Miscellaneous Mathematical Symbols-B

Range: 2980-29FF

This file contains an excerpt from the character code tables and list of character names for the Unicode Standard, last updated for

The Unicode Standard, Version 4.0.

This file may be updated as necessary to reflect errata without notice. For an up-to-date list of errata, see http://www.unicode.org/errata/

Disclaimer

These charts are provided as the on-line reference to the character contents of the Unicode Standard, Version 4.0 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 4.0 (ISBN 0-321-18578-1), as well as Unicode Standard Annexes #9, #11, #14, #15, #24 and #29, the other Unicode Technical Reports and the Unicode Character Database, which are available on-line.

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

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

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

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	298	299	29A	29B	29C	29D	29E	29F
0	 2980] 2990	≯ 29A0	29B0	29C0	29D0	29E 0	₹ 29F0
1	2981	إ	₩ 29A1	29B1	29C1	29D1	29E1	1 29F1
2	O O 2982	2992	7	O 29B2	o 29C2	29D2	Ш 29E2	<u>S</u>
3	{[2983	4		2 9B3	 29C3	29D3	# 29E3	1 29F3
4] 2984	2994	<u></u>	29B4	29C4	29D4	# 29E4	:→ 29F4
5	2985	₩ 2995	<u></u>	29B5	29C5	29D5	# 29E5	\ 29F5
6	2986	※ 2996	29A6	29B6	* 29C6	X 29D6	29E6	7
7	2987	2997	29A7	29B7	29C7	2 9D7	‡	\ 29F7
8	2988	2998	2 9A8	29B8	29C8	\$ \$ 29D8	29E8	29F8
9	2989	: : : : : :	½ 29A9	<u>1</u>	29C9	\$ 29D9	29E9	29F9
Α) 298A	299A	又	29BA	29CA	}} 29DA	29EA	#+ 29FA
В		>	₹ 29AB	29BB	29CB	\$\$ 29DB	♦ 29EB	# 29FB
С] 298C	L	≯ 29AC	29BC	29CC	2 9DC	Q 29EC	≺
D	298D	299D	☆	1	29CD	⊗ 29DD	29ED	> 29FD
Ε] 298E	<u>/s</u> 299E	▶ 29AE	② 29BE	29CE	ф 29DE	4 29EE	- 29FE
F	298F		4 29AF	29BF	□ 29CF	0—0 29DF	29EF	□ 29FF

Misc	ell	laneous mathematical symbols	299A	*	VERTICAL ZIGZAG LINE	
2980 TRIPLE VERTICAL BAR DELIMITER					→ 2307 \ wavy line	
		→ 2AF4 II triple vertical bar binary relation	Ang	Angles		
		→ 2AFC III large triple vertical bar operator	_		MEASURED ANGLE OPENING LEFT	
2981	•	Z NOTATION SPOT	2002	4	→ 2221 ∠ measured angle	
		 medium-small-sized black circle 	299C	L	RIGHT ANGLE VARIANT WITH	
		→ 2219 • bullet operator		_	SQUARE	
	_	→ 25CF • black circle			\rightarrow 221F \perp right angle	
2982	8	Z NOTATION TYPE COLON	299D	<u> </u>	MEASURED RIGHT ANGLE WITH DOT	
		→ 0F7F % tibetan sign rnam bcad	299E	∠ s	ANGLE WITH S INSIDE	
Brad	:ke	ets	299F	~	ACUTE ANGLE	
2983	{	LEFT WHITE CURLY BRACKET	29A0	*	SPHERICAL ANGLE OPENING LEFT	
2984	u }	RIGHT WHITE CURLY BRACKET			→ 2222 spherical angle	
2985	(LEFT WHITE PARENTHESIS	29A1	¥	SPHERICAL ANGLE OPENING UP	
2900	(→ FF5F (fullwidth left white parenthesis	29A2	7	TURNED ANGLE	
2986)	RIGHT WHITE PARENTHESIS			→ 2220 ∠ angle	
2300	y	• used for Bourbakist intervals	29A3	7	REVERSED ANGLE	
		→ FF60) fullwidth right white parenthesis	29A4	∠	ANGLE WITH UNDERBAR	
2987	1	Z NOTATION LEFT IMAGE BRACKET	29A5	7	REVERSED ANGLE WITH UNDERBAR	
2988	Ď	Z NOTATION RIGHT IMAGE BRACKET	29A6	~	OBLIQUE ANGLE OPENING UP	
2989	1	Z NOTATION LEFT BINDING	29A7	~	OBLIQUE ANGLE OPENING DOWN	
2000	•	BRACKET	29A8	4	MEASURED ANGLE WITH OPEN ARM	
298A	>	Z NOTATION RIGHT BINDING			ENDING IN ARROW POINTING UP	
		BRACKET	29A9		AND RIGHT MEASURED ANGLE WITH OPEN ARM	
298B	[LEFT SQUARE BRACKET WITH	29A9	Δ	ENDING IN ARROW POINTING UP	
		UNDERBAR			AND LEFT	
298C]	RIGHT SQUARE BRACKET WITH	29AA	∀	MEASURED ANGLE WITH OPEN ARM	
0000	-	UNDERBAR		•	ENDING IN ARROW POINTING DOWN	
298D	Ĺ	LEFT SQUARE BRACKET WITH TICK			AND RIGHT	
298E]	IN TOP CORNER RIGHT SQUARE BRACKET WITH TICK	29AB	À	MEASURED ANGLE WITH OPEN ARM	
230L	اد	IN BOTTOM CORNER			ENDING IN ARROW POINTING DOWN	
298F	Г	LEFT SQUARE BRACKET WITH TICK	29AC	**	AND LEFT MEASURED ANGLE WITH OPEN ARM	
2001	Ł	IN BOTTOM CORNER	ZSAC	V	ENDING IN ARROW POINTING RIGHT	
2990	1	RIGHT SQUARE BRACKET WITH TICK			AND UP	
	_	IN TOP CORNER	29AD	শ	MEASURED ANGLE WITH OPEN ARM	
2991	(LEFT ANGLE BRACKET WITH DOT			ENDING IN ARROW POINTING LEFT	
2992	>	RIGHT ANGLE BRACKET WITH DOT			AND UP	
2993	*	LEFT ARC LESS-THAN BRACKET	29AE	₽,	MEASURED ANGLE WITH OPEN ARM	
2994	>	RIGHT ARC GREATER-THAN			ENDING IN ARROW POINTING RIGHT	
		BRACKET	0045		AND DOWN	
2995	*	DOUBLE LEFT ARC GREATER-THAN	29AF	4	MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING LEFT	
		BRACKET			AND DOWN	
2996	×	DOUBLE RIGHT ARC LESS-THAN			AND DOWN	
0007	,	BRACKET	Emp	oty	sets	
2997	(LEFT BLACK TORTOISE SHELL BRACKET	29B0	Ø	REVERSED EMPTY SET	
		→ 3014 [left tortoise shell bracket			→ 2205 Ø empty set	
		→ 3018 [left white tortoise shell bracket			→ 2349 ◊ apl functional symbol circle	
2998)	RIGHT BLACK TORTOISE SHELL			backslash	
	,	BRACKET	29B1 29B2		EMPTY SET WITH OVERBAR	
Fences				Ø	EMPTY SET WITH SMALL CIRCLE	
			0000	ネ	ABOVE	
2999	:	DOTTED FENCE	29B3	Ø	EMPTY SET WITH RIGHT ARROW ABOVE	
		 four close dots vertical 	29B4	Ā	EMPTY SET WITH LEFT ARROW	
			23D4	ω	ABOVE	

29D0 ► VERTICAL BAR BESIDE RIGHT Circle symbols **TRIANGLE** 29B5 → CIRCLE WITH HORIZONTAL BAR → 2296 ⊖ circled minus **Bowtie symbols** 29D1 ⋈ BOWTIE WITH LEFT HALF BLACK 29B7 © CIRCLED PARALLEL → 22C8 ⋈ bowtie 29B8 ♦ CIRCLED REVERSE SOLIDUS 29D2 ⋈ BOWTIE WITH RIGHT HALF BLACK 29B9 © CIRCLED PERPENDICULAR 29D3 ► BLACK BOWTIE CIRCLE DIVIDED BY HORIZONTAL 29BA ⊕ 29D4 ► TIMES WITH LEFT HALF BLACK BAR AND TOP HALF DIVIDED BY → 22C9 × left normal factor semidirect VERTICAL BAR product 29BB ⊗ CIRCLE WITH SUPERIMPOSED X 29D5 ➤ TIMES WITH RIGHT HALF BLACK \rightarrow 2297 \otimes circled times → 22CA × right normal factor semidirect CIRCLED ANTICLOCKWISE-ROTATED 29BC ∅ product **DIVISION SIGN** 29D6 X WHITE HOURGLASS 29BD ① UP ARROW THROUGH CIRCLE = vertical bowtie 29BE ⊚ CIRCLED WHITE BULLET = white framus → 229A ⊙ circled ring operator → 231B \(\text{\subset} \) hourglass → 233E ⊚ apl functional symbol circle jot 29D7 X BLACK HOURGLASS → 25CE © bullseve **Fences** • forms part of a graduated set of circles 29D8 LEFT WIGGLY FENCE with enclosed black circle of different → FE34 | presentation form for vertical wavy low line → 2299 ⊙ circled dot operator 29D9 RIGHT WIGGLY FENCE \rightarrow 25C9 \odot fisheye 29DA # LEFT DOUBLE WIGGLY FENCE → 2A00 ⊙ n-ary circled dot operator RIGHT DOUBLE WIGGLY FENCE 29C0 ⊗ CIRCLED LESS-THAN 29C1 ⊗ CIRCLED GREATER-THAN Miscellaneous mathematical symbols 29C2 ○ CIRCLE WITH SMALL CIRCLE TO THE 29DC ∞ INCOMPLETE INFINITY RIGHT = ISOtech entity ⧜ 29C3 O- CIRCLE WITH TWO HORIZONTAL \rightarrow 221E ∞ infinity STROKES TO THE RIGHT 29DD ∞ TIE OVER INFINITY Square symbols 29DE ◆ INFINITY NEGATED WITH VERTICAL **BAR** 29C4 ☑ SQUARED RISING DIAGONAL SLASH 29DF ∞ DOUBLE-ENDED MULTIMAP → 2341 apl functional symbol quad slash → 22B8 → multimap → 303C 🗵 masu mark 29E0 □ SQUARE WITH CONTOURED OUTLINE = D'Alembertian **SLASH** → 274F □ lower right drop-shadowed white → 2342 \(\square\) apl functional symbol quad square backslash 29C6 ■ SQUARED ASTERISK → 22B4 \(\rightarrow \) normal subgroup of or equal to 29C7 回 SQUARED SMALL CIRCLE 29Е2 ш SHUFFLE PRODUCT → 233B o apl functional symbol quad jot \rightarrow 22FF \equiv z notation bag membership 29C8 SOUARED SOUARE 29C9 中 TWO JOINED SQUARES Relations Triangle symbols 29E3 # **EQUALS SIGN AND SLANTED PARALLEL** 29CA A TRIANGLE WITH DOT ABOVE → 0023 # number sign 29CB TRIANGLE WITH UNDERBAR \rightarrow 22D5 # equal and parallel to 29CC ▲ SIN TRIANGLE 29E4 **EQUALS SIGN AND SLANTED** 29CD △ TRIANGLE WITH SERIFS AT BOTTOM PARALLEL WITH TILDE ABOVE \rightarrow 25B3 \triangle white up-pointing triangle 29E5 # IDENTICAL TO AND SLANTED

PARALLEL

vertical stroke

→ 2A68 # triple horizontal bar with double

29CE ≥ RIGHT TRIANGLE ABOVE LEFT

TRIANGLE

BAR

29E6 ⊨ GLEICH STARK = tautological equivalent

Miscellaneous mathematical symbols

29E7 # THERMODYNAMIC

• vertical bar crossed by two horizontals

 \rightarrow 2260 \neq not equal to

29E8 ▼ DOWN-POINTING TRIANGLE WITH LEFT HALF BLACK

29E9 **V** DOWN-POINTING TRIANGLE WITH RIGHT HALF BLACK

→ 25EE **A** up-pointing triangle with right half black

29EA ♦ BLACK DIAMOND WITH DOWN ARROW

29EB ♦ BLACK LOZENGE

→ 25CA ♦ lozenge

29EC Q WHITE CIRCLE WITH DOWN ARROW

29ED ● BLACK CIRCLE WITH DOWN ARROW

Error bar symbols

29EE 📮 ERROR-BARRED WHITE SQUARE

29EF F ERROR-BARRED BLACK SQUARE

29F0 ♦ ERROR-BARRED WHITE DIAMOND

29F1 → ERROR-BARRED BLACK DIAMOND

29F2 \$\frac{1}{2}\$ ERROR-BARRED WHITE CIRCLE

29F3 ♦ ERROR-BARRED BLACK CIRCLE

Miscellaneous mathematical symbols

29F4 ↔ RULE-DELAYED

= colon right arrow

29F5 \ REVERSE SOLIDUS OPERATOR

→ 005C \ reverse solidus

 \rightarrow 2216 \setminus set minus

29F6 7 SOLIDUS WITH OVERBAR

29F7 \ REVERSE SOLIDUS WITH HORIZONTAL STROKE

Large operators

29F8 / BIG SOLIDUS

→ 2215 / division slash

29F9 \ BIG REVERSE SOLIDUS

= z notation schema hiding

 \rightarrow 2216 \setminus set minus

Specialized plus sign operators

29FA # DOUBLE PLUS

29FB # TRIPLE PLUS

Brackets

29FC 〈 LEFT-POINTING CURVED ANGLE BRACKET

 \rightarrow 227A < precedes

→ 2329 〈 left-pointing angle bracket

29FD > RIGHT-POINTING CURVED ANGLE BRACKET

 \rightarrow 227B > succeeds

 \rightarrow 232A \rangle right-pointing angle bracket

Miscellaneous mathematical symbols

29FE + TINY

 \rightarrow 002B + plus sign

29FF - MINY

→ 2212 – minus sign