Supplemental Mathematical Operators Range: 2A00–2AFF

The Unicode Standard, Version 3.2

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 3.2.*

Characters in this chart that are new for The Unicode Standard, Version 3.2 are shown in conjunction with any existing characters. For ease of reference, the new characters have been highlighted in the chart grid and in the names list.

This file will not be updated with errata, or when additional characters are assigned to the Unicode Standard. See http://www.unicode.org/charts for access to a complete list of the latest character charts.

Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 3.2 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this excerpt file, please consult the appropriate sections of The Unicode Standard, Version 3.0 (ISBN 0-201-61633-5), as well as Unicode Standard Annexes #28 and #27, the other Unicode Technical Reports and the Unicode Character Database, which are available on-line.

See http://www.unicode.org/Public/UNIDATA/UnicodeCharacterDatabase.html and http://www.unicode.org/unicode/reports

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

Fonts

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See http://www.unicode.org/unicode/uni2book/u2fonts.html for a list.

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See http://www.unicode.org/pending/pending.html and http://www.unicode.org/unicode/alloc/Pipeline.html.

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2A0	2A1	2A2	2A3	2A4	2A5	2A6	2A7
2A00	f 2A10	>>> 2A20	* 2A30	• 2A40	2 450	2A60	2A70
2401	∮	2A21	× 2A31	2441	Å 2A51	<u> </u>	2A71
\otimes	ب ر	Ŷ	x	Ū	Ý	$\overline{\nabla}$	± 2A72
U	Ş	Ŷ	*	Ā	۸	⊻	2473
+	ج	Ŧ	(×	D	V	\triangleleft	2A74
Π	ş	÷	×	U	ҝ	₽	==
Ш	₫	+	Ś	U N	V	÷	
	∱	+ ₂	\otimes	0	V	≐	2A76
\bigvee	¥	+	Ð	Ы	7	#	2A77
Х	∮	<u>,</u>	A	Ð	×	#	2A78
D	∮	•	Δ	ω	₼	∻	2A79
£	$\overline{\int}$	•		m	V	~	2474
\iiint	\int	<u>.</u>	-	U	A	æ	2A7B
\int		¢	2A3C		∀	2A6C	2ATC
2AOD	2A1D	2A2D	2A3D 9	2A4D	 <	2A6D	2A7D
2AOE F	2A1E 0 9	2A2E	2A3E		2A5E	2A6E	2A7E
	2A00 $2A01$ $2A01$ $2A02$ $2A02$ $2A02$ $2A02$ $2A03$ 4 $2A03$ 4 $2A05$ $2A04$ $2A06$ $2A00$ $2A0$ $2A00$ $A0$ $A0$ $A0$ $A0$ $A0$ $A0$ $A0$	$ \begin{array}{c} \bigcirc \\ \bigcirc $	\bigcirc \oint \oint $2A20$ \bigcirc \oint f $2A20$ \bigcirc \int f $2A21$ \bigcirc \int f $2A21$ \bigcirc \int f $2A21$ \bigcirc f f $2A21$ \bigcirc f f $2A21$ \bigcirc f f $2A22$ \bigcirc f f $2A22$ \bigcirc f f $2A23$ \bigcirc f f $2A23$ \bigcirc f f f $2A04$ f f f $2A04$ f f f $2A04$ f f f $2A04$ f f f $2A06$ f f f $2A06$ f f f $2A07$ f f f $2A08$ f f f f f f f $2A08$ f <td>$\begin{array}{c c c c c c } & &$</td> <td>$\begin{array}{c c c c c c c c } \hline \begin{array}{c c c c c c c c } \hline \begin{array}{c c c c c c c } \hline \begin{array}{c c c c c c } \hline \begin{array}{c c c c c c c } \hline \begin{array}{c c c c c } \hline \begin{array}{c c c c c } \hline \begin{array}{c c c c } \hline \begin{array}{c c c c c } \hline \begin{array}{c c c c } \hline \end{array} \\ \hline \begin{array}{c c c c } \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c c c c } \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c c c } \hline \end{array} \\ \hline \begin{array}{c c c } \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \hline \end{array} \\ \\ \hline \\ \hline$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td> <td>$\begin{array}{c c c c c c c c c c c c c c c c c c c$</td>	$\begin{array}{c c c c c c } & & & & & & & & & & & & & & & & & & &$	$\begin{array}{c c c c c c c c } \hline \begin{array}{c c c c c c c c } \hline \begin{array}{c c c c c c c } \hline \begin{array}{c c c c c c } \hline \begin{array}{c c c c c c c } \hline \begin{array}{c c c c c } \hline \begin{array}{c c c c c } \hline \begin{array}{c c c c } \hline \begin{array}{c c c c c } \hline \begin{array}{c c c c } \hline \end{array} \\ \hline \begin{array}{c c c c } \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c c c c } \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \end{array} \\ \hline \begin{array}{c c c } \hline \end{array} \\ \hline \begin{array}{c c c } \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \\ \hline \end{array} \\ \hline \end{array} \\ \\ \hline \\ \hline$	$\begin{array}{c c c c c c c c c c c c c c c c c c c $	$\begin{array}{c c c c c c c c c c c c c c c c c c c $

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	2A8	2A9	2AA	2AB	2AC	2AD	2AE	2AF
0	2480	2A90			→ 2AC0	D 2AD0	 2AE0	J 2AF0
1		_	2 AA1		× 2AC1	2AD1	S 2AE1	J 2AF1
2	2482	>	≫ 2AA2		→ × 2AC2		H 2AE2	# 2AF2
3			2AA3					2AF3
4	.≽	M	×	×II	Ŀ	υU	╡	
5	2484			2АВ4				
6	2A85		2AA5					2AF5
7	2A86	2A96						2AF6
8	2A87	2A97		٨N	2AC7			2AF7
9	2A88	2A98		2AB8				2AF8
A	2A89	2A99	2AA9	2AB9	2AC9		2AE9	2AF9
В	2A8A	2494	2AAA	2ABA	2ACA			2AFA
С	2A8B	2A9B	2AAB	2ABB	2ACB	2ADB	2AEB	2AFB
D		2A9C	2AAC	2ABC	2ACC		2AEC	2AFC
	2A8D	2A9D			2ACD		2AED	2AFD
E	2A8E	2A9E	2AAE	2ABE	2ACE	2ADE	2AEE	2AFE
F	VIA 2A8F	2A9F		C 2ABF	2ACF	2ADF	2AEF	2AFF

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N-ar	у о	perators	Mis
2A00	\odot	N-ARY CIRCLED DOT OPERATOR \rightarrow 2299 \odot circled dot operator \rightarrow 25C9 \textcircled{o} fisheye	2A10
2A01	θ	N-ARY CIRCLED PLUS OPERATOR \rightarrow 2295 \oplus circled plus	
2A02	\otimes	N-ARY CIRCLED TIMES OPERATOR \rightarrow 2297 \otimes circled times	2A1E
2A03	U	N-ARY UNION OPERATOR WITH DOT	
	↓	N-ARY UNION OPERATOR WITH PLUS \rightarrow 228E \Downarrow multiset union	2A1F
2A05	Π	N-ARY SQUARE INTERSECTION OPERATOR	2A20
2A06	Ш	→ 2293 □ square cap N-ARY SQUARE UNION OPERATOR → 2294 ⊔ square cup	2A21
2A07		TWO LOGICAL AND OPERATOR = merge	Plu
2008		→ 2A55 ▲ two intersecting logical and TWO LOGICAL OR OPERATOR	2A22
2A00 2A09		\rightarrow 2A56 \vee two intersecting logical or	2A23
2A09	^	N-ARY TIMES OPERATOR \rightarrow 00D7 × multiplication sign	2A24
Sum	nma	ations and integrals	2A25
2A0A		MODULO TWO SUM \rightarrow 2211 \sum n-ary summation	2A26
2A0B	£	SUMMATION WITH INTEGRAL	
2A0C	ſſſſ	QUADRUPLE INTEGRAL OPERATOR ≈ 222B∫ 222B∫ 222B∫ 222B∫	2A27
2A0D	f	FINITE PART INTEGRAL	2A28
2A0E	Ĵ	INTEGRAL WITH DOUBLE STROKE	2A29
2A0F	f	INTEGRAL AVERAGE WITH SLASH	2A2A
2A10	_ؤ	CIRCULATION FUNCTION	
2A11	Ĵ	ANTICLOCKWISE INTEGRATION	2A2E
2A12	័ន្ត	LINE INTEGRATION WITH	2A20
2A13	ş	RECTANGULAR PATH AROUND POLE LINE INTEGRATION WITH	2A2D 2A2D
		SEMICIRCULAR PATH AROUND POLE	Mu
2A14	ج ر	LINE INTEGRATION NOT INCLUDING THE POLE	оре
2A15	ş	INTEGRAL AROUND A POINT OPERATOR	2A2F
2A16	₽	QUATERNION INTEGRAL OPERATOR	2A30
2A17	÷	INTEGRAL WITH LEFTWARDS ARROW WITH HOOK	2A31
2A18	≸	INTEGRAL WITH TIMES SIGN	
2A19	∮	INTEGRAL WITH INTERSECTION	2A32
2A1A	ſ	INTEGRAL WITH UNION	
2A1B	Ĵ	INTEGRAL WITH OVERBAR	2A33
	-	= upper integral	2A34
2A1C	Ţ	INTEGRAL WITH UNDERBAR = lower integral	2A35
			2426

Misc	cell	aneous large operators
2A1D	\bowtie	JOIN
		= large bowtie
		 relational database theory
		\rightarrow 22C8 \bowtie bowtie
		\rightarrow 27D7 x full outer join
2A1E	٩	LARGE LEFT TRIANGLE OPERATOR
		• relational database theory
0 A 4 E		\rightarrow 25C1 \triangleleft white left-pointing triangle
2A1F	9 9	Z NOTATION SCHEMA COMPOSITION
0 4 0 0	~	\rightarrow 2A3E; z notation relational composition
2A20	>>	Z NOTATION SCHEMA PIPING
04.04	•	\rightarrow 226B \gg much greater-than
2A21	ſ	Z NOTATION SCHEMA PROJECTION \rightarrow 21BE \uparrow upwards harpoon with barb
		rightwards
Plus	ar	nd minus sign operators
2A22	÷	PLUS SIGN WITH SMALL CIRCLE
		ABOVE
2A23	÷	PLUS SIGN WITH CIRCUMFLEX
		ACCENT ABOVE
2A24	Ŧ	PLUS SIGN WITH TILDE ABOVE
		= positive difference or sum
2A25	÷	PLUS SIGN WITH DOT BELOW
		\rightarrow 2214 \div dot plus
2A26	ŧ	PLUS SIGN WITH TILDE BELOW
.		= sum or positive difference
2A27	+2	PLUS SIGN WITH SUBSCRIPT TWO
0 4 0 0		= nim-addition
2A28	+	PLUS SIGN WITH BLACK TRIANGLE
2A29	<u>·</u>	MINUS SIGN WITH COMMA ABOVE
2A2A	÷	MINUS SIGN WITH DOT BELOW
0400		\rightarrow 2238 \div dot minus
2A2B	÷	MINUS SIGN WITH FALLING DOTS
	÷	MINUS SIGN WITH RISING DOTS
2A2D	6	PLUS SIGN IN LEFT HALF CIRCLE
2A2E	Ð	PLUS SIGN IN RIGHT HALF CIRCLE
	-	ication and division sign
opei	rato	Drs
2A2F	×	VECTOR OR CROSS PRODUCT
		\rightarrow 00D7 × multiplication sign
2A30	×	MULTIPLICATION SIGN WITH DOT
		ABOVE
2A31	×	MULTIPLICATION SIGN WITH
0400		UNDERBAR
2A32	x	SEMIDIRECT PRODUCT WITH BOTTOM CLOSED
2A33	*	SMASH PRODUCT
2A33 2A34		MULTIPLICATION SIGN IN LEFT HALF
2704	e.	CIRCLE

- 2A36 ô CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT

2A37 Supplemental Mathematical Operators

2A37	\otimes	MULTIPLICATION SIGN IN DOUBLE CIRCLE	2/
2A38	÷		24
Misc	cell	aneous mathematical operators	2/ 2/
2A39	A	PLUS SIGN IN TRIANGLE	21
	A	MINUS SIGN IN TRIANGLE	~
2A3B		MULTIPLICATION SIGN IN TRIANGLE	2/
		INTERIOR PRODUCT	2/
2400	_	\rightarrow 230B J right floor	2/
2A3D		RIGHTHAND INTERIOR PRODUCT	~
ZAJD		\rightarrow 230A L left floor	2/
		\rightarrow 2319 \leftarrow turned not sign	2/
2A3E	ĝ	Z NOTATION RELATIONAL	ZF
ZAJL	9	COMPOSITION	
		\rightarrow 2A1F $;$ z notation schema composition	24
2A3F	п	AMALGAMATION OR COPRODUCT	2/
2701	ц	\rightarrow 2210 [] n-ary coproduct	21
Inte	rse	ctions and unions	24
2A40	0	INTERSECTION WITH DOT	2,
		\rightarrow 2227 \land logical and	24
		\rightarrow 27D1 \land and with dot	21
2A41	H	UNION WITH MINUS SIGN	2/
_,	Ŭ	= z notation bag subtraction	2,
		\rightarrow 228E \Downarrow multiset union	
2A42	Ū	UNION WITH OVERBAR	
2A43	ō	INTERSECTION WITH OVERBAR	N
2A44	Â	INTERSECTION WITH LOGICAL AND	2/
2A45	U	UNION WITH LOGICAL OR	
2A46	й К	UNION ABOVE INTERSECTION	2/
2A47	0	INTERSECTION ABOVE UNION	
2A48	ĸ	UNION ABOVE BAR ABOVE	
2/(40	0	INTERSECTION	R
2A49	Ð	INTERSECTION ABOVE BAR ABOVE	
	Č.	UNION	2/
2A4A	ω	UNION BESIDE AND JOINED WITH	24
		UNION	
2A4B	m	INTERSECTION BESIDE AND JOINED	2/
		WITH INTERSECTION	
2A4C	U	CLOSED UNION WITH SERIFS	
		\rightarrow 222A \cup union	
2A4D	Д	CLOSED INTERSECTION WITH SERIFS	2/
		\rightarrow 2229 \cap intersection	21
2A4E	Π	DOUBLE SQUARE INTERSECTION	24
2A4F	Ш	DOUBLE SQUARE UNION	2/
2A50	۲	CLOSED UNION WITH SERIFS AND	21
		SMASH PRODUCT	2/
امما		l ands and ors	2/
•			21
2A51	Ņ	LOGICAL AND WITH DOT ABOVE	24
2A52	Ý	LOGICAL OR WITH DOT ABOVE	21
2A53	۸	DOUBLE LOGICAL AND	2/
2A54	₩	DOUBLE LOGICAL OR	21
2A55	ҝ	TWO INTERSECTING LOGICAL AND	24
		\rightarrow 2A07 \land two logical and operator	-1
			~

456	W	TWO INTERSECTING LOGICAL OR
		\rightarrow 2A08 \bigvee two logical or operator

- A57 ✓ SLOPING LARGE OR
- A58 ✓ SLOPING LARGE AND
- A59 X LOGICAL OR OVERLAPPING LOGICAL AND
- A5A ∧ LOGICAL AND WITH MIDDLE STEM
- A5B V LOGICAL OR WITH MIDDLE STEM
- A5C A LOGICAL AND WITH HORIZONTAL DASH
- 2A5D ∀ LOGICAL OR WITH HORIZONTAL DASH
- 2A5E ⊼ LOGICAL AND WITH DOUBLE OVERBAR → 2306 ⊼ perspective
- $45F \triangle LOGICAL AND WITH UNDERBAR$
- $2A60 \triangleq \text{LOGICAL AND WITH ONDERDAN}$
- A61 \leq SMALL VEE WITH UNDERBAR \rightarrow 225A \leq equiangular to
- 2A62 ⊽ LOGICAL OR WITH DOUBLE OVERBAR
- A63 \leq LOGICAL OR WITH DOUBLE UNDERBAR → 225A \leq equiangular to

Aiscellaneous mathematical operators

- A64 < Z NOTATION DOMAIN ANTIRESTRICTION
- 2A65 \triangleright Z NOTATION RANGE ANTIRESTRICTION \rightarrow 2332 \triangleright conical taper

Relational operators

- A66 = EQUALS SIGN WITH DOT BELOW \rightarrow 2250 = approaches the limit
- $2A67 \doteq IDENTICAL WITH DOT ABOVE$
- A68 **#** TRIPLE HORIZONTAL BAR WITH DOUBLE VERTICAL STROKE = identical and parallel to \rightarrow 22D5 **#** equal and parallel to
 - \rightarrow 29E5 \neq identical to and slanted parallel
- A69 # TRIPLE HORIZONTAL BAR WITH
- TRIPLE VERTICAL STROKE
- A6B ~ TILDE OPERATOR WITH DOT ABOVE
- \rightarrow 223B \div homothetic
- 2A6C \approx SIMILAR MINUS SIMILAR
- $\begin{array}{rcl} 2A6D & \cong & CONGRUENT WITH DOT ABOVE \\ & → 2245 \cong & approximately equal to \end{array}$
- $2A6E \stackrel{*}{=} EQUALS WITH ASTERISK$ $→ 225B \pm star equals$
- 2A6F ≈ ALMOST EQUAL TO WITH CIRCUMFLEX ACCENT
- A70 ≅ APPROXIMATELY EQUAL OR EQUAL TO
- 2A71 \mp EQUALS SIGN ABOVE PLUS SIGN

2A72 **Supplemental Mathematical Operators**

		PLUS SIGN ABOVE EQUALS SIGN	2A8F	٧î٨	LESS-THAN ABOVE SIMILAR ABOVE
2A73	≂	EQUALS SIGN ABOVE TILDE	2A90	NN	GREATER-THAN
2A74		OPERATOR DOUBLE COLON EQUAL	ZA90	<	GREATER-THAN ABOVE SIMILAR ABOVE LESS-THAN
28/4		$\approx 003A : 003A : 003D =$	2A91	≶	LESS-THAN ABOVE GREATER-THAN
2A75		TWO CONSECUTIVE EQUALS SIGNS	2/101	-	ABOVE DOUBLE-LINE EQUAL
2010		$\approx 003D = 003D =$	2A92	N	GREATER-THAN ABOVE LESS-THAN
2A76	===				ABOVE DOUBLE-LINE EQUAL
		$\approx 003D = 003D = 003D =$	2A93	M	LESS-THAN ABOVE SLANTED EQUAL
2A77	÷	EQUALS SIGN WITH TWO DOTS			ABOVE GREATER-THAN ABOVE
		ABOVE AND TWO DOTS BELOW	2A94	M	SLANTED EQUAL
2A78	≡	EQUIVALENT WITH FOUR DOTS	ZA94	\$	GREATER-THAN ABOVE SLANTED EQUAL ABOVE LESS-THAN ABOVE
0.470		ABOVE			SLANTED EQUAL
2A79	8	LESS-THAN WITH CIRCLE INSIDE	2A95	<	SLANTED EQUAL TO OR LESS-THAN
2A7A	⊳	GREATER-THAN WITH CIRCLE INSIDE			\rightarrow 22DC \leq equal to or less-than
2A7B	ž	LESS-THAN WITH QUESTION MARK	2A96	≽	SLANTED EQUAL TO OR GREATER-
ZAID	~	ABOVE			THAN
2A7C	2°	GREATER-THAN WITH QUESTION			\rightarrow 22DD \geq equal to or greater-than
		MARK ABOVE	2A97	*	SLANTED EQUAL TO OR LESS-THAN
2A7D	≤	LESS-THAN OR SLANTED EQUAL TO	2A98	~	WITH DOT INSIDE
		\rightarrow 2264 \leq less-than or equal to	ZA90	≫	SLANTED EQUAL TO OR GREATER- THAN WITH DOT INSIDE
2A7E	≥	GREATER-THAN OR SLANTED EQUAL	2A99	₹	DOUBLE-LINE EQUAL TO OR LESS-
		TO	2/ 100		THAN
0.475		\rightarrow 2265 \geq greater-than or equal to			\rightarrow 22DC \leq equal to or less-than
2A7F	Ŵ	LESS-THAN OR SLANTED EQUAL TO WITH DOT INSIDE	2A9A	₹	DOUBLE-LINE EQUAL TO OR
2A80	≥	GREATER-THAN OR SLANTED EQUAL			GREATER-THAN
2700	-	TO WITH DOT INSIDE			\rightarrow 22DD \geq equal to or greater-than
2A81	4	LESS-THAN OR SLANTED EQUAL TO	2A9B	\mathbb{N}	DOUBLE-LINE SLANTED EQUAL TO OR LESS-THAN
		WITH DOT ABOVE	2A9C		DOUBLE-LINE SLANTED EQUAL TO
2A82	≽	GREATER-THAN OR SLANTED EQUAL	2430	>	OR GREATER-THAN
		TO WITH DOT ABOVE	2A9D	Ž	SIMILAR OR LESS-THAN
2A83	\$	LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE RIGHT	2A9E	ĩ	SIMILAR OR GREATER-THAN
2A84	~	GREATER-THAN OR SLANTED EQUAL	2A9F	Ĩ	SIMILAR ABOVE LESS-THAN ABOVE
2704	-	TO WITH DOT ABOVE LEFT			EQUALS SIGN
2A85	≲	LESS-THAN OR APPROXIMATE	2AA0	ĩ	SIMILAR ABOVE GREATER-THAN
2A86	≳	GREATER-THAN OR APPROXIMATE			ABOVE EQUALS SIGN
2A87	≨	LESS-THAN AND SINGLE-LINE NOT	2AA1	∢	DOUBLE NESTED LESS-THAN
		EQUAL TO			= absolute continuity → 226A \ll much less-than
		\rightarrow 2268 \leq less-than but not equal to	2AA2		DOUBLE NESTED GREATER-THAN
2A88	≩	GREATER-THAN AND SINGLE-LINE		-	\rightarrow 226B \gg much greater-than
		NOT EQUAL TO	2AA3	«	DOUBLE NESTED LESS-THAN WITH
2400	_	\rightarrow 2269 \geqq greater-than but not equal to		_	UNDERBAR
2A89 2A8A	V# \#	LESS-THAN AND NOT APPROXIMATE GREATER-THAN AND NOT	2AA4	×	GREATER-THAN OVERLAPPING LESS-
ZAOA	≉	APPROXIMATE			THAN
2A8B	VIIV	LESS-THAN ABOVE DOUBLE-LINE	2AA5	\times	GREATER-THAN BESIDE LESS-THAN
2/102	-	EQUAL ABOVE GREATER-THAN	2AA6	\triangleleft	LESS-THAN CLOSED BY CURVE
		\rightarrow 22DA \leq less-than equal to or greater-than	2AA7		GREATER-THAN CLOSED BY CURVE
2A8C	VIIV	GREATER-THAN ABOVE DOUBLE-	2AA8	Ø	LESS-THAN CLOSED BY CURVE
		LINE EQUAL ABOVE LESS-THAN	24 40	~	ABOVE SLANTED EQUAL
0 4 0 5	_	\rightarrow 22DB \gtrless greater-than equal to or less-than	2AA9		GREATER-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL
2A8D	2	LESS-THAN ABOVE SIMILAR OR EQUAL	2AAA	€	SMALLER THAN
2A8E	2	GREATER-THAN ABOVE SIMILAR OR	2AAB		LARGER THAN
	-	EQUAL	2AAC		SMALLER THAN OR EQUAL TO

2AAD Supplemental Mathematical Operators

2AAD ≥	LARGER THAN OR EQUAL TO
2AAE 😑	EQUALS SIGN WITH BUMPY ABOVE
	\rightarrow 224F \simeq difference between
2AAF <	PRECEDES ABOVE SINGLE-LINE
	EQUALS SIGN
	\rightarrow 227C \leq precedes or equal to
2AB0 ≥	SUCCEEDS ABOVE SINGLE-LINE
200 2	EQUALS SIGN
	\rightarrow 227D \geq succeeds or equal to
2AB1 🗲	PRECEDES ABOVE SINGLE-LINE NOT
	EQUAL TO
2AB2 🍃	SUCCEEDS ABOVE SINGLE-LINE NOT
2AB2 ≽	EQUAL TO
2AB3 ≦	PRECEDES ABOVE EQUALS SIGN
2AB4 ≧	SUCCEEDS ABOVE EQUALS SIGN
2AB5 ≨	PRECEDES ABOVE NOT EQUAL TO
2AB6 ≩	SUCCEEDS ABOVE NOT EQUAL TO
2AB7 🞽	PRECEDES ABOVE ALMOST EQUAL
	ТО
2AB8 📚	SUCCEEDS ABOVE ALMOST EQUAL
0400	TO
2AB9 🟅	PRECEDES ABOVE NOT ALMOST
	EQUAL TO
2ABA 📚	SUCCEEDS ABOVE NOT ALMOST
0400 "	EQUAL TO
	DOUBLE PRECEDES
ZARC >>	DOUBLE SUCCEEDS
• •	
Subset	t and superset relations
	-
2ABD 🤆	SUBSET WITH DOT
2ABD € 2ABE ⊃	SUBSET WITH DOT SUPERSET WITH DOT
2ABD	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW
2ABD	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW
2ABD	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION
2ABD ⊂ 2ABE ⊃ 2ABF ⊂ 2AC0 ⊋ 2AC1 ⊊	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW
2ABD	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION
2ABD⊂2ABE⊃2ABF⊂2AC0⊃2AC1⊂2AC2⊃	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW
2ABD ⊂ 2ABE ⊃ 2ABF ⊂ 2AC0 ⊋ 2AC1 ⊊	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT
2ABD ⊂ 2ABE ⊃ 2ABF ⊂ 2AC0 ⊃ 2AC1 ⊂ 2AC2 ⊃ 2AC3 ⊆	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE
2ABD⊂2ABE⊃2ABF⊂2AC0⊃2AC1⊂2AC2⊃	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH
2ABD ♀ 2ABF ♀ 2AC0 ♀ 2AC1 ♀ 2AC2 ♀ 2AC3 ♀ 2AC4 ≥	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE
2ABD 2ABE 2ABF 2AC0 2AC1♀2AC2 2AC2♀2AC3 2AC4♀2AC5♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN
2ABD 2ABE 2ABF 2AC0 2AC1♀2AC2 2AC2♀2AC3 2AC4♀2AC5 2AC6♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN
2ABD⊂2ABF⊂2AC0∼2AC1⊂2AC2∼2AC3⊂2AC4△2AC5⊆2AC6⊇2AC7⊂	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR
2ABD 2ABE 2ABF 2AC0 2AC1♀2AC2 2AC2♀2AC3 2AC4♀2AC5 2AC6♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE
2ABD⊂2ABF⊂2AC0∼2AC1⊂2AC2∼2AC3⊆2AC4⇒2AC5⊆2AC5⊆2AC6⊇2AC8∼	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR
2ABD⊂2ABF⊂2AC0∼2AC1⊂2AC2∼2AC3⊂2AC4△2AC5⊆2AC6⊇2AC7⊂	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE ALMOST EQUAL
2ABD 2ABE 2ABF 2AC0 2AC1♀2AC2 2AC2♀2AC3 2AC4♀2AC4 2AC5 2AC6 2AC7 2AC8 2AC8♀2AC9 \$♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE ALMOST EQUAL TO
2ABD⊂2ABF⊂2AC0∼2AC1⊂2AC2∼2AC3⊆2AC4⇒2AC5⊆2AC5⊆2AC6⊇2AC8∼	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE ALMOST EQUAL TO
2ABD 2ABE 2ABF 2AC0 2AC1♀2AC2 2AC2♀2AC3 2AC4♀2AC4 2AC5 2AC6 2AC7 2AC8♀2AC9 2ACA♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE ALMOST EQUAL TO
2ABD 2ABF 2AC0 2AC1♀2AC2 2AC2♀2AC3 2AC4♀2AC4 2AC5 2AC6 2AC8♀2AC5 2AC6 2AC8♀2AC5 2AC6 2AC8♀2AC5 2AC8♀2AC9 2AC8♀2AC8 2AC8♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE ALMOST EQUAL TO SUBSET OF ABOVE NOT EQUAL TO
2ABD 2ABE 2AC0 2AC1♀2AC2 2AC2♀2AC2 2AC3♀2AC3 2AC4♀2AC4 2AC6 2AC6 2AC8 2AC8 2AC8♀2AC9 2ACA 2ACA♀2ACB 2ACC 2ACC♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUPERSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE ALMOST EQUAL TO SUBSET OF ABOVE NOT EQUAL TO
$\begin{array}{c} 2ABD \\ 2ABE \\ 2ABF \\ 2AC0 \\ 2AC1 \\ 2AC2 \\ 2AC2 \\ 2AC2 \\ 2AC3 \\ 2AC3 \\ 2AC4 \\ 2AC4 \\ 2AC5 \\ 2AC6 \\ 2AC7 \\ 2AC8 \\ 2A$	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO SUBSET OF ABOVE NOT EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO
2ABD 2ABE 2AC0 2AC1♀2AC2 2AC2♀2AC2 2AC3♀2AC3 2AC4♀2AC4 2AC6 2AC6 2AC8 2AC8 2AC8♀2AC9 2ACA 2ACA♀2ACB 2ACC 2ACC♀	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE ALMOST EQUAL TO SUBSET OF ABOVE NOT EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO
2ABD⊂2ABF⊂2AC0∼2AC1⊂2AC2∼2AC3⊂2AC4△2AC5⊆2AC6⊇2AC8∼2AC9⊆2ACA≈2ACB⊊2ACB⊊2ACC⊋2ACC二2ACC□2ACC□2ACC□2ACC□2ACE□	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUBSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO
2ABD⊂2ABF⊂2AC0∼2AC1⊂2AC2∼2AC3⊂2AC4△2AC5⊆2AC6⊇2AC8∼2AC9⊆2ACA≈2ACB⊊2ACB⊊2ACC⊋2ACC二2ACC□2ACC□2ACC□2ACC□2ACE□	SUBSET WITH DOT SUPERSET WITH DOT SUBSET WITH PLUS SIGN BELOW SUPERSET WITH PLUS SIGN BELOW SUBSET WITH MULTIPLICATION SIGN BELOW SUPERSET WITH MULTIPLICATION SIGN BELOW SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF OR EQUAL TO WITH DOT ABOVE SUBSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE EQUALS SIGN SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE TILDE OPERATOR SUPERSET OF ABOVE ALMOST EQUAL TO SUPERSET OF ABOVE ALMOST EQUAL TO SUBSET OF ABOVE NOT EQUAL TO SUPERSET OF ABOVE NOT EQUAL TO

2AD0	D	CLOSED SUPERSET
		\rightarrow 2283 \supset superset of
2AD1	Δ	CLOSED SUBSET OR EQUAL TO
2AD2	D	CLOSED SUPERSET OR EQUAL TO
2AD3	5	SUBSET ABOVE SUPERSET
2AD4	5	SUPERSET ABOVE SUBSET
2AD5	З	SUBSET ABOVE SUBSET

- 2AD6 3 SUPERSET ABOVE SUPERSET
- ADU 5 SUFERSET ADUVE SUFERSE
- 2AD7 ⊃⊂ SUPERSET BESIDE SUBSET 2AD8 ⊃⊂ SUPERSET BESIDE AND JOINED BY
 - DASH WITH SUBSET

Forks

- 2AD9 ∩ ELEMENT OF OPENING DOWNWARDS \rightarrow 2208 ∈ element of \rightarrow 27D2 \cup element of opening upwards
- 2ADA $\overline{\oplus}$ PITCHFORK WITH TEE TOP \rightarrow 22D4 \oplus pitchfork
- 2ADB \uparrow TRANSVERSAL INTERSECTION \rightarrow 22D4 \pitchfork pitchfork
- 2ADC / FORKING = not independent
 - an equational logic symbol, not a computing science symbol
 - non-indepedence (original concept) is related to forking
 - ≡ 2ADD ↓ 0338 Ø
- 2ADD ↓ NONFORKING
 - = independent
 - an equational logic symbol, not a computing science symbol
 - independence (original concept) is related to non-forking

Tacks and turnstiles

- 2ADE \dashv SHORT LEFT TACK \rightarrow 22A3 \dashv left tack
- $\begin{array}{rl} \mbox{2ADF} & \top & \mbox{SHORT DOWN TACK} \\ & \rightarrow 22A4 \ \top & \mbox{down tack} \end{array}$
- 2AE0 \perp SHORT UP TACK \rightarrow 22A5 \perp up tack
- 2AE1 LS PERPENDICULAR WITH S
- 2AE2 | VERTICAL BAR TRIPLE RIGHT TURNSTILE = ordinarily satisfies
- 2AE3 ⊣ DOUBLE VERTICAL BAR LEFT TURNSTILE → 22A9 ⊨ forces
- 2AE4 \exists VERTICAL BAR DOUBLE LEFT TURNSTILE → 22A8 \models true
- 2AE6
 ↓ LONG DASH FROM LEFT MEMBER OF DOUBLE VERTICAL → 22A9
 ↓ forces

2AE7 Supplemental Mathematical Operators

2AE7 =	SHORT DOWN TACK WITH OVERBAR \rightarrow 22A4 \top down tack	2
	\rightarrow 2351 $\overline{\top}$ apl functional symbol up tack overbar	(
2AE8 📥	SHORT UP TACK WITH UNDERBAR	2
	\rightarrow 22A5 \perp up tack	
	\rightarrow 234A \perp apl functional symbol down tack underbar	
2AF9 +	SHORT UP TACK ABOVE SHORT	
	DOWN TACK	2
2AEA T	DOUBLE DOWN TACK	_
2AEB 🔟	DOUBLE UP TACK	2
	= independence	
	• probability theory	2
2AEC 🗕	DOUBLE STROKE NOT SIGN	-
	\rightarrow 00AC \neg not sign	
2AED 😑	REVERSED DOUBLE STROKE NOT SIGN	
	\rightarrow 2310 \vdash reversed not sign	

Vertical line operators

2AEE	+	DOES NOT DIVIDE WITH REVERSED		
		NEGATION SLASH		
		\rightarrow 2224 ł does not divide		
2AEF	Î	VERTICAL LINE WITH CIRCLE ABOVE		
2AF0	ſ	VERTICAL LINE WITH CIRCLE		
		BELOW		
2AF1	î	DOWN TACK WITH CIRCLE BELOW		
		= necessarily satisfies		
		\rightarrow 27DF 1 up tack with circle above		
2AF2	ŧ	PARALLEL WITH HORIZONTAL		
		STROKE		
		\rightarrow 2226 # not parallel to		
2AF3	ł	PARALLEL WITH TILDE OPERATOR		
2AF4		TRIPLE VERTICAL BAR BINARY		
		RELATION		
		= interleave		
		\rightarrow 2980 III triple vertical bar delimiter		
2AF5	₩	TRIPLE VERTICAL BAR WITH		
		HORIZONTAL STROKE		
Miscellaneous mathematical operator				

2AF6 : TRIPLE COLON OPERATOR • logic → 22EE : vertical ellipsis

Relations

2AF7 <	TRIPLE NESTED LESS-THAN
	\rightarrow 22D8 \ll very much less-than
24F8	TRIPLE NESTED GREATER-TH

- $2AF8 \gg$ TRIPLE NESTED GREATER-THAN $\rightarrow 22D9 \gg$ very much greater-than
- 2AF9 ≤ DOUBLE-LINE SLANTED LESS-THAN OR EQUAL TO \rightarrow 2266 ≤ less-than over equal to
- 2AFA ≥ DOUBLE-LINE SLANTED GREATER-THAN OR EQUAL TO \rightarrow 2267 ≥ greater-than over equal to

- 2AFB /// TRIPLE SOLIDUS BINARY RELATION
 - \rightarrow 2AF4 II triple vertical bar binary relation

Operators

2AFC III	LARGE TRIPLE VERTICAL BAR OPERATOR
	• often n-ary
	\rightarrow 2AF4 II triple vertical bar binary relation
	\rightarrow 2980 II triple vertical bar delimiter

- AFD // DOUBLE SOLIDUS OPERATOR
 - \rightarrow 2225 || parallel to
- 2AFE WHITE VERTICAL BAR = Dijkstra choice
- AFF N-ARY WHITE VERTICAL BAR = n-ary Dijkstra choice