾	𝜾			𝜾	𝜾		\mbfitiota	mathematical bold italic small iota
1D73F	𝜿	𝜿	𝜿			𝜿	𝜿		\mbfitkappa	mathematical bold italic small kappa
1D740	𝝀	𝝀	𝝀			𝝀	𝝀		\mbfitlambda	mathematical bold italic small lambda
1D741	𝝁	𝝁	𝝁			𝝁	𝝁		\mbfitmu	mathematical bold italic small mu
1D742	𝝂	𝝂	𝝂			𝝂	𝝂		\mbfitnu	mathematical bold italic small nu
1D743	𝝃	𝝃	𝝃			𝝃	𝝃		\mbfitxi	mathematical bold italic small xi
1D744	𝝄	𝝄	𝝄			𝝄	𝝄		\mbfitomicron	mathematical bold italic small omicron
1D745	𝝅	𝝅	𝝅			𝝅	𝝅		\mbfitpi	mathematical bold italic small pi
1D746	𝝆	𝝆	𝝆			𝝆	𝝆		\mbfitrho	mathematical bold italic small rho
1D747	𝝇	𝝇	𝝇			𝝇	𝝇		\mbfitvarsigma	mathematical bold italic small final sigma
1D748	𝝈	𝝈	𝝈			𝝈	𝝈		\mbfitsigma	mathematical bold italic small sigma
1D749	𝝉	𝝉	𝝉			𝝉	𝝉		\mbfittau	mathematical bold italic small tau
1D74A	𝝊	𝝊	𝝊			𝝊	𝝊		\mbfitupsilon	mathematical bold italic small upsilon
1D74B	𝝋	𝝋	𝝋			𝝋	𝝋		\mbfitphi	mathematical bold italic small phi
1D74C	𝝌	𝝌	𝝌			𝝌	𝝌		\mbfitchi	mathematical bold italic small chi
1D74D	𝝍	𝝍	𝝍			𝝍	𝝍		\mbfitpsi	mathematical bold italic small psi
1D74E	𝝎	𝝎	𝝎			𝝎	𝝎		\mbfitomega	mathematical bold italic small omega
1D74F	𝝏	𝝏	𝝏			𝝏	𝝏		\mbfitpartial	mathematical bold italic partial differential
1D750	𝝐	𝝐	𝝐			𝝐	𝝐		\mbfitvarepsilon	mathematical bold italic epsilon symbol
1D751	𝝑	𝝑	𝝑			𝝑	𝝑		\mbfitvartheta	mathematical bold italic theta symbol
1D752	𝝒	𝝒	𝝒			𝝒	𝝒		\mbfitvarkappa	mathematical bold italic kappa symbol
1D753	𝝓	𝝓	𝝓			𝝓	𝝓		\mbfitvarphi	mathematical bold italic phi symbol
1D754	𝝔	𝝔	𝝔			𝝔	𝝔		\mbfitvarrho	mathematical bold italic rho symbol
1D755	𝝕	𝝕	𝝕			𝝕	𝝕		\mbfitvarpi	mathematical bold italic pi symbol

13.2.9 Bold script, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D4D0	𝓐	𝓐	𝓐			𝓐	𝓐	𝓐	\mbfscrA	mathematical bold script capital a
1D4D1	𝓑	𝓑	𝓑			𝓑	𝓑	𝓑	\mbfscrB	mathematical bold script capital b
1D4D2	𝓒	𝓒	𝓒			𝓒	𝓒	𝓒	\mbfscrC	mathematical bold script capital c
1D4D3	𝓓	𝓓	𝓓			𝓓	𝓓	𝓓	\mbfscrD	mathematical bold script capital d
1D4D4	𝓔	𝓔	𝓔			𝓔	𝓔	𝓔	\mbfscrE	mathematical bold script capital e
1D4D5	𝓕	𝓕	𝓕			𝓕	𝓕	𝓕	\mbfscrF	mathematical bold script capital f
1D4D6	𝓖	𝓖	𝓖			𝓖	𝓖	𝓖	\mbfscrG	mathematical bold script capital g
1D4D7	𝓗	𝓗	𝓗			𝓗	𝓗	𝓗	\mbfscrH	mathematical bold script capital h
1D4D8	𝓘	𝓘	𝓘			𝓘	𝓘	𝓘	\mbfscrI	mathematical bold script capital i
1D4D9	𝓙	𝓙	𝓙			𝓙	𝓙	𝓙	\mbfscrJ	mathematical bold script capital j
1D4DA	𝓚	𝓚	𝓚			𝓚	𝓚	𝓚	\mbfscrK	mathematical bold script capital k
1D4DB	𝓛	𝓛	𝓛			𝓛	𝓛	𝓛	\mbfscrL	mathematical bold script capital l
1D4DC	𝓜	𝓜	𝓜			𝓜	𝓜	𝓜	\mbfscrM	mathematical bold script capital m
1D4DD	𝓝	𝓝	𝓝			𝓝	𝓝	𝓝	\mbfscrN	mathematical bold script capital n
1D4DE	𝓞	𝓞	𝓞			𝓞	𝓞	𝓞	\mbfscrO	mathematical bold script capital o
1D4DF	𝓟	𝓟	𝓟			𝓟	𝓟	𝓟	\mbfscrP	mathematical bold script capital p
1D4E0	𝓠	𝓠	𝓠			𝓠	𝓠	𝓠	\mbfscrQ	mathematical bold script capital q
1D4E1	𝓡	𝓡	𝓡			𝓡	𝓡	𝓡	\mbfscrR	mathematical bold script capital r
1D4E2	𝓢	𝓢	𝓢			𝓢	𝓢	𝓢	\mbfscrS	mathematical bold script capital s
1D4E3	𝓣	𝓣	𝓣			𝓣	𝓣	𝓣	\mbfscrT	mathematical bold script capital t
1D4E4	𝓤	𝓤	𝓤			𝓤	𝓤	𝓤	\mbfscrU	mathematical bold script capital u
1D4E5	𝓥	𝓥	𝓥			𝓥	𝓥	𝓥	\mbfscrV	mathematical bold script capital v
1D4E6	𝓦	𝓦	𝓦			𝓦	𝓦	𝓦	\mbfscrW	mathematical bold script capital w
1D4E7	𝓧	𝓧	𝓧			𝓧	𝓧	𝓧	\mbfscrX	mathematical bold script capital x
1D4E8	𝓨	𝓨	𝓨			𝓨	𝓨	𝓨	\mbfscrY	mathematical bold script capital y
1D4E9	𝓩	𝓩	𝓩			𝓩	𝓩	𝓩	\mbfscrZ	mathematical bold script capital z

13.2.10 Bold script, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D4EA		𝓪	𝓪			𝓪	𝓪		\mbfscra	mathematical bold script small a
1D4EB		𝓫	𝓫			𝓫	𝓫		\mbfscrb	mathematical bold script small b
1D4EC		𝓬	𝓬			𝓬	𝓬		\mbfscrc	mathematical bold script small c
1D4ED		𝓭	𝓭			𝓭	𝓭		\mbfscrd	mathematical bold script small d
1D4EE		𝓮	𝓮			𝓮	𝓮		\mbfscre	mathematical bold script small e
1D4EF		𝓯	𝓯			𝓯	𝓯		\mbfscrf	mathematical bold script small f
1D4F0		𝓰	𝓰			𝓰	𝓰		\mbfscrg	mathematical bold script small g
1D4F1		𝓱	𝓱			𝓱	𝓱		\mbfscrh	mathematical bold script small h
1D4F2		𝓲	𝓲			𝓲	𝓲		\mbfscri	mathematical bold script small i
1D4F3		𝓳	𝓳			𝓳	𝓳		\mbfscrj	mathematical bold script small j
1D4F4		𝓴	𝓴			𝓴	𝓴		\mbfscrk	mathematical bold script small k
1D4F5		𝓵	𝓵			𝓵	𝓵		\mbfscrl	mathematical bold script small l
1D4F6		𝓶	𝓶			𝓶	𝓶		\mbfscrm	mathematical bold script small m
1D4F7		𝓷	𝓷			𝓷	𝓷		\mbfscrn	mathematical bold script small n
1D4F8		𝓸	𝓸			𝓸	𝓸		\mbfscro	mathematical bold script small o

USV	M	X	C	L	D	A	P	E	Macro	Description
1D4F9		𝓹	𝓹			𝓹	𝓹		\mbfscrp	mathematical bold script small p
1D4FA		𝓺	𝓺			𝓺	𝓺		\mbfscrq	mathematical bold script small q
1D4FB		𝓻	𝓻			𝓻	𝓻		\mbfscrr	mathematical bold script small r
1D4FC		𝓼	𝓼			𝓼	𝓼		\mbfscrs	mathematical bold script small s
1D4FD		𝓽	𝓽			𝓽	𝓽		\mbfscrt	mathematical bold script small t
1D4FE		𝓾	𝓾			𝓾	𝓾		\mbfscru	mathematical bold script small u
1D4FF		𝓿	𝓿			𝓿	𝓿		\mbfscrv	mathematical bold script small v
1D500		𝔀	𝔀			𝔀	𝔀		\mbfscrw	mathematical bold script small w
1D501		𝔁	𝔁			𝔁	𝔁		\mbfscrx	mathematical bold script small x
1D502		𝔂	𝔂			𝔂	𝔂		\mbfscry	mathematical bold script small y
1D503		𝔃	𝔃			𝔃	𝔃		\mbfscrz	mathematical bold script small z

13.2.11 Bold fraktur, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D56C	𝕬	𝕬	𝕬			𝕬	𝕬	𝕬	\mbffrakA	mathematical bold fraktur capital a
1D56D	𝕭	𝕭	𝕭			𝕭	𝕭	𝕭	\mbffrakB	mathematical bold fraktur capital b
1D56E	𝕮	𝕮	𝕮			𝕮	𝕮	𝕮	\mbffrakC	mathematical bold fraktur capital c
1D56F	𝕯	𝕯	𝕯			𝕯	𝕯	𝕯	\mbffrakD	mathematical bold fraktur capital d
1D570	𝕰	𝕰	𝕰			𝕰	𝕰	𝕰	\mbffrakE	mathematical bold fraktur capital e
1D571	𝕱	𝕱	𝕱			𝕱	𝕱	𝕱	\mbffrakF	mathematical bold fraktur capital f
1D572	𝕲	𝕲	𝕲			𝕲	𝕲	𝕲	\mbffrakG	mathematical bold fraktur capital g
1D573	𝕳	𝕳	𝕳			𝕳	𝕳	𝕳	\mbffrakH	mathematical bold fraktur capital h
1D574	𝕴	𝕴	𝕴			𝕴	𝕴	𝕴	\mbffrakI	mathematical bold fraktur capital i
1D575	𝕵	𝕵	𝕵			𝕵	𝕵	𝕵	\mbffrakJ	mathematical bold fraktur capital j
1D576	𝕶	𝕶	𝕶			𝕶	𝕶	𝕶	\mbffrakK	mathematical bold fraktur capital k
1D577	𝕷	𝕷	𝕷			𝕷	𝕷	𝕷	\mbffrakL	mathematical bold fraktur capital l
1D578	𝕸	𝕸	𝕸			𝕸	𝕸	𝕸	\mbffrakM	mathematical bold fraktur capital m
1D579	𝕹	𝕹	𝕹			𝕹	𝕹	𝕹	\mbffrakN	mathematical bold fraktur capital n
1D57A	𝕺	𝕺	𝕺			𝕺	𝕺	𝕺	\mbffrakO	mathematical bold fraktur capital o
1D57B	𝕻	𝕻	𝕻			𝕻	𝕻	𝕻	\mbffrakP	mathematical bold fraktur capital p
1D57C	𝕼	𝕼	𝕼			𝕼	𝕼	𝕼	\mbffrakQ	mathematical bold fraktur capital q
1D57D	𝕽	𝕽	𝕽			𝕽	𝕽	𝕽	\mbffrakR	mathematical bold fraktur capital r
1D57E	𝕾	𝕾	𝕾			𝕾	𝕾	𝕾	\mbffrakS	mathematical bold fraktur capital s
1D57F	𝕿	𝕿	𝕿			𝕿	𝕿	𝕿	\mbffrakT	mathematical bold fraktur capital t
1D580	𝖀	𝖀	𝖀			𝖀	𝖀	𝖀	\mbffrakU	mathematical bold fraktur capital u
1D581	𝖁	𝖁	𝖁			𝖁	𝖁	𝖁	\mbffrakV	mathematical bold fraktur capital v
1D582	𝖂	𝖂	𝖂			𝖂	𝖂	𝖂	\mbffrakW	mathematical bold fraktur capital w
1D583	𝖃	𝖃	𝖃			𝖃	𝖃	𝖃	\mbffrakX	mathematical bold fraktur capital x
1D584	𝖄	𝖄	𝖄			𝖄	𝖄	𝖄	\mbffrakY	mathematical bold fraktur capital y
1D585	𝖅	𝖅	𝖅			𝖅	𝖅	𝖅	\mbffrakZ	mathematical bold fraktur capital z

13.2.12 Bold fraktur, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D586	𝖆	𝖆	𝖆			𝖆	𝖆	𝖆	\mbffraka	mathematical bold fraktur small a
1D587	𝖇	𝖇	𝖇			𝖇	𝖇	𝖇	\mbffrakb	mathematical bold fraktur small b
1D588	𝖈	𝖈	𝖈			𝖈	𝖈	𝖈	\mbffrakc	mathematical bold fraktur small c
1D589	𝖉	𝖉	𝖉			𝖉	𝖉	𝖉	\mbffrakd	mathematical bold fraktur small d
1D58A	𝖊	𝖊	𝖊			𝖊	𝖊	𝖊	\mbffrake	mathematical bold fraktur small e
1D58B	𝖋	𝖋	𝖋			𝖋	𝖋	𝖋	\mbffrakf	mathematical bold fraktur small f
1D58C	𝖌	𝖌	𝖌			𝖌	𝖌	𝖌	\mbffrakg	mathematical bold fraktur small g
1D58D	𝖍	𝖍	𝖍			𝖍	𝖍	𝖍	\mbffrakh	mathematical bold fraktur small h
1D58E	𝖎	𝖎	𝖎			𝖎	𝖎	𝖎	\mbffraki	mathematical bold fraktur small i
1D58F	𝖏	𝖏	𝖏			𝖏	𝖏	𝖏	\mbffrakj	mathematical bold fraktur small j
1D590	𝖐	𝖐	𝖐			𝖐	𝖐	𝖐	\mbffrakk	mathematical bold fraktur small k
1D591	𝖑	𝖑	𝖑			𝖑	𝖑	𝖑	\mbffrakl	mathematical bold fraktur small l
1D592	𝖒	𝖒	𝖒			𝖒	𝖒	𝖒	\mbffrakm	mathematical bold fraktur small m
1D593	𝖓	𝖓	𝖓			𝖓	𝖓	𝖓	\mbffrakn	mathematical bold fraktur small n
1D594	𝖔	𝖔	𝖔			𝖔	𝖔	𝖔	\mbffrako	mathematical bold fraktur small o
1D595	𝖕	𝖕	𝖕			𝖕	𝖕	𝖕	\mbffrakp	mathematical bold fraktur small p
1D596	𝖖	𝖖	𝖖			𝖖	𝖖	𝖖	\mbffrakq	mathematical bold fraktur small q
1D597	𝖗	𝖗	𝖗			𝖗	𝖗	𝖗	\mbffrakr	mathematical bold fraktur small r
1D598	𝖘	𝖘	𝖘			𝖘	𝖘	𝖘	\mbffraks	mathematical bold fraktur small s
1D599	𝖙	𝖙	𝖙			𝖙	𝖙	𝖙	\mbffrakt	mathematical bold fraktur small t
1D59A	𝖚	𝖚	𝖚			𝖚	𝖚	𝖚	\mbffraku	mathematical bold fraktur small u
1D59B	𝖛	𝖛	𝖛			𝖛	𝖛	𝖛	\mbffrakv	mathematical bold fraktur small v
1D59C	𝖜	𝖜	𝖜			𝖜	𝖜	𝖜	\mbffrakw	mathematical bold fraktur small w
1D59D	𝖝	𝖝	𝖝			𝖝	𝖝	𝖝	\mbffrakx	mathematical bold fraktur small x
1D59E	𝖞	𝖞	𝖞			𝖞	𝖞	𝖞	\mbffraky	mathematical bold fraktur small y
1D59F	𝖟	𝖟	𝖟			𝖟	𝖟	𝖟	\mbffrakz	mathematical bold fraktur small z

13.2.13 Bold sans serif, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D5D4	𝗔	𝗔	𝗔			𝗔	𝗔		\mbfsansA	mathematical sans-serif bold capital a
1D5D5	𝗕	𝗕	𝗕			𝗕	𝗕		\mbfsansB	mathematical sans-serif bold capital b
1D5D6	𝗖	𝗖	𝗖			𝗖	𝗖		\mbfsansC	mathematical sans-serif bold capital c
1D5D7	𝗗	𝗗	𝗗			𝗗	𝗗		\mbfsansD	mathematical sans-serif bold capital d
1D5D8	𝗘	𝗘	𝗘			𝗘	𝗘		\mbfsansE	mathematical sans-serif bold capital e
1D5D9	𝗙	𝗙	𝗙			𝗙	𝗙		\mbfsansF	mathematical sans-serif bold capital f
1D5DA	𝗚	𝗚	𝗚			𝗚	𝗚		\mbfsansG	mathematical sans-serif bold capital g
1D5DB	𝗛	𝗛	𝗛			𝗛	𝗛		\mbfsansH	mathematical sans-serif bold capital h
1D5DC	𝗜	𝗜	𝗜			𝗜	𝗜		\mbfsansI	mathematical sans-serif bold capital i
1D5DD	𝗝	𝗝	𝗝			𝗝	𝗝		\mbfsansJ	mathematical sans-serif bold capital j
1D5DE	𝗞	𝗞	𝗞			𝗞	𝗞		\mbfsansK	mathematical sans-serif bold capital k
1D5DF	𝗟	𝗟	𝗟			𝗟	𝗟		\mbfsansL	mathematical sans-serif bold capital l
1D5E0	𝗠	𝗠	𝗠			𝗠	𝗠		\mbfsansM	mathematical sans-serif bold capital m
1D5E1	𝗡	𝗡	𝗡			𝗡	𝗡		\mbfsansN	mathematical sans-serif bold capital n
1D5E2	𝗢	𝗢	𝗢			𝗢	𝗢		\mbfsansO	mathematical sans-serif bold capital o
1D5E3	𝗣	𝗣	𝗣			𝗣	𝗣		\mbfsansP	mathematical sans-serif bold capital p
1D5E4	𝗤	𝗤	𝗤			𝗤	𝗤		\mbfsansQ	mathematical sans-serif bold capital q

USV	M	X	C	L	D	A	P	E	Macro	Description
1D5E5	R	R	R			R	R		\mbfsansR	mathematical sans-serif bold capital r
1D5E6	S	S	S			S	S		\mbfsansS	mathematical sans-serif bold capital s
1D5E7	T	T	T			T	T		\mbfsansT	mathematical sans-serif bold capital t
1D5E8	U	U	U			U	U		\mbfsansU	mathematical sans-serif bold capital u
1D5E9	V	V	V			V	V		\mbfsansV	mathematical sans-serif bold capital v
1D5EA	W	W	W			W	W		\mbfsansW	mathematical sans-serif bold capital w
1D5EB	X	X	X			X	X		\mbfsansX	mathematical sans-serif bold capital x
1D5EC	Y	Y	Y			Y	Y		\mbfsansY	mathematical sans-serif bold capital y
1D5ED	Z	Z	Z			Z	Z		\mbfsansZ	mathematical sans-serif bold capital z

13.2.14 Bold sans serif, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D5EE	a	a	a			a	a		\mbfsansa	mathematical sans-serif bold small a
1D5EF	b	b	b			b	b		\mbfsansb	mathematical sans-serif bold small b
1D5F0	c	c	c			c	c		\mbfsansc	mathematical sans-serif bold small c
1D5F1	d	d	d			d	d		\mbfsansd	mathematical sans-serif bold small d
1D5F2	e	e	e			e	e		\mbfsanse	mathematical sans-serif bold small e
1D5F3	f	f	f			f	f		\mbfsansf	mathematical sans-serif bold small f
1D5F4	g	g	g			g	g		\mbfsansg	mathematical sans-serif bold small g
1D5F5	h	h	h			h	h		\mbfsansh	mathematical sans-serif bold small h
1D5F6	i	i	i			i	i		\mbfsansi	mathematical sans-serif bold small i
1D5F7	j	j	j			j	j		\mbfsansj	mathematical sans-serif bold small j
1D5F8	k	k	k			k	k		\mbfsansk	mathematical sans-serif bold small k
1D5F9	l	l	l			l	l		\mbfsansl	mathematical sans-serif bold small l
1D5FA	m	m	m			m	m		\mbfsansm	mathematical sans-serif bold small m
1D5FB	n	n	n			n	n		\mbfsansn	mathematical sans-serif bold small n
1D5FC	o	o	o			o	o		\mbfsanso	mathematical sans-serif bold small o
1D5FD	p	p	p			p	p		\mbfsansp	mathematical sans-serif bold small p
1D5FE	q	q	q			q	q		\mbfsansq	mathematical sans-serif bold small q
1D5FF	r	r	r			r	r		\mbfsansr	mathematical sans-serif bold small r
1D600	s	s	s			s	s		\mbfsanss	mathematical sans-serif bold small s
1D601	t	t	t			t	t		\mbfsanst	mathematical sans-serif bold small t
1D602	u	u	u			u	u		\mbfsansu	mathematical sans-serif bold small u
1D603	v	v	v			v	v		\mbfsansv	mathematical sans-serif bold small v
1D604	w	w	w			w	w		\mbfsansw	mathematical sans-serif bold small w
1D605	x	x	x			x	x		\mbfsansx	mathematical sans-serif bold small x
1D606	y	y	y			y	y		\mbfsansy	mathematical sans-serif bold small y
1D607	z	z	z			z	z		\mbfsansz	mathematical sans-serif bold small z

13.2.15 Bold italic sans serif, Latin, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D63C	*A*	*A*	*A*			*A*	*A*		\mbfitsansA	mathematical sans-serif bold italic capital a
1D63D	*B*	*B*	*B*			*B*	*B*		\mbfitsansB	mathematical sans-serif bold italic capital b

USV	M	X	C	L	D	A	P	E	Macro	Description
1D63E	𝘾	𝘾	𝘾			𝘾	𝘾		\mbfitsansC	mathematical sans-serif bold italic capital c
1D63F	𝘿	𝘿	𝘿			𝘿	𝘿		\mbfitsansD	mathematical sans-serif bold italic capital d
1D640	𝙀	𝙀	𝙀			𝙀	𝙀		\mbfitsansE	mathematical sans-serif bold italic capital e
1D641	𝙁	𝙁	𝙁			𝙁	𝙁		\mbfitsansF	mathematical sans-serif bold italic capital f
1D642	𝙂	𝙂	𝙂			𝙂	𝙂		\mbfitsansG	mathematical sans-serif bold italic capital g
1D643	𝙃	𝙃	𝙃			𝙃	𝙃		\mbfitsansH	mathematical sans-serif bold italic capital h
1D644	𝙄	𝙄	𝙄			𝙄	𝙄		\mbfitsansI	mathematical sans-serif bold italic capital i
1D645	𝙅	𝙅	𝙅			𝙅	𝙅		\mbfitsansJ	mathematical sans-serif bold italic capital j
1D646	𝙆	𝙆	𝙆			𝙆	𝙆		\mbfitsansK	mathematical sans-serif bold italic capital k
1D647	𝙇	𝙇	𝙇			𝙇	𝙇		\mbfitsansL	mathematical sans-serif bold italic capital l
1D648	𝙈	𝙈	𝙈			𝙈	𝙈		\mbfitsansM	mathematical sans-serif bold italic capital m
1D649	𝙉	𝙉	𝙉			𝙉	𝙉		\mbfitsansN	mathematical sans-serif bold italic capital n
1D64A	𝙊	𝙊	𝙊			𝙊	𝙊		\mbfitsansO	mathematical sans-serif bold italic capital o
1D64B	𝙋	𝙋	𝙋			𝙋	𝙋		\mbfitsansP	mathematical sans-serif bold italic capital p
1D64C	𝙌	𝙌	𝙌			𝙌	𝙌		\mbfitsansQ	mathematical sans-serif bold italic capital q
1D64D	𝙍	𝙍	𝙍			𝙍	𝙍		\mbfitsansR	mathematical sans-serif bold italic capital r
1D64E	𝙎	𝙎	𝙎			𝙎	𝙎		\mbfitsansS	mathematical sans-serif bold italic capital s
1D64F	𝙏	𝙏	𝙏			𝙏	𝙏		\mbfitsansT	mathematical sans-serif bold italic capital t
1D650	𝙐	𝙐	𝙐			𝙐	𝙐		\mbfitsansU	mathematical sans-serif bold italic capital u
1D651	𝙑	𝙑	𝙑			𝙑	𝙑		\mbfitsansV	mathematical sans-serif bold italic capital v
1D652	𝙒	𝙒	𝙒			𝙒	𝙒		\mbfitsansW	mathematical sans-serif bold italic capital w
1D653	𝙓	𝙓	𝙓			𝙓	𝙓		\mbfitsansX	mathematical sans-serif bold italic capital x
1D654	𝙔	𝙔	𝙔			𝙔	𝙔		\mbfitsansY	mathematical sans-serif bold italic capital y
1D655	𝙕	𝙕	𝙕			𝙕	𝙕		\mbfitsansZ	mathematical sans-serif bold italic capital z

13.2.16 Bold italic sans serif, Latin, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D656	𝙖	𝙖	𝙖			𝙖	𝙖		\mbfitsansa	mathematical sans-serif bold italic small a
1D657	𝙗	𝙗	𝙗			𝙗	𝙗		\mbfitsansb	mathematical sans-serif bold italic small b
1D658	𝙘	𝙘	𝙘			𝙘	𝙘		\mbfitsansc	mathematical sans-serif bold italic small c
1D659	𝙙	𝙙	𝙙			𝙙	𝙙		\mbfitsansd	mathematical sans-serif bold italic small d
1D65A	𝙚	𝙚	𝙚			𝙚	𝙚		\mbfitsanse	mathematical sans-serif bold italic small e
1D65B	𝙛	𝙛	𝙛			𝙛	𝙛		\mbfitsansf	mathematical sans-serif bold italic small f
1D65C	𝙜	𝙜	𝙜			𝙜	𝙜		\mbfitsansg	mathematical sans-serif bold italic small g
1D65D	𝙝	𝙝	𝙝			𝙝	𝙝		\mbfitsansh	mathematical sans-serif bold italic small h
1D65E	𝙞	𝙞	𝙞			𝙞	𝙞		\mbfitsansi	mathematical sans-serif bold italic small i
1D65F	𝙟	𝙟	𝙟			𝙟	𝙟		\mbfitsansj	mathematical sans-serif bold italic small j
1D660	𝙠	𝙠	𝙠			𝙠	𝙠		\mbfitsansk	mathematical sans-serif bold italic small k
1D661	𝙡	𝙡	𝙡			𝙡	𝙡		\mbfitsansl	mathematical sans-serif bold italic small l
1D662	𝙢	𝙢	𝙢			𝙢	𝙢		\mbfitsansm	mathematical sans-serif bold italic small m
1D663	𝙣	𝙣	𝙣			𝙣	𝙣		\mbfitsansn	mathematical sans-serif bold italic small n
1D664	𝙤	𝙤	𝙤			𝙤	𝙤		\mbfitsanso	mathematical sans-serif bold italic small o
1D665	𝙥	𝙥	𝙥			𝙥	𝙥		\mbfitsansp	mathematical sans-serif bold italic small p
1D666	𝙦	𝙦	𝙦			𝙦	𝙦		\mbfitsansq	mathematical sans-serif bold italic small q
1D667	𝙧	𝙧	𝙧			𝙧	𝙧		\mbfitsansr	mathematical sans-serif bold italic small r
1D668	𝙨	𝙨	𝙨			𝙨	𝙨		\mbfitsanss	mathematical sans-serif bold italic small s
1D669	𝙩	𝙩	𝙩			𝙩	𝙩		\mbfitsanst	mathematical sans-serif bold italic small t

USV	M	X	C	L	D	A	P	E	Macro	Description
1D66A	𝒖	𝒖	𝒖			𝒖	𝒖		\mbfitsansu	mathematical sans-serif bold italic small u
1D66B	𝒗	𝒗	𝒗			𝒗	𝒗		\mbfitsansv	mathematical sans-serif bold italic small v
1D66C	𝒘	𝒘	𝒘			𝒘	𝒘		\mbfitsansw	mathematical sans-serif bold italic small w
1D66D	𝒙	𝒙	𝒙			𝒙	𝒙		\mbfitsansx	mathematical sans-serif bold italic small x
1D66E	𝒚	𝒚	𝒚			𝒚	𝒚		\mbfitsansy	mathematical sans-serif bold italic small y
1D66F	𝒛	𝒛	𝒛			𝒛	𝒛		\mbfitsansz	mathematical sans-serif bold italic small z

13.2.17 Bold sans serif Greek, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D756	𝗔	𝗔	𝗔			𝗔	𝗔		\mbfsansAlpha	mathematical sans-serif bold capital alpha
1D757	𝗕	𝗕	𝗕			𝗕	𝗕		\mbfsansBeta	mathematical sans-serif bold capital beta
1D758	𝗚	𝗚	𝗚			𝗚	𝗚		\mbfsansGamma	mathematical sans-serif bold capital gamma
1D759	𝗗	𝗗	𝗗			𝗗	𝗗		\mbfsansDelta	mathematical sans-serif bold capital delta
1D75A	𝗘	𝗘	𝗘			𝗘	𝗘		\mbfsansEpsilon	mathematical sans-serif bold capital epsilon
1D75B	𝗭	𝗭	𝗭			𝗭	𝗭		\mbfsansZeta	mathematical sans-serif bold capital zeta
1D75C	𝗛	𝗛	𝗛			𝗛	𝗛		\mbfsansEta	mathematical sans-serif bold capital eta
1D75D	𝗢	𝗢	𝗢			𝗢	𝗢		\mbfsansTheta	mathematical sans-serif bold capital theta
1D75E	𝗜	𝗜	𝗜			𝗜	𝗜		\mbfsansIota	mathematical sans-serif bold capital iota
1D75F	𝗞	𝗞	𝗞			𝗞	𝗞		\mbfsansKappa	mathematical sans-serif bold capital kappa
1D760	𝗟	𝗟	𝗟			𝗟	𝗟		\mbfsansLambda	mathematical sans-serif bold capital lambda
1D761	𝗠	𝗠	𝗠			𝗠	𝗠		\mbfsansMu	mathematical sans-serif bold capital mu
1D762	𝗡	𝗡	𝗡			𝗡	𝗡		\mbfsansNu	mathematical sans-serif bold capital nu
1D763	𝗫	𝗫	𝗫			𝗫	𝗫		\mbfsansXi	mathematical sans-serif bold capital xi
1D764	𝗢	𝗢	𝗢			𝗢	𝗢		\mbfsansOmicron	mathematical sans-serif bold capital omicron
1D765	𝗣	𝗣	𝗣			𝗣	𝗣		\mbfsansPi	mathematical sans-serif bold capital pi
1D766	𝗣	𝗣	𝚹			𝗣	𝗣		\mbfsansRho	mathematical sans-serif bold capital rho
1D767	𝚹	𝚹	𝗣			𝚹	𝚹		\mbfsansvarTheta	mathematical sans-serif bold capital theta symbol
1D768	𝗦	𝗦	𝗦			𝗦	𝗦		\mbfsansSigma	mathematical sans-serif bold capital sigma
1D769	𝗧	𝗧	𝗧			𝗧	𝗧		\mbfsansTau	mathematical sans-serif bold capital tau
1D76A	𝚼	𝚼	𝗬			𝚼	𝗬		\mbfsansUpsilon	mathematical sans-serif bold capital upsilon
1D76B	𝚽	𝚽	𝚽			𝚽	𝚽		\mbfsansPhi	mathematical sans-serif bold capital phi
1D76C	𝗫	𝗫	𝗫			𝗫	𝗫		\mbfsansChi	mathematical sans-serif bold capital chi
1D76D	𝚿	𝚿	𝚿			𝚿	𝚿		\mbfsansPsi	mathematical sans-serif bold capital psi
1D76E	𝛀	𝛀	𝛀			𝛀	𝛀		\mbfsansOmega	mathematical sans-serif bold capital omega

13.2.18 Bold sans serif Greek, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D770	𝛂	𝛂	𝛂			𝛂	𝛂		\mbfsansalpha	mathematical sans-serif bold small alpha
1D771	𝛃	𝛃	𝛃			𝛃	𝛃		\mbfsansbeta	mathematical sans-serif bold small beta
1D772	𝛄	𝛄	𝛄			𝛄	𝛄		\mbfsansgamma	mathematical sans-serif bold small gamma
1D773	𝛅	𝛅	𝛅			𝛅	𝛅		\mbfsansdelta	mathematical sans-serif bold small delta
1D774	𝛆	𝛆	𝛆			𝛆	𝛆		\mbfsansepsilon	mathematical sans-serif bold small epsilon
1D775	𝛇	𝛇	𝛇			𝛇	𝛇		\mbfsanszeta	mathematical sans-serif bold small zeta

USV	M	X	C	L	D	A	P	E	Macro	Description
1D776	𝝶	𝛈	𝜼			𝞰	𝟄		\mbfsanseta	mathematical sans-serif bold small eta
1D777	𝝷	𝛉	𝜽			𝞱	𝟅		\mbfsanstheta	mathematical sans-serif bold small theta
1D778	𝝸	𝛊	𝜾			𝞲	𝟆		\mbfsansiota	mathematical sans-serif bold small iota
1D779	𝝹	𝛋	𝜿			𝞳	𝟇		\mbfsanskappa	mathematical sans-serif bold small kappa
1D77A	𝝺	𝛌	𝝀			𝞴	𝟈		\mbfsanslambda	mathematical sans-serif bold small lambda
1D77B	𝝻	𝛍	𝝁			𝞵	𝟉		\mbfsansmu	mathematical sans-serif bold small mu
1D77C	𝝼	𝛎	𝝂			𝞶	𝟊		\mbfsansnu	mathematical sans-serif bold small nu
1D77D	𝝽	𝛏	𝝃			𝞷	𝟋		\mbfsansxi	mathematical sans-serif bold small xi
1D77E	𝝾	𝛐	𝝄			𝞸	𝟌		\mbfsansomicron	mathematical sans-serif bold small omicron
1D77F	𝝿	𝛑	𝝅			𝞹	𝟍		\mbfsanspi	mathematical sans-serif bold small pi
1D780	𝞀	𝛒	𝝆			𝞺	𝟎		\mbfsansrho	mathematical sans-serif bold small rho
1D781	𝞁	𝛓	𝝇			𝞻	𝟏		\mbfsansvarsigma	mathematical sans-serif bold small final sigma
1D782	𝞂	𝛔	𝝈			𝞼	𝟐		\mbfsanssigma	mathematical sans-serif bold small sigma
1D783	𝞃	𝛕	𝝉			𝞽	𝟑		\mbfsanstau	mathematical sans-serif bold small tau
1D784	𝞄	𝛖	𝝊			𝞾	𝟒		\mbfsansupsilon	mathematical sans-serif bold small upsilon
1D785	𝞅	𝛗	𝝋			𝞿	𝟓		\mbfsansphi	mathematical sans-serif bold small phi
1D786	𝞆	𝛘	𝝌			𝟀	𝟔		\mbfsanschi	mathematical sans-serif bold small chi
1D787	𝞇	𝛙	𝝍			𝟁	𝟕		\mbfsanspsi	mathematical sans-serif bold small psi
1D788	𝞈	𝛚	𝝎			𝟂	𝟖		\mbfsansomega	mathematical sans-serif bold small omega
1D789	𝞉	𝛛	𝝏			𝟃	𝟗		\mbfsanspartial	mathematical sans-serif bold partial differential
1D78A	𝞊	𝛜	𝝐			𝟄	𝟘		\mbfsansvarepsilon	mathematical sans-serif bold epsilon symbol
1D78B	𝞋	𝛝	𝝑			𝟅	𝟙		\mbfsansvartheta	mathematical sans-serif bold theta symbol
1D78C	𝞌	𝛞	𝝒			𝟆	𝟚		\mbfsansvarkappa	mathematical sans-serif bold kappa symbol
1D78D	𝞍	𝛟	𝝓			𝟇	𝟛		\mbfsansvarphi	mathematical sans-serif bold phi symbol
1D78E	𝞎	𝛠	𝝔			𝟈	𝟜		\mbfsansvarrho	mathematical sans-serif bold rho symbol
1D78F	𝞏	𝛡	𝝕			𝟉	𝟝		\mbfsansvarpi	mathematical sans-serif bold pi symbol

13.2.19 Bold italic sans serif Greek, uppercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D790	𝘼	𝘈	𝘼			𝘼	𝘼		\mbfitsansAlpha	mathematical sans-serif bold italic capital alpha
1D791	𝘽	𝘉	𝘽			𝘽	𝘽		\mbfitsansBeta	mathematical sans-serif bold italic capital beta
1D792	𝘾	𝘊	𝘾			𝘾	𝘾		\mbfitsansGamma	mathematical sans-serif bold italic capital gamma
1D793	𝘿	𝘋	𝘿			𝘿	𝘿		\mbfitsansDelta	mathematical sans-serif bold italic capital delta
1D794	𝙀	𝘌	𝙀			𝙀	𝙀		\mbfitsansEpsilon	mathematical sans-serif bold italic capital epsilon
1D795	𝙕	𝘡	𝙕			𝙕	𝙕		\mbfitsansZeta	mathematical sans-serif bold italic capital zeta
1D796	𝙃	𝘏	𝙃			𝙃	𝙃		\mbfitsansEta	mathematical sans-serif bold italic capital eta
1D797	𝙊	𝘐	𝙊			𝙊	𝙊		\mbfitsansTheta	mathematical sans-serif bold italic capital theta
1D798	𝙄	𝘑	𝙄			𝙄	𝙄		\mbfitsansIota	mathematical sans-serif bold italic capital iota
1D799	𝙆	𝘒	𝙆			𝙆	𝙆		\mbfitsansKappa	mathematical sans-serif bold italic capital kappa
1D79A	𝙇	𝘓	𝙇			𝙇	𝙇		\mbfitsansLambda	mathematical sans-serif bold italic capital lambda
1D79B	𝙈	𝘔	𝙈			𝙈	𝙈		\mbfitsansMu	mathematical sans-serif bold italic capital mu
1D79C	𝙉	𝘕	𝙉			𝙉	𝙉		\mbfitsansNu	mathematical sans-serif bold italic capital nu
1D79D	𝙓	𝘟	𝙓			𝙓	𝙓		\mbfitsansXi	mathematical sans-serif bold italic capital xi
1D79E	𝙊	𝘖	𝙊			𝙊	𝙊		\mbfitsansOmicron	mathematical sans-serif bold italic capital omicron
1D79F	𝙋	𝘗	𝙋			𝙋	𝙋		\mbfitsansPi	mathematical sans-serif bold italic capital pi
1D7A0	𝙋	𝘗	𝙍			𝙋	𝙋		\mbfitsansRho	mathematical sans-serif bold italic capital rho

USV	M	X	C	L	D	A	P	E	Macro	Description
1D7A1	𝜭	𝜭	𝝝			𝜭	𝜭		\mbfitsansvarTheta	mathematical sans-serif bold italic capital theta symbol
1D7A2	𝜮	𝜮	𝜮			𝜮	𝜮		\mbfitsansSigma	mathematical sans-serif bold italic capital sigma
1D7A3	𝜯	𝜯	𝜯			𝜯	𝜯		\mbfitsansTau	mathematical sans-serif bold italic capital tau
1D7A4	𝜰	𝜰	𝜰			𝜰	𝜰		\mbfitsansUpsilon	mathematical sans-serif bold italic capital upsilon
1D7A5	𝜱	𝜱	𝜱			𝜱	𝜱		\mbfitsansPhi	mathematical sans-serif bold italic capital phi
1D7A6	𝜲	𝜲	𝜲			𝜲	𝜲		\mbfitsansChi	mathematical sans-serif bold italic capital chi
1D7A7	𝜳	𝜳	𝜳			𝜳	𝜳		\mbfitsansPsi	mathematical sans-serif bold italic capital psi
1D7A8	𝜴	𝜴	𝜴			𝜴	𝜴		\mbfitsansOmega	mathematical sans-serif bold italic capital omega

13.2.20 Bold italic sans serif Greek, lowercase

USV	M	X	C	L	D	A	P	E	Macro	Description
1D7AA	𝜶	𝜶	𝜶			𝜶	𝜶		\mbfitsansalpha	mathematical sans-serif bold italic small alpha
1D7AB	𝜷	𝜷	𝜷			𝜷	𝜷		\mbfitsansbeta	mathematical sans-serif bold italic small beta
1D7AC	𝜸	𝜸	𝜸			𝜸	𝜸		\mbfitsansgamma	mathematical sans-serif bold italic small gamma
1D7AD	𝜹	𝜹	𝜹			𝜹	𝜹		\mbfitsansdelta	mathematical sans-serif bold italic small delta
1D7AE	𝜺	𝜺	𝜺			𝜺	𝜺		\mbfitsansepsilon	mathematical sans-serif bold italic small epsilon
1D7AF	𝜻	𝜻	𝜻			𝜻	𝜻		\mbfitsanszeta	mathematical sans-serif bold italic small zeta
1D7B0	𝜼	𝜼	𝜼			𝜼	𝜼		\mbfitsanseta	mathematical sans-serif bold italic small eta
1D7B1	𝜽	𝜽	𝜽			𝜽	𝜽		\mbfitsanstheta	mathematical sans-serif bold italic small theta
1D7B2	𝜾	𝜾	𝜾			𝜾	𝜾		\mbfitsansiota	mathematical sans-serif bold italic small iota
1D7B3	𝜿	𝜿	𝜿			𝜿	𝜿		\mbfitsanskappa	mathematical sans-serif bold italic small kappa
1D7B4	𝝀	𝝀	𝝀			𝝀	𝝀		\mbfitsanslambda	mathematical sans-serif bold italic small lambda
1D7B5	𝝁	𝝁	𝝁			𝝁	𝝁		\mbfitsansmu	mathematical sans-serif bold italic small mu
1D7B6	𝝂	𝝂	𝝂			𝝂	𝝂		\mbfitsansnu	mathematical sans-serif bold italic small nu
1D7B7	𝝃	𝝃	𝝃			𝝃	𝝃		\mbfitsansxi	mathematical sans-serif bold italic small xi
1D7B8	𝝄	𝝄	𝝄			𝝄	𝝄		\mbfitsansomicron	mathematical sans-serif bold italic small omicron
1D7B9	𝝅	𝝅	𝝅			𝝅	𝝅		\mbfitsanspi	mathematical sans-serif bold italic small pi
1D7BA	𝝆	𝝆	𝝆			𝝆	𝝆		\mbfitsansrho	mathematical sans-serif bold italic small rho
1D7BB	𝝇	𝝇	𝝇			𝝇	𝝇		\mbfitsansvarsigma	mathematical sans-serif bold italic small final sigma
1D7BC	𝝈	𝝈	𝝈			𝝈	𝝈		\mbfitsanssigma	mathematical sans-serif bold italic small sigma
1D7BD	𝝉	𝝉	𝝉			𝝉	𝝉		\mbfitsanstau	mathematical sans-serif bold italic small tau
1D7BE	𝝊	𝝊	𝝊			𝝊	𝝊		\mbfitsansupsilon	mathematical sans-serif bold italic small upsilon
1D7BF	𝝋	𝝋	𝝋			𝝋	𝝋		\mbfitsansphi	mathematical sans-serif bold italic small phi
1D7C0	𝝌	𝝌	𝝌			𝝌	𝝌		\mbfitsanschi	mathematical sans-serif bold italic small chi
1D7C1	𝝍	𝝍	𝝍			𝝍	𝝍		\mbfitsanspsi	mathematical sans-serif bold italic small psi
1D7C2	𝝎	𝝎	𝝎			𝝎	𝝎		\mbfitsansomega	mathematical sans-serif bold italic small omega
1D7C3	𝝏	𝝏	𝝏			𝝏	𝝏		\mbfitsanspartial	mathematical sans-serif bold italic partial differential
1D7C4	𝝐	𝝐	𝝐			𝝐	𝝐		\mbfitsansvarepsilon	mathematical sans-serif bold italic epsilon symbol
1D7C5	𝝑	𝝑	𝝑			𝝑	𝝑		\mbfitsansvartheta	mathematical sans-serif bold italic theta symbol
1D7C6	𝝒	𝝒	𝝒			𝝒	𝝒		\mbfitsansvarkappa	mathematical sans-serif bold italic kappa symbol
1D7C7	𝝓	𝝓	𝝓			𝝓	𝝓		\mbfitsansvarphi	mathematical sans-serif bold italic phi symbol
1D7C8	𝝔	𝝔	𝝔			𝝔	𝝔		\mbfitsansvarrho	mathematical sans-serif bold italic rho symbol
1D7C9	𝝕	𝝕	𝝕			𝝕	𝝕		\mbfitsansvarpi	mathematical sans-serif bold italic pi symbol

13.3 Miscellaneous

USV	M	X	C	L	D	A	P	E	Macro	Description
000F0	ð	ð	ð			ð	ð		\matheth	eth
02102	ℂ	ℂ	ℂ			ℂ	ℂ		\BbbC	/bbb c, open face c
0210A		𝑔	𝑔			𝑔	𝑔		\mscrg	/scr g, script letter g
0210B	ℋ	ℋ	ℋ			ℋ	ℋ	ℋ	\mscrH	hamiltonian (script capital h)
0210C	ℌ	ℌ	ℌ			ℌ	ℌ	ℌ	\mfrakH	/frak h, upper case h
0210D	ℍ	ℍ	ℍ			ℍ	ℍ		\BbbH	/bbb h, open face h
0210F	ℏ	ℏ	ℏ			ℏ	ℏ	ℏ	\hslash(a)	/hslash - variant planck's over 2pi
02110	ℐ	ℐ	ℐ			ℐ	ℐ	ℐ	\mscrI	/scr i, script letter i
02111	ℑ	ℑ	ℑ			ℑ	ℑ	ℑ	\Im(p)	imaginary part
02112	ℒ	ℒ	ℒ			ℒ	ℒ	ℒ	\mscrL	lagrangian (script capital l)
02113	ℓ	ℓ	ℓ			ℓ	ℓ	ℓ	\ell(p)	cursive small l
02115	ℕ	ℕ	ℕ			ℕ	ℕ		\BbbN	/bbb n, open face n
02118	℘	℘	℘			℘	℘	℘	\wp(p)	weierstrass p
02119	ℙ	ℙ	ℙ			ℙ	ℙ		\BbbP	/bbb p, open face p
0211A	ℚ	ℚ	ℚ			ℚ	ℚ		\BbbQ	/bbb q, open face q
0211B	ℛ	ℛ	ℛ			ℛ	ℛ	ℛ	\mscrR	/scr r, script letter r
0211C	ℜ	ℜ	ℜ			ℜ	ℜ	ℜ	\Re(p)	real part
0211D	ℝ	ℝ	ℝ			ℝ	ℝ		\BbbR	/bbb r, open face r
02124	ℤ	ℤ	ℤ			ℤ	ℤ		\BbbZ	/bbb z, open face z
02128	ℨ	ℨ	ℨ			ℨ	ℨ	ℨ	\mfrakZ	/frak z, upper case z
02129		ι	ι			ι			\turnediota	turned iota
0212B	Å	Å	Å			Å	Å		\Angstrom	angstrom capital a, ring
0212C	ℬ	ℬ	ℬ			ℬ	ℬ	ℬ	\mscrB	bernoulli function (script capital b)
0212D	ℭ	ℭ	ℭ			ℭ	ℭ	ℭ	\mfrakC	black-letter capital c
0212F		𝑒	𝑒			𝑒	𝑒		\mscre	/scr e, script letter e
02130	ℰ	ℰ	ℰ			ℰ	ℰ	ℰ	\mscrE	/scr e, script letter e
02131	ℱ	ℱ	ℱ			ℱ	ℱ	ℱ	\mscrF	/scr f, script letter f
02133	ℳ	ℳ	ℳ			ℳ	ℳ	ℳ	\mscrM	physics m-matrix (script capital m)
02134		𝑜	𝑜			𝑜	𝑜		\mscro	order of (script small o)
02135	א	א	א			א	א	א	\aleph(p)	aleph, hebrew
02136	ב	ב	ב			ב	ב		\beth(a)	beth, hebrew
02137	ג	ג	ג			ג	ג		\gimel(a)	gimel, hebrew
02138	ד	ד	ד			ד	ד		\daleth(a)	daleth, hebrew
0213D	ℽ	ℽ	ℽ			ℽ	ℽ		\Bbbgamma	double-struck small gamma
0213E	ℾ	ℾ	ℾ			ℾ	ℾ		\BbbGamma	double-struck capital gamma
0213F	ℿ	ℿ	ℿ			ℿ	ℿ		\BbbPi	double-struck capital pi
02202	∂	∂	∂			∂	∂	∂	\partial(p)	partial differential
02207	∇	∇	∇			∇	∇	∇	\nabla(p)	nabla, del, hamilton operator
1D6A4	𝚤	𝚤	𝚤			𝚤	𝚤		\imath(p)	mathematical italic small dotless i
1D6A5	𝚥	𝚥	𝚥			𝚥	𝚥		\jmath(p)	mathematical italic small dotless j
1D6C1	𝛁	𝛁	𝛁			𝛁	𝛁	𝛁	\mbfnabla	mathematical bold nabla
1D6FB	𝛻	𝛻	𝛻			𝛻	𝛻		\mitnabla	mathematical italic nabla
1D735	𝜵	𝜵	𝜵			𝜵	𝜵		\mbfitnabla	mathematical bold italic nabla
1D76F	𝝯	𝝯	𝝯			𝝯	𝝯		\mbfsansnabla	mathematical sans-serif bold nabla
1D7A9	𝞩	𝞩	𝞩			𝞩	𝞩		\mbfitsansnabla	mathematical sans-serif bold italic nabla
1D7CA		Ϝ	Ϝ			Ϝ			\mbfDigamma	mathematical bold capital digamma
1D7CB		ϝ	ϝ			ϝ			\mbfdigamma	mathematical bold small digamma

usv	M	X	C	L	D	A	P	E	Macro	Description