Miscellaneous Mathematical Symbols-B

Range: 2980-29FF

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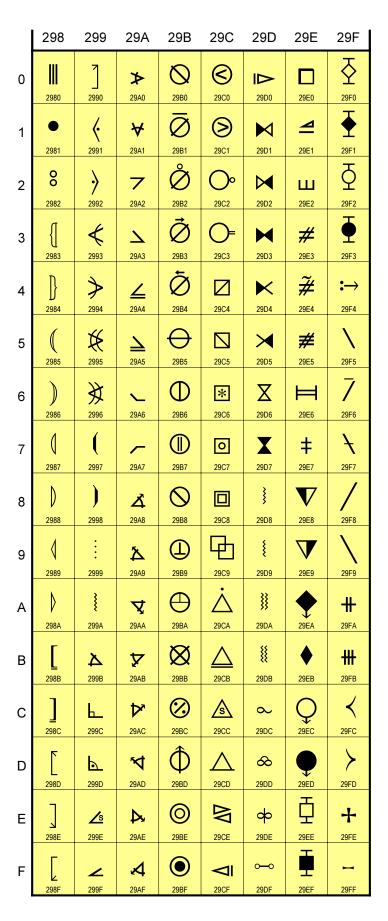
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 $See \ http://www.unicode.org/pending/pending.html \ and \ http://www.unicode.org/unicode/alloc/Pipeline.html.$

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Miscellaneous mathematical symbols		299A	1	VERTICAL ZIGZAG LINE
2980 TRIPLE VERTICAL BAR DELIMITER				→ 2307 \ wavy line
2000	→ 2AF4 triple vertical bar binary relation	Ang	عما	
	→ 2AFC large triple vertical bar operator	_		
2981	Z NOTATION SPOT	299B	4	MEASURED ANGLE OPENING LEFT
2301	medium-small-sized black circle			→ 2221 measured angle
	→ 2219 • bullet operator	299C	Ь_	RIGHT ANGLE VARIANT WITH
	→ 25CF • black circle			SQUARE
2982 8	Z NOTATION TYPE COLON	0000		→ 221F ∟ right angle
2302	→ 0F7F % tibetan sign rnam bcad	299D	₽	MEASURED RIGHT ANGLE WITH DOT
	70171 % tibetaii sigii Illalii bead	299E	⊿	ANGLE WITH S INSIDE
Brackets		299F	_	ACUTE ANGLE
2983	LEFT WHITE CURLY BRACKET	29A0	*	SPHERICAL ANGLE OPENING LEFT
2984	RIGHT WHITE CURLY BRACKET			→ 2222 ⊀ spherical angle
2985 (LEFT WHITE PARENTHESIS	29A1	₩	SPHERICAL ANGLE OPENING UP
2300 (→ FF5F (fullwidth left white parenthesis	29A2	7	TURNED ANGLE
2986	RIGHT WHITE PARENTHESIS			→ 2220 ∠ angle
2986)	• used for Bourbakist intervals	29A3	Δ	REVERSED ANGLE
		29A4	<u>∠</u>	ANGLE WITH UNDERBAR
2987 (→ FF60 》 fullwidth right white parenthesis Z NOTATION LEFT IMAGE BRACKET	29A5	\underline{A}	REVERSED ANGLE WITH UNDERBAR
		29A6	_	OBLIQUE ANGLE OPENING UP
2988	Z NOTATION RIGHT IMAGE BRACKET	29A7	_	OBLIQUE ANGLE OPENING DOWN
2989 (Z NOTATION LEFT BINDING	29A8	Å	MEASURED ANGLE WITH OPEN ARM
2004	BRACKET			ENDING IN ARROW POINTING UP
298A)	Z NOTATION RIGHT BINDING BRACKET			AND RIGHT
298B [LEFT SQUARE BRACKET WITH	29A9	۵	MEASURED ANGLE WITH OPEN ARM
290D [UNDERBAR			ENDING IN ARROW POINTING UP
298C]	RIGHT SQUARE BRACKET WITH			AND LEFT
2300]	UNDERBAR	29AA	4	MEASURED ANGLE WITH OPEN ARM
298D	LEFT SQUARE BRACKET WITH TICK			ENDING IN ARROW POINTING DOWN
2000	IN TOP CORNER	00 4 D		AND RIGHT
298E	RIGHT SQUARE BRACKET WITH TICK	29AB	À	MEASURED ANGLE WITH OPEN ARM
2002	IN BOTTOM CORNER			ENDING IN ARROW POINTING DOWN AND LEFT
298F	LEFT SQUARE BRACKET WITH TICK	29AC	₩.	MEASURED ANGLE WITH OPEN ARM
	IN BOTTOM CORNER	ZJAC	~	ENDING IN ARROW POINTING RIGHT
2990	RIGHT SQUARE BRACKET WITH TICK			AND UP
	IN TOP CORNER	29AD	4	MEASURED ANGLE WITH OPEN ARM
2991 (LEFT ANGLE BRACKET WITH DOT	207 (2		ENDING IN ARROW POINTING LEFT
2992	RIGHT ANGLE BRACKET WITH DOT			AND UP
2993 <	LEFT ARC LESS-THAN BRACKET	29AE	Α.	MEASURED ANGLE WITH OPEN ARM
2994 >	RIGHT ARC GREATER-THAN			ENDING IN ARROW POINTING RIGHT
_00.	BRACKET			AND DOWN
2995 🗯	DOUBLE LEFT ARC GREATER-THAN	29AF	4	MEASURED ANGLE WITH OPEN ARM
	BRACKET			ENDING IN ARROW POINTING LEFT
2996 💥	DOUBLE RIGHT ARC LESS-THAN			AND DOWN
**	BRACKET	Fmr	atv	sets
2997 (LEFT BLACK TORTOISE SHELL	_	_	
	BRACKET	29B0	0	REVERSED EMPTY SET
	→ 3014 [left tortoise shell bracket			→ 2205 Ø empty set
	→ 3018 left white tortoise shell bracket			→ 2349 ♥ apl functional symbol circle backslash
2998	RIGHT BLACK TORTOISE SHELL	29B1	Ō	
	BRACKET	29B1	•	
Fences			Ø	EMPTY SET WITH SMALL CIRCLE ABOVE
		29B3	Ø	EMPTY SET WITH RIGHT ARROW
2999	DOTTED FENCE	7200	W	ABOVE
	four close dots vertical	29B4	Ō	EMPTY SET WITH LEFT ARROW
		2007	U	ABOVE
				· · ·

2986	→ 2296 ⊖ circled minus	D4!	
2986			. aymhala
2987	ZUDU U CIKCLED VEKTICAL DAK		
2988 ○ CIRCLED REVERSE SOLIDUS 2989 ○ CIRCLED PERPENDICULAR 2980 ○ CIRCLED DERPENDICULAR 2981 ○ CIRCLE DEPRENDICULAR 2982 ○ CIRCLE DIVIDED BY HORIZONTAL 2984 ○ CIRCLE WITH SUPERIMPOSED X		29D1 ⋈	
2989			
298A ⊕ CIRCLE DIVIDED BY HORIZONTAL BAR AND TOP HALF DIVIDED BY VERTICAL BAR 298B ⊗ CIRCLE WITH SUPERIMPOSED X → 2297 ⊗ circled times 298C ⊕ CIRCLED ANTICLOCKWISE-ROTATED DIVISION SIGN 298D ⊕ UP ARROW THROUGH CIRCLE 298E ⊕ CIRCLED WHITE BULLET → 229A ⊕ circled ring operator → 231€ ⊕ pl functional symbol circle jot → 235€ ⊕ bullseye 298F ● CIRCLED BULLET ← 12999 ⊕ circled dot operator → 2569 ⊕ fisheye ← 12A00 ⊕ n-ary circled dot operator → 2569 ⊕ fisheye ← 12A00 ⊕ n-ary circled dot operator → 2569 ⊕ fisheye ← 12RCLED GREATER-THAN 29C1 ⊕ CIRCLED URST-THAN 29C2 ← CIRCLE WITH TWO HORIZONTAL STROKES TO THE RIGHT 29C3 ← CIRCLE WITH TWO HORIZONTAL STROKES TO THE RIGHT 29C4 № SQUARED RISING DIAGONAL SLASH → 2341 ☑ apl functional symbol quad backslash → 303C ☑ masu mark 29C6 № SQUARED ASTERISK 29C7 ⊕ SQUARED ASTERISK 29C7 ⊕ SQUARED SMALL CIRCLE ← 233C ℚ apl functional symbol quad backslash → 2342 ☑ apl functional symbol quad backslash 29C6 № SQUARED SQUARES 29C8 ⊕ SQUARED SQUARES 29C9 ⊕ TWO JOINED SQUARES 29C9 ⊕ TRIANGLE WITH DOT ABOVE			
BAR AND TOP HALF DIVIDED BY VERTICAL BAR 29BB			
VERTICAL BAR 29BB ⊗ CIRCLE WITH SUPERIMPOSED X - 2297 ⊗ circled times 29BC © CIRCLED ANTICLOCKWISE-ROTATED DIVISION SIGN 29BD UP ARROW THROUGH CIRCLE 29BE © CIRCLED WHITE BULLET - 229A ○ circled ring operator - 233E @ apl functional symbol circle jot - 256C @ bullseye 29BF © CIRCLED BULLET • forms part of a graduated set of circles with enclosed black circle of different sizes - 2299 ○ circled dot operator - 2569 @ fisheye - 2400 ○ nary circled dot operator - 2509 © fisheye - 2400 ○ nary circled dot operator 29C0 ○ CIRCLED LESS-THAN 29C1 ○ CIRCLED GREATER-THAN 29C2 ○ CIRCLE WITH SMALL CIRCLE TO THE RIGHT 29C3 ○ CIRCLE WITH TWO HORIZONTAL STROKES TO THE RIGHT 29C4 ○ SQUARED RISING DIAGONAL SLASH - 2341 □ apl functional symbol quad slash - 303C □ masu mark 29C6 □ SQUARED ASTERISK 29C7 □ SQUARED SMALL CIRCLE 29C8 □ SQUARED SMALL CIRCLE 29C8 □ SQUARED SMALL CIRCLE 29C9 □ TWO JOINED SQUARES 29C3 □ TRIANGLE WITH DOT ABOVE 29C4 △ TRIANGLE WITH DOT ABOVE 29C5 ■ TRIANGLE WITH DOT ABOVE 29C6 △ TRIANGLE WITH DOT ABOVE 29C7 □ TRIANGLE WITH DOT ABOVE 29C8 △ TRIANGLE WITH DOT ABOVE 29C8 △ TRIANGLE WITH DOT ABOVE 29C8 △ TRIANGLE WITH DOT ABOVE 29D5 ▼ TWO JOINED SQUARES 29D7 ▼ TIMES WITH RIGHT HALF BLACK - 22CA × right normal factor semidirect product - 22CA × HITT RIGHT - 22CA × TIMES WITH FIGHT - 22CA × TIMES WITH FIGHT - 22TH HOUGLASS - 22B4 □ prosentation form for vertical wavy low line 29D7 ▼ BLACK HOURGLASS - PECS - VETICAL BAR - 22H □ Inventional symbol product - FE34 □ presentation form for vertical wavy low line 29D7 ■ INFINITY HITM FIGHT - 18COMPLETE INFINITY - 18COMPLETE INFINITY		29D4 K	
298B			
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29BC		29D5 ×	
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29BF	29BD 🏚 UP ARROW THROUGH CIRCLE	2300 🛕	
- 229A ○ circled ring operator - 233E ◎ apl functional symbol circle jot - 25CE ◎ bullseye 29BF			
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29C0			
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DOUBLE-ENDED MULTIMAP → 303C			
- 303C □ masu mark 29C5 SQUARED FALLING DIAGONAL SLASH - 2342 □ apl functional symbol quad backslash 29C6 SQUARED ASTERISK 29C7 SQUARED SMALL CIRCLE - 233C □ apl functional symbol quad circle 29C8 SQUARED SQUARE 29C9 TWO JOINED SQUARES Triangle symbols - 22B8 → multimap SQUARE WITH CONTOURED OUTLINE = D'Alembertian - 274F □ lower right drop-shadowed white square 1NCREASES AS - 22B4 ≤ normal subgroup of or equal to SHUFFLE PRODUCT - 22FF □ z notation bag membership Relations Triangle symbols 29E3 EQUALS SIGN AND SLANTED PARALLEL		29DF ⊶	
29C5 SQUARED FALLING DIAGONAL SLASH → 2342 apl functional symbol quad backslash 29C6 SQUARED ASTERISK 29C7 SQUARED SMALL CIRCLE → 233C apl functional symbol quad circle 29E1 SQUARES WITH CONTOURED OUTLINE = D'Alembertian → 274F lower right drop-shadowed white square 29E1 INCREASES AS → 22B4 Increased in ormal subgroup of or equal to SHUFFLE PRODUCT 29C8 SQUARED SQUARE 29E2 SHUFFLE PRODUCT → 22FF z notation bag membership 29C4 A TRIANGLE WITH DOT ABOVE 29E3 EQUALS SIGN AND SLANTED PARALLEL			
SLASH → 2342 □ apl functional symbol quad backslash 29C6 □ SQUARED ASTERISK 29C7 □ SQUARED SMALL CIRCLE → 233C □ apl functional symbol quad circle 29C8 □ SQUARED SQUARE 29C9 □ TWO JOINED SQUARES Triangle symbols 29E1 □ INCREASES AS → 22B4 □ normal subgroup of or equal to SHUFFLE PRODUCT → 22FF □ z notation bag membership Relations TRIANGLE WITH DOT ABOVE		29E0 🗆	•
square 29C6 SQUARED ASTERISK 29C7 SQUARED SMALL CIRCLE → 233C apl functional symbol quad circle 29C8 SQUARED SQUARE 29E2 SHUFFLE PRODUCT → 22FF = z notation bag membership Relations Triangle symbols 29E3 # EQUALS SIGN AND SLANTED PARALLEL	•		
29C6 SQUARED ASTERISK 29C7 SQUARED SMALL CIRCLE	→ 2342 \(\square\) apl functional symbol quad		- ·
29C7 SQUARED SMALL CIRCLE → 233C ☐ apl functional symbol quad circle 29C8 SQUARED SQUARE SQUARED SQUARE SHUFFLE PRODUCT → 22FF E z notation bag membership Relations Triangle symbols TRIANGLE WITH DOT ABOVE		2054	
330 ☐ apl functional symbol quad circle 29C8 ☐ SQUARED SQUARE 29C9 ☐ TWO JOINED SQUARES Triangle symbols 29E2 ☐ SHUFFLE PRODUCT → 22FF ☐ z notation bag membership Relations TRIANGLE WITH DOT A BOVE		29ET =	
29C8 SQUARED SQUARE 29C9 TWO JOINED SQUARES Triangle symbols 29C4 ↑ TRIANGLE WITH DOT ABOVE → 22FF □ z notation bag membership Relations EQUALS SIGN AND SLANTED PARALLEL		20E2	
29C9 TWO JOINED SQUARES Triangle symbols 29E3 # EQUALS SIGN AND SLANTED PARALLEL	· · ·	23L2 III	
Triangle symbols 29E3 # EQUALS SIGN AND SLANTED PARALLEL			•
29CA A TRIANGLE WITH DOT A ROVE PARALLEL	29C9 TWO JOINED SQUARES	Relation	ons
29CA A TRIANGLE WITH DOT A BOVE PARALLEL	Triangle symbols	29E3 #	EQUALS SIGN AND SLANTED
ZOON A TRANSPORT WITH DOTADOVE			
\rightarrow UU23 # number sign			→ 0023 # number sign
20CC ∧ SINTRIANGLE			• •
20CD A TRIANCLE WITH CERIES AT DOTTOM 29E4 # EQUALS SIGN AND SLANTED		29E4 🎉	
OFD2 A subite up pointing triangle		2005	
29CE ⋈ RIGHT TRIANGLE ABOVE LEFT 29E5 ≠ IDENTICAL TO AND SLANTED PARALLEL		∠y⊏o #	
TRIANGLE TRIANGLE → 2A68 # triple horizontal bar with double			
29CF ☐ LEFT TRIANGLE BESIDE VERTICAL vertical stroke	29CF		
	BAR		

29E6 ⊨ GLEICH STARK = tautological equivalent

Miscellaneous mathematical symbols

29E7 # THERMODYNAMIC

• vertical bar crossed by two horizontals

 \rightarrow 2260 \neq not equal to

29E8 V DOWN-POINTING TRIANGLE WITH LEFT HALF BLACK

→ 25ED ▲ up-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 O WHITE CIRCLE WITH DOWN ARROW

29ED BLACK CIRCLE WITH DOWN ARROW

Error bar symbols

29EE ERROR-BARRED WHITE SQUARE

29EF ERROR-BARRED BLACK SQUARE

29F0 💆 ERROR-BARRED WHITE DIAMOND

29F1 ₹ ERROR-BARRED BLACK DIAMOND

29F2 ♀ ERROR-BARRED WHITE CIRCLE

29F3 FROR-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