

ASCII Character Set

Some commands described in this publication, such as the **terminal escape-character** EXEC command in the “User Interface Commands” chapter and the **escape-character** line configuration command in the “Terminal Line and Modem Support Commands” chapter require that you enter the decimal representation of an ASCII character.

Table D-1 provides code translations from ASCII characters to the decimal numbers. For example, the ASCII carriage return (CR) is decimal 13. This means that entering Ctrl-M at your terminal generates decimal 13, which is interpreted as a CR.

Table D-1 ASCII Translation Table

| Numeric Values | | ASCII Character | Meaning | Keyboard Entry |
|----------------|-----|-----------------|------------------------------|----------------|
| Decimal | Hex | | | |
| 0 | 00 | NUL | Null | Ctrl-@ |
| 1 | 01 | SOH | Start of heading | Ctrl-A |
| 2 | 02 | STX | Start of text | Ctrl-B |
| 3 | 03 | ETX | Break/end of text | Ctrl-C |
| 4 | 04 | EOT | End of transmission | Ctrl-D |
| 5 | 05 | ENQ | Enquiry | Ctrl-E |
| 6 | 06 | ACK | Positive acknowledgment | Ctrl-F |
| 7 | 07 | BEL | Bell | Ctrl-G |
| 8 | 08 | BS | Backspace | Ctrl-H |
| 9 | 09 | HT | Horizontal tab | Ctrl-I |
| 10 | 0A | LF | Line feed | Ctrl-J |
| 11 | 0B | VT | Vertical tab | Ctrl-K |
| 12 | 0C | FF | Form feed | Ctrl-L |
| 13 | 0D | CR | Carriage return | Ctrl-M |
| 14 | 0E | SO | Shift out | Ctrl-N |
| 15 | 0F | SI | Shift in/XON (resume output) | Ctrl-O |
| 16 | 10 | DLE | Data link escape | Ctrl-P |
| 17 | 11 | DC1 | Device control character 1 | Ctrl-Q |
| 18 | 12 | DC2 | Device control character 2 | Ctrl-R |

| Numeric Values | | ASCII Character | Meaning | Keyboard Entry |
|----------------|-----|--------------------|----------------------------|-------------------|
| Decimal | Hex | | | |
| 19 | 13 | DC3 | Device control character 3 | Ctrl-S |
| 20 | 14 | DC4 | Device control character 4 | Ctrl-T |
| 21 | 15 | NAK | Negative Acknowledgment | Ctrl-U |
| 22 | 16 | SYN | Synchronous idle | Ctrl-V |
| 23 | 17 | ETB | End of transmission block | Ctrl-W |
| 24 | 18 | CAN | Cancel | Ctrl-X |
| 25 | 19 | EM | End of medium | Ctrl-Y |
| 26 | 1A | SUB | substitute/end of file | Ctrl-Z |
| 27 | 1B | ESC | Escape | Ctrl-[|
| 28 | 1C | FS | File separator | Ctrl-\ |
| 29 | 1D | GS | Group separator | Ctrl-] |
| 30 | 1E | RS | Record separator | Ctrl-^ |
| 31 | 1F | US | Unit separator | Ctrl-_ |
| 32 | 20 | SP | Space | Space |
| 33 | 21 | ! | ! | ! |
| 34 | 22 | " | " | " |
| 35 | 23 | # | # | # |
| 36 | 24 | \$ | \$ | \$ |
| 37 | 25 | % | % | % |
| 38 | 26 | & | & | & |
| 39 | 27 | , | , | , |
| 40 | 28 | (| (| (|
| 41 | 29 |) |) |) |
| 42 | 2A | * | * | * |
| 43 | 2B | + | + | + |
| 44 | 2C | , | , | , |
| 45 | 2D | - | - | - |
| 46 | 2E | . | . | . |
| 47 | 2F | / | / | / |
| 48 | 30 | 0 | Zero | 0 |
| 49 | 31 | 1 | One | 1 |
| 50 | 32 | 2 | Two | 2 |
| 51 | 33 | 3 | Three | 3 |
| 52 | 34 | 4 | Four | 4 |
| 53 | 35 | 5 | Five | 5 |
| 54 | 36 | 6 | Six | 6 |
| 55 | 37 | 7 | Seven | 7 |
| 56 | 38 | 8 | Eight | 8 |

| Numeric Values | | ASCII | Meaning | Keyboard Entry |
|----------------|-----|-----------|---------|----------------|
| Decimal | Hex | Character | | |
| 57 | 39 | 9 | Nine | 9 |
| 58 | 3A | : | : | : |
| 59 | 3B | ; | ; | ; |
| 60 | 3C | < | < | < |
| 61 | 3D | = | = | = |
| 62 | 3E | > | > | > |
| 63 | 3F | ? | ? | ? |
| 64 | 40 | @ | @ | @ |
| 65 | 41 | A | A | A |
| 66 | 42 | B | B | B |
| 67 | 43 | C | C | C |
| 68 | 44 | D | D | D |
| 69 | 45 | E | E | E |
| 70 | 46 | F | F | F |
| 71 | 47 | G | G | G |
| 72 | 48 | H | H | H |
| 73 | 49 | I | I | I |
| 74 | 4A | J | J | J |
| 75 | 4B | K | K | K |
| 76 | 4C | L | L | L |
| 77 | 4D | M | M | M |
| 78 | 4E | N | N | N |
| 79 | 4F | O | O | O |
| 80 | 50 | P | P | P |
| 81 | 51 | Q | Q | Q |
| 82 | 52 | R | R | R |
| 83 | 53 | S | S | S |
| 84 | 54 | T | T | T |
| 85 | 55 | U | U | U |
| 86 | 56 | V | V | V |
| 87 | 57 | W | W | W |
| 88 | 58 | X | X | X |
| 89 | 59 | Y | Y | Y |
| 90 | 5A | Z | Z | Z |
| 91 | 5B | [| [| [|
| 92 | 5C | \ | \ | \ |
| 93 | 5D |] |] |] |
| 94 | 5E | ^ | ^ | ^ |

| Numeric Values | | ASCII Character | Meaning | Keyboard Entry |
|----------------|-----|--------------------|---------|-------------------|
| Decimal | Hex | | | |
| 95 | 5F | _ | _ | _ |
| 96 | 60 | ` | ` | ` |
| 97 | 61 | a | a | a |
| 98 | 62 | b | b | b |
| 99 | 63 | c | c | c |
| 100 | 64 | d | d | d |
| 101 | 65 | e | e | e |
| 102 | 66 | f | f | f |
| 103 | 67 | g | g | g |
| 104 | 68 | h | h | h |
| 105 | 69 | i | i | i |
| 106 | 6A | j | j | j |
| 107 | 6B | k | k | k |
| 108 | 6C | l | l | l |
| 109 | 6D | m | m | m |
| 110 | 6E | n | n | n |
| 111 | 6F | o | o | o |
| 112 | 70 | p | p | p |
| 113 | 71 | q | q | q |
| 114 | 72 | r | r | r |
| 115 | 73 | s | s | s |
| 116 | 74 | t | t | t |
| 117 | 75 | u | u | u |
| 118 | 76 | v | v | v |
| 119 | 77 | w | w | w |
| 120 | 78 | x | x | x |
| 121 | 79 | y | y | y |
| 122 | 7A | z | z | z |
| 123 | 7B | { | { | { |
| 124 | 7C | | | |
| 125 | 7D | } | } | } |
| 126 | 7E | ~ | Tilde | ~ |
| 127 | 7F | DEL | Delete | Del |