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, Version 7.0

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See http://www.unicode.org/charts/ for access to a complete list of the latest character code charts. See http://www.unicode.org/charts/PDF/Unicode-7.0/ for charts showing only the characters added in Unicode 7.0. See http://www.unicode.org/Public/7.0.0/charts/ for a complete archived file of character code charts for Unicode 7.0.

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

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## Miscellaneous Mathematical Symbols-B

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### Miscellaneous Mathematical Symbols

#### Brackets

- **Brackets:**
  - **LEFT WHITE CURLY BRACKET**
  - **RIGHT WHITE CURLY BRACKET**
  - **LEFT WHITE PARENTHESIS**
  - **RIGHT WHITE PARENTHESIS**
  - **RIGHT SQUARE BRACKET WITH TICK IN TOP CORNER**
  - **RIGHT SQUARE BRACKET WITH TICK IN BOTTOM CORNER**
  - **LEFT SQUARE BRACKET WITH TICK IN TOP CORNER**
  - **LEFT SQUARE BRACKET WITH TICK IN BOTTOM CORNER**

#### Fences

- **FENCES:**
  - **DOTTED FENCE**
  - **VERTICAL ZIGZAG LINE**

#### Angles

- **ANGLES:**
  - **MEASURED ANGLE OPENING LEFT**
  - **RIGHT ANGLE VARIANT WITH SQUARE**
  - **MEASURED RIGHT ANGLE WITH DOT**
  - **ANGLE WITH S INSIDE**
  - **ACUTE ANGLE**
  - **SPHERICAL ANGLE OPENING LEFT**

#### Circle Symbols

- **CIRCLE SYMBOLS:**
  - **CIRCLE WITH HORIZONTAL BAR**
  - **CIRCLED VERTICAL BAR**
  - **CIRCLED PARALLEL**
  - **CIRCLED REVERSE SOLIDUS**
  - **CIRCLE DIVIDED BY HORIZONTAL BAR AND TOP HALF DIVIDED BY VERTICAL BAR**
  - **CIRCLE WITH SUPERIMPOSED X**
  - **UP ARROW THROUGH CIRCLE**
  - **CIRCLED WHITE BULLET**

#### Empty Sets

- **EMPTY SETS:**
  - **REVERSED EMPTY SET**
  - **EMPTY SET WITH OVERBAR**
  - **EMPTY SET WITH SMALL CIRCLE ABOVE**
  - **EMPTY SET WITH RIGHT ARROW ABOVE**

#### Circle with Small Circle to the Right

- **CIRCLE WITH SMALL CIRCLE TO THE RIGHT**

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Square symbols

29C4 ☐ SQUARE RISING DIAGONAL SLASH
→ 2341 ⌇ apl functional symbol quad slash
→ 303C ☐ masu mark

29C5 ☐ SQUARE FALLING DIAGONAL SLASH
→ 2342 ⌈ apl functional symbol quad backslash

29C6 ☐ SQUARE ASTERISK

29C7 ☐ SQUARE SMALL CIRCLE
→ 2338 ⌇ apl functional symbol quad jot

29C8 ☐ SQUARE

29C9 ☐ TWO JOINED SQUARES

Triangle symbols

29CA △ Triangle with dot above
29CB △ Triangle with underbar
29CC △ S IN TRIANGLE
29CD △ Triangle with serifs at bottom
→ 25B3 △ white up-pointing triangle
29CE ☐ Right triangle above left triangle
29CF ☐ Left triangle beside vertical bar
29D0 ▾ Vertical bar beside right triangle

Bowtie symbols

29D1 ♬ Bowtie with left half black
→ 22C8 ♬ bowtie

29D2 ♬ Bowtie with right half black

29D3 ♬ Black bowtie

29D4 ♬ Times with left half black
→ 22C9 ♬ left normal factor semidirect product

29D5 ♬ Times with right half black
→ 22CA ♬ right normal factor semidirect product

29D6 ✠ White hourglass
= vertical bowtie
= white framus
→ 231B ✠ hourglass

29D7 ✠ Black hourglass

Fences

29D8 ☛ Left wiggly fence
→ FE34 ☛ presentation form for vertical wavy low line

29D9 ☛ Right wiggly fence

29DA ☚ Left double wiggly fence

29DB ☚ Right double wiggly fence

Miscellaneous mathematical symbols

29DC ⌘ INCOMPLETE INFINITY
= ISOtech entity &infin;
→ 221E ⌘ infinity

29DD ☐ TIE OVER INFINITY

29DE ☐ INFINITY NEGATED WITH VERTICAL BAR

29DF ☐ DOUBLE-ENDED MULTIMAP
→ 22B8 ☐ multimap
→ 1F73A ☐ alchemical symbol for arsenic

29E0 ☐ SQUARE WITH Contoured outline
= D’Alembertian
→ 274F ☐ lower right drop-shadowed white square

29E1 ➚ Increases as
→ 22B4 ➚ normal subgroup of or equal to

29E2 ➜ Shuffle product
→ 22FF ➜ z notation bag membership

Relations

29E3 ⌈ EQUALS SIGN AND SLANTED PARALLEL
→ 0023 ⌈ number sign
→ 22DS ⌈ equal and parallel to

29E4 ⌉ EQUALS SIGN AND SLANTED PARALLEL WITH TILDE ABOVE

29E5 ⌍ IDENTICAL TO AND SLANTED PARALLEL
→ 2A68 ⌍ triple horizontal bar with double vertical stroke

29E6 ☓ Gleich starr
= tautological equivalent

Miscellaneous mathematical symbols

29E7 ✽ THERMODYNAMIC
= vertical bar crossed by two horizontals
→ 2260 ≠ not equal to

29E8 ⌋ DOWN-POINTING TRIANGLE WITH LEFT HALF BLACK
→ 25ED ⌋ up-pointing triangle with left half black

29E9 ⌊ DOWN-POINTING TRIANGLE WITH RIGHT HALF BLACK
→ 25EE ⌊ up-pointing triangle with right half black

29EA ☾ BLACK DIAMOND WITH DOWN ARROW

29EB ☽ BLACK LOZENGE
→ 25CA ☽ lozenge

29EC ☺ 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 ◁ ERROR-BARRED BLACK CIRCLE

Miscellaneous mathematical symbols

29F4 → RULE-DELAYED
= colon right arrow

29F5 \ REVERSE SOLIDUS OPERATOR
→ 005C \ reverse solidus
→ 2216 \ set minus
→ 27CD \ mathematical falling diagonal

29F6 / SOLIDUS WITH OVERBAR

29F7 \ REVERSE SOLIDUS WITH HORIZONTAL STROKE
→ 2340 \ apl functional symbol backslash bar

Large operators

29F8 / BIG SOLIDUS
→ 2215 / division slash

29F9 \ BIG REVERSE SOLIDUS
= z notation schema hiding
→ 2216 \ set minus

Specialized plus sign operators

29FA ☜ DOUBLE PLUS

29FB ☞ TRIPLE PLUS

Brackets

29FC < LEFT-POINTING CURVED ANGLE Bracket
→ 227A < precedes
→ 2329 < left-pointing angle bracket
29FD \rightarrow \text{RIGHT-POINTING CURVED ANGLE BRACKET}
   \rightarrow 227B \succ succeeds
   \rightarrow 232A \rangle \text{right-pointing angle bracket}

\textbf{Miscellaneous mathematical symbols}

29FE + \text{TINY}
   \rightarrow 002B + \text{plus sign}

29FF \rightarrow \text{MINY}
   \rightarrow 2212 \rightarrow \text{minus sign}