



9065 - 9080 - 10300

DEC EMULATION

ADDENDUM

78413212-001

Addendum to 9065-9080-10300 User Manual.

The **DEC PPL2** emulation can be selected in the following way:

- 1) Press **PROGRAM** key. The message "**PRINT OUT? NO**" will appear.
- 2) Press **DOWN ARROW** key until the message "**CONFIG MENU NO**" will appear.
- 3) Press **RIGHT ARROW** key. The message "**CONFIG MENU YES**" will appear.
- 4) Press **DOWN ARROW** key until the message "**EMUL. OPTIONS**" will appear.
- 5) Press **RIGHT ARROW** key. The message "**EMUL. EPSON LQ**" will appear.
- 6) Press **RIGHT ARROW** key until the message "**EMUL. DEC PPL2**" will appear.

At this point, if you press the **PROGRAM** key, the **DEC PPL2** emulation will be selected.

Otherwise, if you press **DOWN ARROW** key, you will access the options related to **DEC PPL2** emulation, that is:

- 1) "**G0 C-S US ASCII**" G0 Character Set
- 2) "**UP C-S DEC SUPP**" User Preference Supplemental Character Set
- 3) "**AUTO CR YES**"
- 4) "**AUTO LF NO**"
- 5) "**AUTO WRAP YES**"

The possible values for each option can be selected pressing the **RIGHT ARROW** key.

When you have selected the desired value for each option, press the **PROGRAM** key.

1) G0 Character Set.

| | |
|---------------------------|--------------------------------|
| "G0 C-S US ASCII" | US ASCII |
| "G0 C-S BRITISH" | British |
| "G0 C-S FINNISH" | DEC Finnish |
| "G0 C-S FRENCH" | French |
| "G0 C-S FR/CAN" | DEC French-Canadian |
| "G0 C-S GERMAN" | German |
| "G0 C-S ISO ITAL" | ISO Italian |
| "G0 C-S JIS ROM" | JIS Roman |
| "G0 C-S DNOR/DAN" | DEC Norwegian/Danish |
| "G0 C-S ISO SPAN" | ISO Spanish |
| "G0 C-S SWEDISH" | DEC Swedish |
| "G0 C-S NOR/DAN" | Norwegian/Danish |
| "G0 C-S DUTCH" | DEC Dutch |
| "G0 C-S SWISS" | DEC Swiss |
| "G0 C-S PORTUG" | DEC Portuguese |
| "G0 C-S LEGAL" | Legal |
| "G0 C-S DEC SUPP" | DEC Supplemental |
| "G0 C-S SPEC.GRA" | DEC Special Graphics |
| "G0 C-S TECNICAL" | DEC Technical |
| "G0 C-S 7BIT HEB" | DEC 7-Bit Hebrew |
| "G0 C-S HEBR SUP" | DEC Hebrew Supplemental |
| "G0 C-S 8BIT GRES" | DEC 8-Bit Greek Supplemental |
| "G0 C-S 7BIT TUR" | DEC 7-Bit Turkish |
| "G0 C-S 8BIT TURS" | DEC 8-Bit Turkish Supplemental |
| "G0 C-S JIS KATA" | JIS Katakana |

2) User Preference Supplemental Character Set.

"UP C-S DEC SUPP" DEC Supplemental
"UP C-S SPEC.GRA" DEC Special Graphics
"UP C-S TECNICAL" DEC Technical
"UP C-S 7BIT HEB" DEC 7-Bit Hebrew
"UP C-S HEBR SUP" DEC Hebrew Supplemental
"UP C-S 8BIT GRES" DEC 8-Bit Greek Supplemental
"UP C-S 7BIT TUR" DEC 7-Bit Turkish
"UP C-S 8BIT TURS" DEC 8-Bit Turkish Supplemental
"UP C-S JIS KATA" JIS Katakana
"UP C-S ISO LA-1S" ISO Latin-1 Supplemental
"UP C-S ISO LA-2S" ISO Latin-2 Supplemental
"UP C-S ISO LA-5S" ISO Latin-5 Supplemental
"UP C-S ISO LA-9S" ISO Latin-9 Supplemental
"UP C-S ISO HEBS" ISO Latin-Hebrew Supplemental
"UP C-S ISO LAGRS" ISO Latin-Greek Supplemental
"UP C-S ISO CYRS" ISO Latin-Cyrillic Supplemental

3) Automatic Carriage Return.

"AUTO CR YES"
"AUTO CR NO"

4) Automatic Line Feed.

"AUTO LF NO"
"AUTO LF YES"

5) Automatic Wrap.

"**AUTO WRAP YES**"

"**AUTO WRAP NO**"

For what concerns the **USER MACRO** options:

- **LINE SP.** can assume the following additional values, selectable in all emulations: **2 LPI, 3 LPI, 4 LPI and 10 LPI.**
- **PITCH** can assume the following additional values, selectable only when DEC PPL2 emulation is active: **6.6 CPI, 8.2 CPI, 9 CPI, 13.2CPI, 16.5CPI and 18 CPI.**

Addendum to 9065-9080-10300 Programmer Manual.

DEC PPL2 Quick Reference

This section contains basic information on the DEC PPL2 commands supported in the Compuprint 9065, 9080 and 10300 printers.

The commands are listed by function, in the following order:

- Positioning Controls and Tabs
- Sheet size and margins
- Type size and spacing, managing implicit cursor motion
- Font management and attribute selection
- Selecting character sets
- Reports
- Miscellaneous
- Barcode printing
- Graphics

This guide is intended for use in conjunction with the *Digital Ansi-compliant Printing Protocol Level 2 Programming Reference Manual* and the *Digital Ansi-compliant Printing Protocol Level 2 Programming Supplement*. These are referred to simply as the Programming Reference Manual and the Programming Supplement, respectively.

Characters used in control functions appear in monospaced type. The following table explains some of the conventions used.

A pair of numbers separated by a slash (/) character indicates Column/Row notation. This notation refers to the location of a character in a standard code table, such as ASCII.

Spaces appear between characters in sequences for clarity; they are not part of the format. Space is designated as "SP" when it is part of the format of a command or sequence.

The following conventions are used in the command listings:

Conventions

| Code | Description |
|----------------------|--|
| <i>ESC</i> | Escape (1/11), introduces an escape sequence. |
| <i>CSI</i> | Control Sequence Introducer (9/11), introduces a control sequence. CSI can also be represented by the equivalent escape sequence <i>ESC</i> [(1/11 5/11). |
| <i>DCS</i> | Device Control String (9/0), introduces a device control string. DCS can also be represented by the equivalent escape sequence <i>ESC</i> P (1/11 5/0) |
| <i>ST</i> | String Terminator (9/12) indicates the end of a control string. ST can also be represented by the equivalent escape sequence <i>ESC</i> \ (1/11 5/12). |
| <i>P_n</i> | Numeric parameter, or number of units that specify a distance or quantity pertaining to the escape sequence, control function or control string. |
| <i>P_s</i> | Selective parameter or one that identifies a list of options pertaining to the specific command. If ">" (3/14) or "?" (3/15) occurs at the beginning of a string of parameters, the following parameters are Digital private parameters. ">" or "?", if present must occur only once at the beginning of the parameter string. |
| <i>I_n</i> | Intermediate character - component of an escape sequence, control sequence or control string. |
| <i>F</i> | Final character - component of an escape sequence, control sequence or control string |

| Code | Description |
|-------------|--|
| <i>SP</i> | <p>Space (2/0)</p> <p>C0 Control Characters are given in figure "Standard 8-bit Code Table (Left Half)".</p> <p>C1 Control Characters are given in figure "Standard 8-bit Code Table (Right Half)". In the 7-bit environment, C1 Control Characters can be sent with an escape sequence provided in the following tables.</p> <p>Both numeric and selective parameters are interpreted as unsigned decimal integers, with the most significant digit sent first. For instance, the value 16 is coded as "16" (3/1 3/6). Leading zeros are allowed but are ignored. Plus and minus signs are not allowed.</p> |

Positioning Controls and Tabs

| Mnemonic | Function | Command | Remarks |
|-----------------|--|----------------|---|
| BS | Backspace | 0/8 | <i>C0 Control Code</i> |
| CR | Carriage Return | 0/13 | <i>C0 Control Code</i> |
| FF | Form Feed | 0/12 | <i>C0 Control Code</i> |
| HT | Horizontal Tab | 0/9 | <i>C0 Control Code</i> |
| LF | Line Feed | 0/10 | <i>C0 Control Code</i> |
| VT | Vertical Tab | 0/11 | <i>C0 Control Code</i> |
| HTS | Horizontal Tab Set, at current position | 8/8 | <i>C1 Control Code</i> 7-bit environment: <i>ESC H</i> |
| IND | Index | 8/4 | <i>C1 Control Code</i> 7-bit environment: <i>ESC D</i> |
| NEL | Next Line | 8/5 | <i>C1 Control Code</i> 7-bit environment: <i>ESC E</i> |

| Mnemonic | Function | Command | Remarks |
|----------|---------------------------------------|--|---|
| PLD | Partial Line Down | 8/11 | <i>C1 Control Code</i> 7-bit environment: <i>ESC K</i> Advance paper 1/12 in. |
| PLU | Partial Line Up | 8/12 | <i>C1 Control Code</i> 7-bit environment: <i>ESC L</i> Reverse paper 1/12 in. |
| VTS | Vertical Tab Set, at current position | 8/10 | <i>C1 Control Code</i> 7-bit environment: <i>ESC J</i> |
| DECCAHT | Clear All Horizontal Tabs | <i>ESC 2</i> | |
| DECCAVT | Clear All Vertical Tabs | <i>ESC 4</i> | |
| DECSHTS | Set Horizontal Tab Stops | <i>CSI P_n ; ... ; P_n u</i> P _n = tabstop position (max. 16) | |
| DECsvts | Set Vertical Tab Stops | <i>CSI P_n ; ... ; P_n v</i> P _n = tabstop position (max. 16) | |
| DECHTS | Horizontal Tab Set | <i>ESC 1</i> | |
| DECvts | Vertical Tab Set | <i>ESC 3</i> | |
| TBC | Tab Clear | <i>CSI P_s ; ... ; P_s g</i> | P _s =0: Clear horiz. Tab at active position P _s =1: Clear vert. tab at active position P _s =2 or 3: Clear all horiz. tabs P _s =4: Clear all vert. tabs |
| HPA | Horizontal Position Absolute | <i>CSI P_n '</i> | P _n = position to move to |

| Mnemonic | Function | Command | Remarks |
|----------|---------------------------------|-------------|----------------------------------|
| HPR | Horizontal Position Relative | $CSI P_n a$ | P_n = position of columns down |
| VPA | Vertical Position Absolute | $CSI P_n d$ | P_n = position to move to |
| VPR | Vertical Position Relative | $CSI P_n e$ | P_n = number of lines down |

Sheet Size and Margins

| Mnemonic | Function | Command | Remarks |
|----------|---------------------------------------|--------------------------|--|
| DECSLPP | Set Lines per Physical Page | $CSI P_n t$ | P_n = number of lines per pages |
| DECVPLA | Set Vertical Page Length Alignment | $CSI P_{n1}; P_{n2} - u$ | P_{n1} = Position of the origin from top of form (in 1/720 in.) P_{n2} = Paper length (in 1/720 in.) |
| DECSLRM | Set Left and Right Margins | $CSI P_{n1}; P_{n2} s$ | P_{n1} = left margin P_{n2} = right margin |
| DECHPWA | Set Page Width Alignment | $CSI P_{n1}; P_{n2} " s$ | P_{n1} = origin (in 1/12 in.) P_{n2} = paper width (in 1/12 in.) |
| DECSTBM | Set Top and Bottom Margins | $CSI P_{n1}; P_{n2} r$ | P_{n1} = top margin P_{n2} = bottom margin |

Type Size and Spacing, Managing Implicit Cursor Motion

| Mnemonic | Function | Command | Remarks |
|----------|-----------------------------------|--------------|--|
| DECAWM | Autowrap Mode | $CSI ? 7 h$ | Set autowrap mode |
| | | $CSI ? 7 l$ | Reset autowrap mode |
| DECCRNLM | Carriage Return/ New Line Mode | $CSI ? 40 h$ | CR acts as New Line |
| | | $CSI ? 40 l$ | CR acts as Carriage Return |
| DECPSP | Proportional Spacing Mode | $CSI ? 27 h$ | Sets proportional spacing mode |
| | | $CSI ? 27 l$ | Resets proportional spacing mode |
| DECSHORP | Set Horizontal Pitch | $CSI P_s w$ | $P_s = 0: 10 \text{ CPI}$ $P_s = 8: 8.25 \text{ CPI}$ $P_s = 1: 10 \text{ CPI}$ $P_s = 9: 15 \text{ CPI}$ $P_s = 2: 12 \text{ CPI}$ $P_s = 11: 17.1 \text{ CPI}$ $P_s = 3: 13.2 \text{ CPI}$ $P_s = 12: 8.55 \text{ CPI}$ $P_s = 4: 16.5 \text{ CPI}$ $P_s = 13: 18 \text{ CPI}$ $P_s = 5: 5 \text{ CPI}$ $P_s = 14: 9 \text{ CPI}$ $P_s = 6: 6 \text{ CPI}$ $P_s = 15: 10 \text{ CPI}$ $P_s = 7: 6.6 \text{ CPI}$ $P_s = 16: 20 \text{ CPI}$ |
| DECVERP | Set Vertical Pitch | $CSI P_s z$ | $P_s = 0: 6 \text{ LPI}$ $P_s = 1: 6 \text{ LPI}$ $P_s = 2: 8 \text{ LPI}$ $P_s = 3: 12 \text{ LPI}$ $P_s = 4: 2 \text{ LPI}$ $P_s = 5: 3 \text{ LPI}$ $P_s = 6: 4 \text{ LPI}$ $P_s = 7: 10 \text{ LPI}$ $P_s = 10: \text{ same as PS } = 1$ $P_s = 21: 4 \text{ LPcm}^*$ $P_s = 22: 2 \text{ LPcm}$ $P_s = 23: 1 \text{ LPcm}$ $\underline{P_s = 10-17 \text{ same as 0-7; 21-23 same as 31-33}}$ |

| Mnemonic | Function | Command | Remarks |
|----------|---------------------------|-----------------------------|--|
| GSM | Graphic Size Modification | $CSI Pn_1 ;$ $Pn_2 SP B$ | $P_{n1} = 100$: Normal height characters $P_{n1} = 200$: Double height $P_{n1} = 300$: Triple height $P_{n1} = 400$: Quadruple height $P_{n2} = 100$: Normal width characters $P_{n2} = 200$: Double width $P_{n2} = 300$: Triple width $P_{n2} = 400$: Quadruple width |
| LNM | Line Feed/New Line Mode | $CSI 2 0 h$ $CSI 2 0 l$ | LF acts as new line. LF acts as line feed. |

* LPcm = Lines per centimeter

Font Management and Attribute Selection

| Mnemonic | Function | Command | Remarks |
|----------|---|------------|--|
| SGR | Select Graphic Rendition <i>Selecting Font</i> | $CSI Ps m$ | $P_s = 10$: Courier $P_s = 11$: Courier $P_s = 12$: Gothic $P_s = 13$: Prestige $P_s = 14$: Script $P_s = 15$: Courier $P_s = 16$: Presentor $P_s = 17$: Optional card font (not available) $P_s = 18$: OCR-A $P_s = 19$: OCR-B $P_s = ?12$: Data Block |

Font Management and Attribute Selection (cont.)

| Mnemonic | Function | Command | Remarks |
|----------|--|-------------|--|
| SGR | Select Graphic Rendition- <i>Selecting Attributes</i> | $CSI P_s m$ | <p>$P_s = 0$: Turn off all attributes, standard and private</p> <p>$P_s = 1$: Bold on</p> <p>$P_s = 3$: Slant on</p> <p>$P_s = 4$: Underline on; double underline off</p> <p>$P_s = 9$: Strike-through on</p> <p>$P_s = 21$: Double underline on, underline off</p> <p>$P_s = 22$: Bold off</p> <p>$P_s = 23$: Slant off</p> <p>$P_s = 24$: Any underline off</p> <p>$P_s = 29$: Strike-through on</p> <p>$P_s = 30$: Print Text in black</p> <p>$P_s = 31$: Print text in red</p> <p>$P_s = 32$: Print text in green</p> <p>$P_s = 33$: Print text in yellow</p> <p>$P_s = 34$: Print text in blue</p> <p>$P_s = 35$: Print text in magenta</p> <p>$P_s = 36$: Print text in cyan</p> <p>$P_s = 37$: Print text in "white" (no printing)</p> <p>$P_s = 39$: Print text in black</p> <p>$P_s = 53$: Overline on</p> <p>$P_s = 55$: Overline off</p> <p>$P_s = ?0$: All private attributes off</p> <p>$P_s = ?4$: Superscript on, subscript off</p> <p>$P_s = ?5$: Subscript on, superscript off</p> <p>$P_s = ?6$: Overline on</p> <p>$P_s = ?24$: Superscript and subscript off</p> <p>$P_s = ?26$: Overline off</p> |

| Mnemonic | Function | Command | Remarks |
|----------|----------------------------|---|--|
| DECDLD | Download Font | DCS $parameter_string$ $\{ D \dots D ST$ | See the <i>Programming Reference Manual</i> |
| DECDEN | Printing Density Selection | $CSI Ps " z$ | $P_s = 0$ or 1 : Select draft $P_s = 2$: Select letter quality $P_s = 3$: Select best draft $P_s = 4$: Select near letter quality $P_s = 5$: Select high speed draft |

Selecting Character Sets

| Mnemonic | Function | Command | Remarks |
|----------|-------------------------------|----------------------------|---|
| ASCEF | Announce | $ESC SP L$ | ASCII in G0 and GL. |
| | Subset of Code | $ESC SP M$ | ISO Latin-1 in G1 and GR. |
| | Extension | $ESC SP N$ | Same as $ESC SP L$ |
| | Facilities | | ASCII in G0 and GL. |
| DECAUPSS | Assign User Preference | $DCS P_s ! u D \dots D ST$ | $P_s = 0$: 94-char.set $P_s = 1$: 96-char.set D ... D:SCS designating sequence. |
| | Supplemental Set | | |
| | Single Shift 2 | $C1 Control Code$ | Take the next character from G2 7-bit environment: $ESC N$ |
| | Single Shift 3 | $C1 Control Code$ | Take the next character from G3 7-bit environment: $ESC O$ |
| LS0 | Locking Shift 0 (or Shift In) | SI | Invoke G0 into GL |

| Mnemonic | Function | Command | Remarks |
|----------|-----------------------------------|-------------------------------------|--|
| LS1 | Locking Shift 1 (or Shift Out) | SO | Invoke G1 into GL |
| LS2 | Locking Shift 2 | ESC n | Invoke G2 into GL |
| LS3 | Locking Shift 3 | ESC o | Invoke G3 into GL |
| LS1 | Locking Shift 1 Right | ESC ~ | Invoke G1 into GR |
| LS2 | Locking Shift 2 Right | ESC } | Invoke G2 into GR |
| LS3 | Locking Shift 3 Right | ESC | Invoke G3 into GR |
| SCS | Select Character Set | ESC I ₁ I ₂ F | I ₁ = "(": Invoke 94-char.set into G0 I ₁ = ")": Invoke 94-char.set into G1 I ₁ = "*": Invoke 94-char.set into G2 I ₁ = "+": Invoke 94-char.set into G3 I ₁ = "-": Invoke 96-char.set into G1 I ₁ = ".": Invoke 96-char.set into G2 I ₁ = "/": Invoke 96-char.set into G3 I ₂ F = final characters from "SCS Final Characters". |

SCS Final Characters

| Character Set | I₂ F Designator Characters | |
|--------------------------|--|-----------|
| 94-Character Sets | | |
| British | A | 4/1 |
| ASCII | B | 4/2 |
| DEC Dutch | 4 | 3/4 |
| DEC Finnish | 5 | 3/5 |
| French | R | 5/2 |
| DEC French-Canadian | 9 | 3/9 |
| German | K | 4/11 |
| DEC Hebrew Supplemental | "4 | 2/2, 3/4 |
| DEC 7-Bit Hebrew | %= | 2/5, 3/13 |
| ISO Italian | Y | 5/9 |
| Legal | %4 | 2/5, 3/4 |
| JIS Katakana | I | 4/9 |
| JIS Roman | J | 4/10 |
| DEC Norwegian/Danish | 6 | 3/6 |
| ISO Spanish | Z | 5/10 |
| DEC Swedish | 7 | 3/7 |
| DEC Swiss | = | 3/13 |
| Norwegian/Danish | ' | 6/0 |
| DEC Supplemental | %5 | 2/5, 3/5 |
| DEC Technical | > | 3/14 |
| DEC Special Graphics | 0 | 3/0 |
| DEC Portuguese | %6 | 2/5, 3/6 |

SCS Final Characters (cont.)

| Character Set | I₂ F Designator Characters | |
|-------------------------------------|--|-----------|
| 94-Character Sets | | |
| DEC 7-Bit Turkish | %2 | 2/5, 3/2 |
| DEC 8-Bit Turkish Supplemental | %0 | 2/5, 3/0 |
| DEC 8-Bit Greek Supplemental | "? | 2/2, 3/15 |
| User Preference Supplemental | < | 3/12 |
| Download Character Set | SP@ | 2/0, 4/0 |
| User Preference Supplemental | | |
| 96-Character Sets | | |
| ISO Latin-1 Supplemental | A | 4/1 |
| ISO Latin-2 Supplemental | B | 4/2 |
| ISO Latin-Greek Supplemental | F | 4/6 |
| ISO Latin-Hebrew Supplemental | H | 4/8 |
| ISO Latin-Cyrillic Supplemental | L | 4/12 |
| ISO Latin-5 Supplemental | M | 4/13 |
| ISO Latin-9 Supplemental (*) | b | 6/2 |
| User Preference Supplemental | < | 3/12 |
| Dowloaded Character Set | SP@ | 2/0, 4/0 |

(*) Contains the Euro Symbol

SCS Final Characters for Fallback Character Sets

| Character Set Conventions | F Designator Character | |
|----------------------------------|------------------------|-----|
| Fallback to DEC Finnish | C | 4/3 |
| Fallback to DEC French Canadian | Q | 5/1 |
| Fallback to DEC Norwegian/Danish | E | 4/5 |
| Fallback to DEC Swedish | H | 4/8 |

Reports

| Mnemonic | Function | Command | Remarks |
|----------|------------------------------------|---|---|
| DA | Device Attributes | CSI Ps c | Request Device Attributes Report. Ps must be 0. |
| DAR | Device Attributes Report | ESC [? P _{s1} ; P _{s2} ; ... ; P _{sn} c (printer to host) | P _{s1} = 72 P _{s2} -P _{sn} describe extensions. See the Programming Supplement. |
| DA2 | Secondary Device Attributes | CSI > P _s c | P _s must be 0. |
| DA2R | Secondary Device Attributes Report | ESC [> P _{s1} ; P _{s2} ; P _{s3} ; P _{s4} ; P _{s5} c (printer to host) | P _{s1} = 69 P _{s2} = firmware revision x 10 P _{s3} = 0 (or 1 reserved) P _{s4} = 20 P _{s5} = firmware edit revision |

Reports (cont.)

| Mnemonic | Function | Command | Remarks |
|----------|----------------------------------|---|--|
| DECLANS | Load ANSWERBACK without Password | $DCS P_{s1} v$ $encoded_mess_string$ ST | Message is Hex. encoded. |
| DECLANS | Load ANSWERBACK with Password | $DCS P_{s1};P_{n2};P_{n3}v$ $encoded_mess_string$ ST | $P_s = 1$: No password - Do not store message. $P_s = 2$: No password - Store message: $P_s = 3$: Password – Store P_{n2} : Old password P_{n3} : New password Default password: 0 Password range: 0 - 9999 |
| ENQ | Send ANSWERBACK Message | $O/5$ | $C0$ Control Code |
| DECRFS | Request Font Status | $CSI Ps " \{$ | P_s must be 3 |
| DSR | Device Status Request | $CSI Ps n$ | $P_s = 0$ or 5 : Request extended DSR $P_s = ?1$: Disable unsolicited reports $P_s = ?2$: Enable brief unsolicited reports, send extended report $P_s = ?3$: Enable/send extended unsolicited reports (Not supported) |
| DSR | Device Status Report | <i>Brief:</i> $CSI P_s n$ <i>Extended:</i> $brief, followed by CSI ? P_{n1} ; P_{n2} ; \dots ; P_{nn} n$ | $P_s = 0$: No errors $P_s = 3$: Error See the <i>Programming Supplement</i> for extended report.(Not supported) |

Miscellaneous

| Mnemonic | Function | Command | Remarks |
|----------|---------------------------------|--|---|
| BEL | Bell | $O/7$ | C0 Control Code |
| DECSCL | Select Conformance Level | $CSI Ps1 " p$ | $P_s = 0$: reset native level $P_s = 71$: reset - DEC PPL1 $P_s = 72$: reset - DEC PPL2 |
| DECSTR | Soft Terminal Reset | $CSI ! p$ | Reset to initial state |
| RIS | Reset to initial state | $ESC c$ | Reset to initial state |
| DECIPREM | IBM Proprinter Protocol Mode | $CSI ? 58 h$ $CSI ? 58 l$ | Deprecated function |
| ROCS | Return from Other Coding System | $ESC \% @$ | Return to DEC PPL2 mode |
| SOCS | Select Other Coding System | $ESC \% =$ $ESC \% SP 2$ | IBM Proprinter Protocol EPSON Protocol |
| CRM | Control Representation Mode | $CSI 3 h$ $CSI 3 1$ | Print hex representation for all characters (Not supported) Reset (Not supported) |
| DECFNVR2 | Load Factory NVR Settings | $CDS P_{s1} ; P_{s2} "$ s data_string ST | $P_{s1} = 0$: omitted, default $P_{s1} = 1$: Store current state (data ignored) $P_{s1} = 2$: Modify with following data, store $P_{s1} = 3$: Load NVRAM, modify, store $P_{s1} = 4$: Load Factory Defaults, modify, store $P_{s2} = 0$: omitted, default $P_{s2} = 1$: data is ASCII encoded setup $P_{s1} ; P_{s2} ; \dots ; P_{si} ; \dots$ P_{si} : index of the value for parameter i $P_{si} = 0$ or omitted: leave unchanged (Not supported) |

Miscellaneous

| Mnemonic | Function | Command | Remarks |
|------------------|--------------------------------|--|--|
| DECASFC | Automatic Sheet Feeder Control | CSI P _s ! v | P _s = 0: No change, eject paper P _s = 1-3: Tray n (reserved) P _s = 4: Front1 Tractor feeding P _s = 5: Front2 Tractor feeding P _s = 99: No change, eject paper |
| DECSITF | Select Input Tray Failover | CSI P _{s1} ; P _{s2} ; ... ; P _{sn} SP w | P _{s1} = 0: Disable all composite input trays P _{s1} = 1: Define composite tray n P _{s2} -P _{sn} = n: Add tray n to the composite definition (Not supported) |
| DECPHGC | Printhead Gap Control | CSI P _s - s | P _s = 0: Automatic Gap Control (AGC) P _s = 1-5: Programmable Copy Control mode (PCC) - number of copies (Not supported) |
| DECUPM | Unidirectional Print Mode | CSI ? 41 h CSI ? 41 l | Selects unidirectional printing Selects bi-directional printing |
| SnC1R /DEC*C1 | C1 Transmit /Receive | ESC SP 6 ESC SP 7 ESC SP F ESC SP G | Process 7-bit, drop 8th bit Process 7-bit and 8-bit Transmit 8-bit as 7-bit equivalents (not supported) Transmit 8-bit (not supported) |

Barcode Printing

| Mnemonic | Function | Command | Remarks |
|----------|----------------------------|--|---|
| DECBAR | Start or Stop Bar Codes | ESC % SP 0 ESC % @ | Start bar code. Stop bar code. |
| DECSBCA | Select Bar Code Attributes | CSI P _{s1} ; P _{s2} ; ... ; P _{s9} ' q | |
| | Parameter | Description | Value |
| | P _{s1} | Bar Code System | 0, 2: Code 3 of 9 1: Interleaved 2 of 5 4: EAN 8 5: EAN 13 7: Codabar a/t 8: Codabar b/n 9: Codabar c/* 10: Codabar d/e 11: UPC-A 12: UPC-E 13: Postnet 14: Industrial 2 of 5 15: Code 93 16: MSI mod 10/10 17: Code 128 (EAN 128) 18: Matrix 2 of 5 |
| | P _{n2} | Width of narrow bars in decipoints | Supported values: 8 to 45 (default = 10) Not applicable to UPC, EAN and Postnet systems. |

Barcode Printing (cont.)

| Mnemonic | Function | Command | Remarks |
|----------|-----------------|------------------------------------|--|
| | Parameter | Description | Value |
| | P _{n3} | Width of quiet zones in decipoints | Supported value: 180. |
| | P _{n4} | Width of wide bars in decipoints | For EAN, UPC, supported values are in the range 20 to 158 (default is 25). P _{n4} is not used for Code 93, MSI 10/10 and Code 128 systems. Postnet bar code style is fixed to 0,0217" for bars and to 0,0255" for spaces. Pitch is 21,18 bars/inch. |
| | P _{n5} | Ignored | |
| | P _{n6} | Height of bars in decipoints | Min = 60 Max = 2400 Default = 120 |
| | P _{n7} | Ignored | |
| | P _{n8} | Orientation | 0, 1 or none : Horizontal symbol from left to right (portrait) 3: Vertical symbol from bottom to top (landscape - not applicable for EAN 8 & 13, UPC A & E) |
| | P _{s9} | Human Readable Characters | 0, 1: No HRC 2, 3, 4: Print HRC in OCR B Ignored for Postnet |

Notes on Barcode Printing

After printing bar code, appropriate positioning control commands, must be sent to print additional barcode strings, text or graphics.

In the following examples, HPA Pn command positions the Active Position at column Pn, VPA Pn command positions the Active Position at line Pn.

1. Two barcodes Code 39 on the same line:

| | |
|--|---------------------------------|
| DECSBCA | CSI 0;;;;;;'q |
| DECBAR(start) data DECBAR(stop) HPA Pn | ESC % SP0 data ESC % @ CSI Pn ' |
| DECBAR (start) data DECBAR (stop) | ESC % SP0 data ESC % @ |

2. Two barcodes Code 39 on the same line:

| | |
|--|---------------------------------|
| DECSBCA | CSI 0;;;;;;'q |
| DECBAR(start) data DECBAR(stop) VPA Pn | ESC % SP0 data ESC % @ CSI Pn d |
| DECBAR (start) data DECBAR (stop) | ESC % SP0 data ESC % @ |

Sixel Graphics Device Control String Envelope

| Mnemonic | Function | Command |
|-----------------------------|-------------------|---|
| <i>DCS</i> | String Introducer | |
| $P_{s1}; P_{n2} ; P_{n3} q$ | Protocol Selector | P_{s1} : macro parameter, select horizontal grid size and pixel aspect ratio. See Table D-12. P_{s2} : ignored. P_{n3} : horizontal grid size - overrides P_{s1} for horizontal grid size - aspect ratio unchanged. See Table D-13. |
| <i>sixel data</i> | Picture data | Includes sixel printable characters and sixel control codes. See Table D-14. |
| <i>ST</i> | String Terminator | Exit Sixel Graphics mode and return to text mode. |

TABLE D-12 Sixel Graphics Protocol Selector Ps1

| Ps1 Value | Horizontal Grid Size (inches) | Aspect Ratio (Vert:Hor)* |
|--------------|-------------------------------|--------------------------|
| 0, 1 or none | 1/144 | 2 |
| 2 | 1/360 | 5 |
| 3, 4 | 1/180 | 2.5 |
| 5, 6, 7, 8 | 1/144 | 2 |
| 9 | 1/72 | 1 |
| > 9 | 1/144 | 2 |

* Vertical Grid Size = 1/72 inch, unless modified by P_{n3} or DECGRA.

TABLE D-13**Sixel Graphics Grid Size defined by P_{n3}**

| Pn 3 Value | HGS:VGS (dpi) by Aspect Ratio (defined by P_{s1}) | | | |
|------------|--|---------|---------|--------|
| | 1:1 | 2:1 | 2.5:1 | 5:1 |
| 0 or none | No change to HGS and VGS defined by P_{s1} | | | |
| 1, 2 | 360:360 | 360:180 | 360:144 | 360:72 |
| 3, 4 | 180:180 | 180:90 | 180:72 | 180:36 |
| 5, 6, 7 | 144:144 | 144:72 | 180:72 | 180:36 |
| 8, 9 | 90:90 | 90:45 | 90:36 | 180:36 |
| 10 - 15 | 72:72 | 72:36 | 90:36 | 180:36 |
| 16, 19 | 45:45 | 72:36 | 90:36 | 180:36 |
| > 20 | 36:36 | 72:36 | 90:36 | 180:36 |

TABLE D-14**Sixel Graphics Control Codes**

| Mnemonic | Function | Command | Remarks |
|----------|----------------------------|---------|--|
| DECGRA | Set Raster Attributes | " (2/2) | Defines the pixel aspect ratio. Followed by parameters P_{n1} ; P_{n2} ; P_{n3} ; P_{n4} P_{n1} : Pixel aspect ratio numerator (A) P_{n2} : Pixel aspect ratio denominator (R), where $0 < A/R < 1.5$ corresponds to 1:1 $1.5 \leq A/R << 2.25$ corresponds to 2:1 $2.25 \leq A/R << 3.75$ corresponds to 2.5:1 $3.75 \leq A/R$ corresponds to 5:1 P_{n3} and P_{n4} : ignored |
| DECGRI | Graphics Repeat Introducer | ! (2/1) | Followed by a numeric value P_n and a sixel data to be repeated P_n times. |

| Mnemonic | Function | Command | Remarks |
|----------|---------------------------|-------------------|--|
| DECGCR | Graphics Carriage Return | \$ (2/4) | Returns active positions to graphics left margins |
| DECGNL | Graphics Next Line | - (2/13) | Returns active position to graphics left margin on the following line |
| DECGCI | Graphics Color Introducer | # (2/3) | Assigns a color to a color number or selects a predefined color number. Followed by parameters $P_c ; P_u ; P_x ; P_y ; P_z$ P_c : Color number (0-255) P_u : Universal coordinate system selector: 1=HLS, 2=RGB P_x, P_y, P_z : color coordinates. |
| | Parameter Characters | 0-9 (3/0) - (3/9) | Numeric parameters - used on the above control codes |
| | Parameter Separator | ; (3/11) | Separates parameters - used on the above control codes |
| | Sixel Data | (3/15 – 3/14) | Sixel printable characters. The printer subtracts the offset (3F hexadecimal) from the received code, assigning each of the remaining low-order six bits to a grid position: LSB = top pixel MSB = bottom pixel Examples: ? (3/15): blank character @ (4/0): print only top pixel A (4/1) : print second-from-top pixel ~ (7/15): print one full column |

Standard 8-bit Code Table (Left Half)

| Standard Left | | | | | | | | | | | | | | |
|----------------|-------------|------------------------------|----------------------|---------------------|----------------------|----------------------|----------------------|-----------------------|-------------------------|---|----|----|----|----|
| C0 Control Set | | | | Graphics Left (GL) | | | | | | | | | | |
| | Column 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| Row 0 | 0 0 0 | DLE 20 18 10 | SP 40 32 20 | 0 60 48 30 | @ 100 84 40 | P 120 80 50 | ' 140 96 60 | p 160 112 70 | | | | | | |
| 1 | 1 1 1 | DC1 21 17 11 | ! | 41 33 21 | 1 61 49 31 | A 101 65 41 | Q 121 81 51 | a 141 97 61 | q 161 113 71 | | | | | |
| 2 | 2 2 | DC2 22 18 12 | " | 42 34 22 | 2 62 50 32 | B 102 66 42 | R 122 82 52 | b 142 98 62 | r 162 114 72 | | | | | |
| 3 | 3 3 | DC3 23 19 13 | # | 43 35 23 | 3 63 51 33 | C 103 67 43 | S 123 83 53 | c 143 99 63 | s 163 115 73 | | | | | |
| 4 | 4 4 | DC4 24 20 14 | \$ | 44 36 24 | 4 64 52 34 | D 104 68 44 | T 124 84 54 | d 144 100 64 | t 164 116 74 | | | | | |
| 5 | 5 5 | ENQ NAK 25 21 15 | % | 45 37 25 | 5 65 53 35 | E 105 69 45 | U 125 85 55 | e 145 101 65 | u 165 117 75 | | | | | |
| 6 | 6 6 | ACK SYN 26 22 16 | & | 46 38 26 | 6 66 54 36 | F 106 70 46 | V 126 86 56 | f 146 102 66 | v 166 118 76 | | | | | |
| 7 | 7 7 | BEL ETB 27 23 17 | ' | 47 39 27 | 7 67 55 37 | G 107 71 47 | W 127 87 57 | g 147 103 67 | w 167 119 77 | | | | | |
| 8 | 8 8 | BS CAN 30 24 18 | (| 50 40 28 | 8 70 56 38 | H 110 72 48 | X 130 88 58 | h 150 104 68 | x 170 120 78 | | | | | |
| 9 | 9 9 | HT EM 31 25 19 |) | 51 41 29 | 9 71 57 39 | I 111 73 49 | Y 131 89 59 | i 151 105 69 | y 171 121 79 | | | | | |
| 10 | 12 A | LF SUB 32 26 1A | * | 52 42 2A | : | J 112 74 4A | Z 132 90 5A | j 152 106 6A | z 172 122 7A | | | | | |
| 11 | 13 B | VT ESC 33 27 1B | + | 53 43 2B | : | K 113 75 4B | [133 91 5B | k 153 107 6B | { 173 123 7B | | | | | |
| 12 | 14 C | FF FS 34 28 1C | , | 54 44 2C | < | L 114 76 4C | \ 134 92 5C | l 154 108 6C | 174 124 7C | | | | | |
| 13 | 15 D | CR GS 35 29 1D | - | 55 45 2D | = | M 115 77 4D |] 135 93 5D | m 155 109 6D | } 175 125 7D | | | | | |
| 14 | 16 E | SO RS 36 30 1E | . | 56 46 2E | > | N 116 78 4E | ^ 136 94 5E | n 156 110 6E | ~ 176 126 7E | | | | | |
| 15 | 17 F | SI US 37 31 1F | / | 57 47 2F | ? | O 117 79 4F | — 137 95 5F | o 157 111 6F | DEL 177 127 7F | | | | | |

LEGEND

| GL | Column/Row |
|-----|------------|
| 4/1 | Octal |
| 101 | Decimal |
| 65 | Hex |
| 41 | |

A

ASCII Graphic Character Set

MLO-003973

Standard 8-bit Code Table (Right Half)

Standard Right

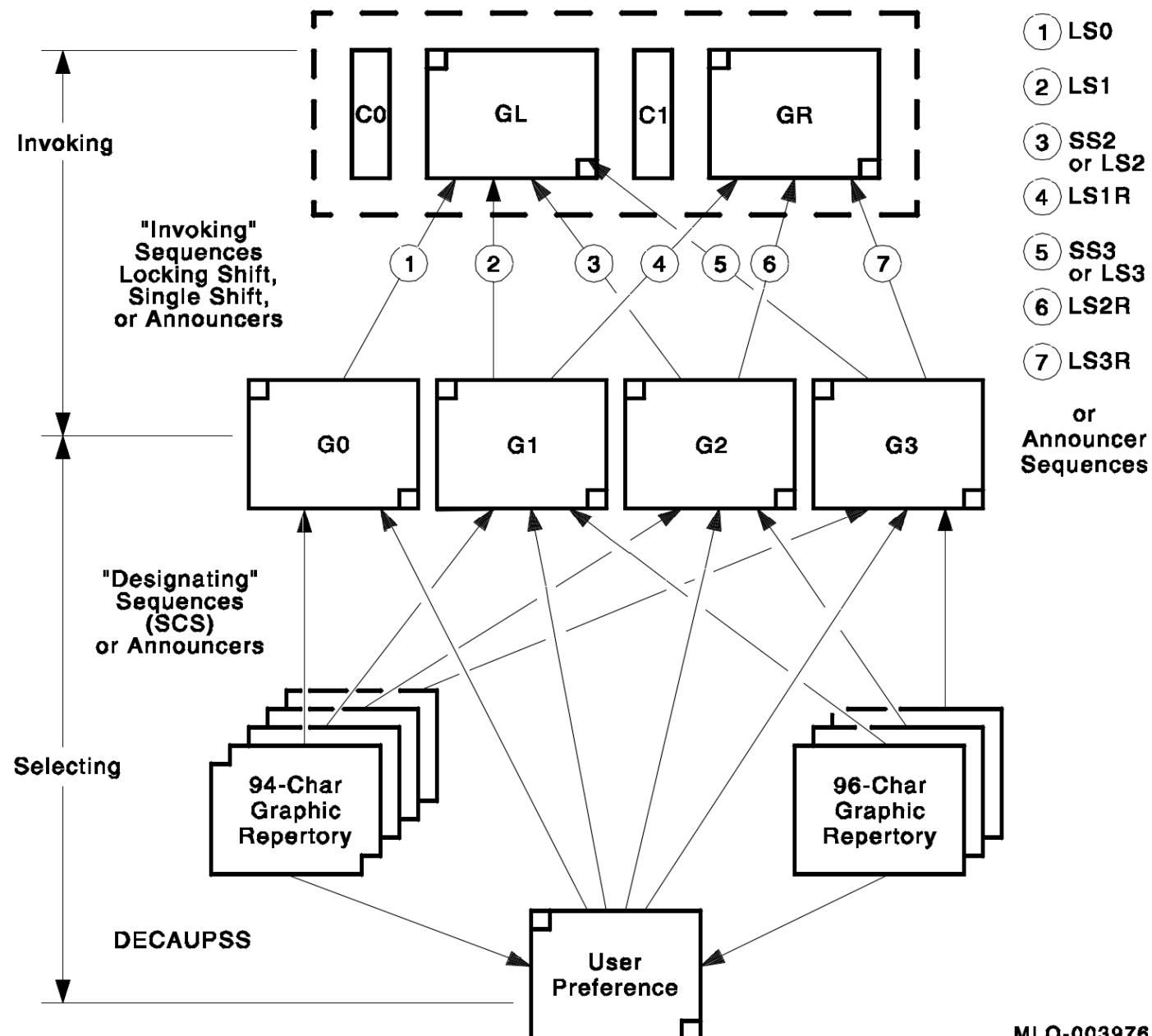
| C1 Control Set | | | | Graphics Right (GR) | | | | | | | | | | |
|----------------|------------------|-------------------------|------------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|--|--|
| | Column 8 | 9 | | 10 | 11 | 12 | 13 | 14 | 15 | | | | | |
| Row 0 | | | | 240 160 A0 | ○ 260 176 B0 | À 300 192 C0 | | 320 208 D0 | à 340 224 E0 | | 360 240 F0 | | | |
| 1 | 200 128 80 | DCS 144 90 | | I 241 161 A1 | ± 261 177 B1 | Á 301 193 C1 | Ñ 321 209 D1 | á 341 225 E1 | ñ 361 241 F1 | | | | | |
| 2 | 201 129 81 | PU1 145 91 | | ¢ 242 162 A2 | 2 262 178 B2 | Â 302 194 C2 | Ò 322 210 D2 | â 342 226 E2 | ò 362 242 F2 | | | | | |
| 3 | 202 130 82 | PU2 146 92 | | £ 243 163 A3 | 3 263 179 B3 | Ã 303 195 C3 | Ó 323 211 D3 | ã 343 227 E3 | ó 363 243 F3 | | | | | |
| 4 | 203 131 83 | NBH STS 147 93 | | | 244 164 A4 | 264 180 B4 | Ä 304 196 C4 | Ö 324 212 D4 | ä 344 228 E4 | ö 364 244 F4 | | | | |
| 5 | 204 132 84 | IND CCH 148 94 | | | ¥ 245 165 A5 | μ 265 181 B5 | Å 305 197 C5 | Õ 325 213 D5 | å 345 229 E5 | õ 365 245 F5 | | | | |
| 6 | 205 133 85 | NEL MW 149 95 | | | | 246 166 A6 | ¶ 266 182 B6 | Æ 306 198 C6 | Œ 326 214 D6 | æ 346 230 E6 | œ 366 246 F6 | | | |
| 7 | 206 134 86 | SSA SPA 150 96 | | | | § 247 167 A7 | • 267 183 B7 | Ç 307 199 C7 | Œ 327 215 D7 | ç 347 231 E7 | œ 367 247 F7 | | | |
| 8 | 207 135 87 | ESA EPA 151 97 | | | | ¤ 248 168 A8 | 270 184 B8 | È 310 200 C8 | Ø 330 216 D8 | è 350 232 E8 | ø 370 248 F8 | | | |
| 9 | 210 136 88 | HTS SOS 152 98 | | | | © 251 169 A9 | 1 271 185 B9 | É 311 201 C9 | Ù 331 217 D9 | é 351 233 E9 | ù 371 249 F9 | | | |
| 10 | 211 137 89 | | 231 153 99 | | | ¤ 252 170 AA | o 272 186 BA | Ê 312 202 CA | Ú 332 218 DA | ê 352 234 EA | ú 372 250 FA | | | |
| 11 | 212 138 8A | VTS SCI 154 9A | | | | ¤ 253 171 AB | > 273 187 BB | Ë 313 203 CB | Û 333 219 DB | ë 353 235 EB | û 373 251 FB | | | |
| 12 | 213 139 8B | PLD CSI 155 9B | | | | ¤ 254 172 AC | ¼ 274 188 BC | Ì 314 204 CC | Ü 334 220 DC | í 354 236 EC | ü 374 252 FC | | | |
| 13 | 214 140 8C | PLU ST 156 9C | | | | ¤ 255 173 AD | ½ 275 189 BD | Í 315 205 CD | Ý 335 221 DD | í 355 237 ED | ÿ 375 253 FD | | | |
| 14 | 215 141 8D | RI OSC 157 9D | | | | ¤ 256 174 AE | 276 190 BE | Î 316 206 CE | | î 356 238 EE | ï 376 254 FE | | | |
| 15 | 216 142 8E | SS2 PM 158 9E | | | | ¤ 257 175 AF | ½ 277 191 BF | Ï 317 207 CF | Þ 337 223 DF | ï 357 239 EF | | 377 255 FF | | |

DEC Supplemental Graphic Character Set

LEGEND

| | |
|------------------|-------------------------|
| GR | Column/Row |
| 12/1 | Octal Decimal Hex |
| 301 193 C1 | Á |

Designating and Invoking Character Sets



National Replacement Character sets

| Location | US ASCII | National Replacement Character Sets | | | | | | |
|----------|-------------|-------------------------------------|----------------|--------|---------------|-------------------|----------------|--------------|
| | | British | DEC Finnish | French | DEC Canada | French- German | ISO Italian | JIS Roman |
| 2/3 | # | £ | | £ | | | £ | |
| 4/0 | @ | | | à | à | § | § | |
| 5/11 | [| | Ä | ° | â | Ä | ° | |
| 5/12 | \ | | Ö | ç | ç | Ö | ç | ¥ |
| 5/13 |] | | Å | § | ê | Ü | é | |
| 5/14 | ^ | | Ü | | î | | | |
| 6/0 | ' | | é | | ô | | ù | |
| 7/11 | { | | ä | é | é | ä | à | |
| 7/12 | | | ö | ù | ù | ö | ò | |
| 7/13 | } | | å | è | è | ü | è | |
| 7/14 | ~ | | ü | trema | û | ß | ì | _ |

| Location | US | National Replacement Character Sets | | | | | | | |
|----------|----|-------------------------------------|------------------|-------------|-------------|--------------|-----------|-----------|----------------|
| | | ASCII | DEC Norw.-Danish | ISO Spanish | DEC Swedish | Norw.-Danish | DEC Dutch | DEC Swiss | DEC Portuguese |
| 2/3 | # | | | £ | | | £ | ù | |
| 4/0 | @ | Ä | | § | É | | 3/4 | à | |
| 5/11 | [| Æ | | í | Ä | Æ | ÿ | é | Ã |
| 5/12 | \ | Ø | | Ñ | Ö | Ø | 1/2 | ç | Ç |
| 5/13 |] | Å | | ¿ | Å | Å | | ê | Õ |
| 5/14 | ^ | Ü | | | Ü | | | î | |
| 5/15 | - | | | | | | | è | |
| 6/0 | ' | ä | | | é | | | ô | |
| 7/11 | { | æ | | ° | ä | æ | trema | ää | ää |
| 7/12 | | ø | | ñ | ö | ø | f | ö | ç |
| 7/13 | } | å | | ç | å | å | 1/4 | ü | õ |
| 7/14 | ~ | ü | | | ü | | ' | û | |

DEC Character Set Tables

Legal

| | GL GR | | | GL GR | | | GL GR | | | GL GR | | | GL GR | | | GL GR | |
|--------|-------|---------------------------|---|---------------------------|---------------------------|----------------------------|-------|----------------------------|---|-----------------------------|----|-----------------------------|-------|-----------------------------|-------|-------|----|
| Column | 2 | 18 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 |
| Row 0 | | | | 0 | 68 260 48 176 30 50 | | ● | 100 300 64 192 40 C0 | P | 128 320 96 208 58 D0 | = | 140 340 96 224 60 E0 | P | 160 360 112 240 70 F0 | Row 0 | | |
| 1 | I | 41 241 33 161 21 A1 | 1 | 61 261 48 177 31 B1 | A | 101 301 65 193 41 C1 | Q | 121 321 81 209 51 D1 | a | 141 341 97 225 61 E1 | q | 161 361 113 241 71 F1 | 1 | | | | |
| 2 | - | 42 242 34 162 22 A2 | 2 | 62 262 56 178 32 B2 | B | 102 302 66 194 42 C2 | R | 122 322 82 210 52 D2 | b | 142 342 98 226 62 E2 | r | 162 362 114 242 72 F2 | 2 | | | | |
| 3 | # | 43 243 36 163 23 A3 | 3 | 63 263 51 179 33 B3 | C | 103 303 67 195 43 C3 | S | 123 323 83 211 53 D3 | c | 143 343 99 227 63 E3 | s | 163 363 115 243 73 F3 | 3 | | | | |
| 4 | \$ | 44 244 35 164 24 A4 | 4 | 64 264 52 180 34 B4 | D | 104 304 68 196 44 C4 | T | 124 324 84 212 54 D4 | d | 144 344 100 228 64 E4 | t | 164 364 116 244 74 F4 | 4 | | | | |
| 5 | % | 45 245 37 165 25 A5 | 5 | 65 265 53 181 35 B5 | E | 105 305 69 197 45 C5 | U | 125 325 85 213 55 D5 | e | 145 345 101 229 65 E5 | u | 165 365 117 245 75 F5 | 5 | | | | |
| 6 | & | 46 246 38 166 26 A6 | 6 | 66 266 54 182 36 B6 | F | 106 306 70 198 46 C6 | V | 126 326 86 214 56 D6 | f | 146 346 102 230 66 E6 | v | 166 366 118 246 76 F6 | 6 | | | | |
| 7 | * | 47 247 39 167 27 A7 | 7 | 67 267 55 183 37 B7 | G | 107 307 71 199 47 C7 | W | 127 327 87 215 57 D7 | g | 147 347 103 231 67 E7 | w | 167 367 119 247 77 F7 | 7 | | | | |
| 8 | { | 50 250 40 168 28 A8 | 8 | 78 270 56 184 38 B8 | H | 110 310 72 200 48 C8 | X | 130 330 88 216 58 D8 | h | 150 350 104 232 68 E8 | x | 170 370 120 248 78 F8 | 8 | | | | |
| 9 | } | 51 251 41 169 29 A9 | 9 | 71 271 57 185 39 B9 | I | 111 311 73 201 49 C9 | Y | 131 331 89 217 59 D9 | i | 151 351 105 233 69 E9 | y | 171 371 121 249 79 F9 | 9 | | | | |
| 10 | * | 52 252 42 170 2A AA | : | 72 272 58 186 3A BA | J | 112 312 74 202 4A CA | Z | 132 332 90 218 5A DA | j | 152 352 106 234 6A EA | z | 172 372 122 250 7A FA | 10 | | | | |
| 11 | + | 53 253 43 171 2B AB | : | 73 273 59 187 3B BB | K | 113 313 75 203 4B CB | I | 133 333 91 219 5B DB | k | 153 353 107 235 6B EB | s | 173 373 123 251 7B FB | 11 | | | | |
| 12 | , | 54 254 44 172 2C AC | < | 74 274 60 188 3C BC | L | 114 314 76 204 4C CC | ® | 134 334 92 220 5C DC | l | 154 354 108 236 6C EC | ¶ | 174 374 124 252 7C FC | 12 | | | | |
| 13 | - | 55 255 45 173 2D AD | ■ | 75 275 61 189 3D BD | M | 115 315 77 205 4D CD |] | 135 335 93 221 5D DD | m | 155 355 109 237 6D ED | † | 175 375 125 253 7D FD | 13 | | | | |
| 14 | . | 56 256 46 174 2E AE | > | 76 276 62 190 3E BE | N | 116 316 78 206 4E CE | © | 136 336 94 222 5E DE | n | 156 356 110 238 6E EE | ™ | 176 376 126 254 7E FE | 14 | | | | |
| 15 | / | 57 257 47 175 2F AF | ? | 77 277 63 191 3F BF | O | 117 317 79 207 4F CF | - | 137 337 95 223 5F DF | o | 157 357 111 239 6F EF | | | 15 | | | | |

LEGEND

| GL | GR |
|-----|------|
| 4/1 | 12/1 |
| 101 | 301 |
| 65 | 183 |
| 41 | C1 |

Column/Row
Octal
Decimal
Hex

NILO-009962

JIS Katakana Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | | | | | |
|--------|-----------|----------------|----|----------------|------------------|---|-----------------|------------------|---|-----------------|------------------|---|-----------------|------------------|--|------------------|------------------|------------------|------------------|----|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | | | | | |
| Row 0 | | | — | 60 48 30 | 260 176 80 | 夕 | 100 84 46 | 300 192 C0 | 一 | 120 96 80 | 320 224 E0 | | 140 96 80 | 340 224 E0 | | 160 112 70 | 360 240 F0 | Row 0 | | |
| 1 | • | 41 39 21 | A1 | 41 49 31 | 241 177 B1 | ア | 61 65 41 | 261 193 C1 | 子 | 101 88 42 | 301 194 C2 | ム | 121 91 51 | 321 209 D1 | | 141 97 61 | 341 226 E1 | 161 113 71 | 361 241 F1 | 1 |
| 2 | フ | 42 34 22 | A2 | 42 50 32 | 242 176 B2 | イ | 62 68 42 | 262 194 C2 | ツ | 102 88 42 | 302 194 C2 | メ | 122 92 52 | 322 210 D2 | | 142 96 62 | 342 226 E2 | 162 114 72 | 362 242 F2 | 2 |
| 3 | 」 | 43 35 23 | A3 | 43 51 33 | 243 179 B3 | ウ | 63 67 43 | 263 195 C3 | 丁 | 103 87 43 | 303 195 C3 | 干 | 123 93 53 | 323 211 D3 | | 143 98 63 | 343 227 E3 | 163 115 73 | 363 243 F3 | 3 |
| 4 | , | 44 36 24 | A4 | 44 52 34 | 244 180 B4 | エ | 64 52 44 | 264 196 C4 | ト | 104 88 44 | 304 196 C4 | ヤ | 124 94 54 | 324 212 D4 | | 144 100 64 | 344 228 E4 | 164 116 74 | 364 244 F4 | 4 |
| 5 | . | 45 37 25 | A5 | 45 53 35 | 245 181 B5 | オ | 65 63 45 | 265 197 C5 | ナ | 105 88 45 | 305 197 C5 | ニ | 125 95 55 | 325 213 D5 | | 145 101 65 | 345 229 E5 | 165 117 75 | 365 245 F5 | 5 |
| 6 | ヲ | 46 38 26 | A6 | 46 54 36 | 246 182 B6 | カ | 66 54 46 | 266 198 C6 | 二 | 106 70 46 | 306 198 C6 | ヨ | 126 86 56 | 326 214 D6 | | 146 102 66 | 346 230 E6 | 166 118 76 | 366 246 F6 | 6 |
| 7 | ア | 47 39 27 | A7 | 47 55 37 | 247 183 B7 | キ | 67 55 47 | 267 199 C7 | ヌ | 107 71 47 | 307 199 C7 | ラ | 127 87 57 | 327 215 D7 | | 147 103 67 | 347 231 E7 | 167 119 77 | 367 247 F7 | 7 |
| 8 | イ | 50 40 26 | A8 | 50 56 36 | 250 184 B8 | ク | 70 56 46 | 270 184 C8 | ネ | 110 72 46 | 310 200 C8 | リ | 130 88 56 | 330 216 D8 | | 150 104 68 | 350 232 E8 | 170 120 76 | 370 248 F8 | 8 |
| 9 | ウ | 51 41 29 | A9 | 51 57 39 | 251 185 B9 | ケ | 71 57 49 | 271 185 C9 | ノ | 111 73 49 | 311 201 C9 | ル | 131 89 59 | 331 217 D9 | | 151 105 69 | 351 233 E9 | 171 121 79 | 371 249 F9 | 9 |
| 10 | エ | 52 42 2A | AA | 52 58 3A | 252 186 BA | コ | 72 58 4A | 272 186 CA | ハ | 112 74 4A | 312 202 CA | レ | 132 90 5A | 332 218 DA | | 152 106 6A | 352 234 EA | 172 122 7A | 372 250 FA | 10 |
| 11 | オ | 53 43 2B | AB | 53 59 38 | 253 187 BB | サ | 73 59 4B | 273 187 BB | ヒ | 113 75 4B | 313 203 CB | ロ | 133 91 5B | 333 219 DB | | 153 107 6B | 353 235 EB | 173 123 7B | 373 251 FB | 11 |
| 12 | ヤ | 54 44 2C | AC | 54 60 3C | 254 188 BC | シ | 74 60 4C | 274 188 BC | フ | 114 76 4C | 314 204 CC | ワ | 134 92 5C | 334 220 DC | | 154 108 6C | 354 236 EC | 174 124 7C | 374 252 FC | 12 |
| 13 | ニ | 55 45 2D | AD | 55 61 3D | 255 189 BD | ヌ | 75 61 4D | 275 189 BD | ヘ | 115 77 4D | 315 205 CD | ン | 135 93 5D | 335 221 DD | | 155 109 6D | 355 237 ED | 175 125 7D | 375 253 FD | 13 |
| 14 | ヨ | 56 46 2E | AE | 56 62 3E | 256 190 BE | セ | 76 62 4E | 276 190 BE | ホ | 116 78 4E | 316 206 CE | “ | 136 94 5E | 336 222 DE | | 156 110 6E | 356 238 EE | 176 126 7E | 376 254 FE | 14 |
| 15 | ツ | 57 47 2F | AF | 57 63 3F | 257 191 BF | ソ | 77 63 4F | 277 191 BF | マ | 117 79 4F | 317 207 CF | 。 | 137 95 5F | 337 223 DF | | 157 111 6F | 357 239 EF | | | 15 |

LEGEND

| GL | GR |
|-----------|-----------|
| 4/1 | 12/1 |

Column/Row
Octal
Decimal
Hex

DEC Special Graphics Character Set

| | QL | QR | | QL | QR | | QL | QR | | QL | QR | | QL | QR | | | | |
|--------|------------------------------|-----------------------------|---------------------------|------------------------------|------------------------------|------------------------------|----------------------------|-------------------------------|-------------------------------|---------------------------------|-------------------------------|---------------------------------|---------------------------------|-----------|--|----------|-----------|--|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 | |
| Row 0 | | | | 0 | 60 200 48 176 30 80 | | ● 100 300 40 192 C0 | | P 120 320 50 208 50 D0 | | ◆ 140 340 96 224 80 E0 | | — 160 360 — 112 240 70 F0 | Flow 0 | | | | |
| 1 | I 41 241 33 181 21 A1 | 1 61 261 40 177 31 B1 | | A 101 301 85 183 41 C1 | | Q 121 321 91 209 51 D1 | | | | 141 341 97 225 61 E1 | | — 161 361 — 113 241 71 F1 | 1 | | | | | |
| 2 | ■ 42 242 34 162 22 A2 | 2 62 262 50 178 32 B2 | | B 102 302 86 194 42 C2 | | R 122 322 92 210 52 D2 | | H 142 342 98 226 82 E2 | | — 162 362 — 114 242 72 F2 | 2 | | | | | | | |
| 3 | # 43 243 35 163 23 A3 | 3 63 263 51 179 33 B3 | | C 103 303 87 195 43 C3 | | S 123 323 93 211 53 D3 | | F 143 343 99 227 63 E3 | | — 163 363 — 115 243 73 F3 | 3 | | | | | | | |
| 4 | \$ 44 244 36 164 24 A4 | 4 64 264 52 190 34 B4 | | D 104 304 88 196 44 C4 | | T 124 324 94 212 54 D4 | | C 144 344 100 228 84 E4 | | — 164 364 — 116 244 74 F4 | 4 | | | | | | | |
| 5 | % 45 245 37 165 25 A5 | 5 65 265 53 181 35 B5 | | E 105 305 89 197 45 C5 | | U 125 325 95 213 55 D5 | | L 145 345 101 229 85 E5 | | — 165 365 — 117 245 75 F5 | 5 | | | | | | | |
| 6 | & 46 246 38 166 26 A6 | 6 66 266 54 182 36 B6 | | F 106 306 70 198 46 C6 | | V 126 326 86 214 56 D6 | | O 146 346 102 230 86 E6 | | — 166 366 — 118 246 76 F6 | 6 | | | | | | | |
| 7 | ' 47 247 38 167 27 A7 | 7 67 267 55 183 37 B7 | | G 107 307 71 199 47 C7 | | W 127 327 87 215 57 D7 | | ± 147 347 103 231 67 E7 | | T 167 367 119 247 77 F7 | 7 | | | | | | | |
| 8 | (50 250 40 168 28 A8 | 8 70 270 56 184 38 B8 | | H 110 310 72 200 48 C8 | | X 130 330 88 216 58 D8 | | N 150 350 104 232 68 E8 | | — 170 370 120 248 78 F8 | 8 | | | | | | | |
| 9 |) 51 251 41 169 29 A9 | 9 71 271 57 185 39 B9 | | I 111 311 73 201 49 C9 | | Y 131 331 89 217 59 D9 | | V 151 351 105 233 69 E9 | | ≤ 171 371 121 249 79 F9 | 9 | | | | | | | |
| 10 | * 52 252 42 170 2A AA | : | 72 272 58 186 3A BA | J 112 312 74 202 4A CA | | Z 132 332 90 218 5A DA | | — 152 352 106 234 8A EA | | ≥ 172 372 122 250 7A FA | 10 | | | | | | | |
| 11 | + 53 253 43 171 2B AB | : | 73 273 59 187 3B BB | K 113 313 75 203 4B CB | [| 133 333 91 219 5B DB | | — 153 353 107 235 6B EB | | π 173 373 123 251 7B FB | 11 | | | | | | | |
| 12 | , 54 254 44 172 2C AC | < | 74 274 60 188 3C BC | L 114 314 76 204 4C CC | \ | 134 334 92 220 5C DC | | Γ 154 354 108 236 6C EC | | ≠ 174 374 124 252 7C FC | 12 | | | | | | | |
| 13 | - 55 255 45 173 2D AD | = | 75 275 61 189 3D BD | M 115 315 77 205 4D CD |] | 135 335 93 221 5D DD | | — 155 355 109 237 6D ED | | £ 175 375 125 253 7D FD | 13 | | | | | | | |
| 14 | . | 56 256 46 174 2E AE | > | 76 276 62 190 3E BE | N 116 316 78 206 4E CE | ^ | 136 336 94 222 5E DE | | — 156 356 110 238 6E EE | | · 176 376 126 254 7E FE | 14 | | | | | | |
| 15 | / | 57 257 47 175 2F AF | ? | 77 277 63 191 3F BF | O 117 317 79 207 4F CF | | 137 337 95 223 5F DF | | — 157 357 111 239 6F EF | | | 15 | | | | | | |

LEGEND

| | GL | GR |
|--|-----------|-----------|
| | 4/1 12/1 | |

Column/Row
Octal
Decimal
Hex

DEC Technical Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR |
|--------|-----------|-----------|--|-----------|-----------|--|-----------|-----------|----------|-----------|-----------|--|-----------|-----------|--|-----------|-----------|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 |
| Row 0 | | | | 80 | 260 | | 100 | 300 | | 120 | 320 | | 140 | 340 | | 160 | 360 |
| 1 | 41 | 241 | | 48 | 176 | | 84 | 192 | Π | 80 | 208 | | 96 | 224 | | 112 | 240 |
| 2 | 33 | 161 | | 21 | A1 | | 49 | 177 | C0 | 50 | D0 | | 60 | E0 | | 70 | FC |
| 3 | 42 | 242 | | 34 | 162 | | 61 | 261 | α | 101 | 301 | | 141 | 341 | | 161 | 361 |
| 4 | 35 | 163 | | 22 | A2 | | 31 | B1 | Ψ | 85 | 193 | | 97 | 225 | | 113 | 241 |
| 5 | 43 | 243 | | 35 | 163 | | 50 | 176 | OO | 41 | C1 | | 61 | E1 | | 71 | F1 |
| 6 | 38 | 163 | | 23 | A3 | | 56 | 176 | CO | 102 | 302 | | 142 | 342 | | 162 | 362 |
| 7 | 44 | 244 | | 36 | 164 | | 34 | B4 | ÷ | 103 | 303 | | 122 | 322 | | 114 | 242 |
| 8 | 37 | 165 | | 24 | A4 | | 52 | 160 | △ | 86 | 196 | | 82 | 210 | | 72 | F2 |
| 9 | 45 | 245 | | 37 | 165 | | 53 | 181 | ▽ | 104 | 304 | | 123 | 323 | | 163 | 363 |
| 10 | 37 | 165 | | 25 | A5 | | 56 | B5 | 44 | 87 | 197 | | 83 | 211 | | 115 | 243 |
| 11 | 46 | 246 | | 38 | 166 | | 54 | 182 | Φ | 105 | 305 | | 125 | 325 | | 73 | F3 |
| 12 | 36 | 166 | | 26 | A6 | | 56 | B6 | 46 | 70 | 198 | | 84 | 212 | | 164 | 364 |
| 13 | 47 | 247 | | 39 | 167 | | 56 | 183 | √ | 106 | 306 | | 126 | 326 | | 116 | 244 |
| 14 | 39 | 167 | | 27 | A7 | | 57 | B7 | 47 | 71 | 199 | | 85 | 213 | | 74 | F4 |
| 15 | 47 | 247 | | 39 | 167 | | 56 | 183 | Γ | 107 | 307 | | 127 | 327 | | 165 | 365 |
| 16 | 50 | 250 | | 40 | 168 | | 56 | 184 | ~ | 70 | 270 | | 86 | 214 | | 117 | 245 |
| 17 | 40 | 168 | | 26 | A8 | | 56 | B8 | 48 | 72 | 200 | | 87 | 215 | | 75 | F5 |
| 18 | 51 | 261 | | 41 | 169 | | 57 | 185 | ≈ | 111 | 311 | | 128 | 328 | | 166 | 366 |
| 19 | 41 | 169 | | 29 | A9 | | 59 | B9 | 49 | 73 | 201 | | 88 | 216 | | 118 | 246 |
| 20 | 52 | 262 | | 42 | 170 | | 56 | 186 | ⊕ | 112 | 312 | | 130 | 330 | | 76 | F6 |
| 21 | 42 | 170 | | 2A | AA | | 56 | BA | 4A | 74 | 202 | | 89 | 217 | | 167 | 367 |
| 22 | 53 | 263 | | 43 | 171 | | 58 | 187 | × | 113 | 313 | | 131 | 331 | | 119 | 247 |
| 23 | 43 | 171 | | 2B | AB | | 58 | BB | 4B | 75 | 203 | | 90 | 218 | | 77 | F7 |
| 24 | 54 | 264 | | 44 | 172 | | 56 | 188 | Λ | 114 | 314 | | 133 | 333 | | 170 | 370 |
| 25 | 44 | 172 | | 2C | AC | | 56 | BC | 4C | 76 | 204 | | 91 | 219 | | 120 | 248 |
| 26 | 55 | 265 | | 45 | 173 | | 57 | 189 | ⇒ | 115 | 315 | | 135 | 335 | | 171 | 371 |
| 27 | 45 | 173 | | 2D | AD | | 57 | BD | 4D | 77 | 205 | | 92 | 221 | | 121 | 249 |
| 28 | 56 | 266 | | 46 | 174 | | 58 | 190 | ↔ | 116 | 316 | | 136 | 336 | | 172 | 372 |
| 29 | 46 | 174 | | 2E | AE | | 58 | BE | 4E | 78 | 206 | | 93 | 222 | | 122 | 250 |
| 30 | 57 | 267 | | 47 | 175 | | 59 | 191 | ≡ | 117 | 317 | | 137 | 337 | | 173 | 373 |
| 31 | 47 | 175 | | 2F | AF | | 59 | BF | 4F | 79 | 207 | | 94 | 223 | | 123 | 251 |
| 32 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 100 | 300 | | 138 | 338 | | 174 | 374 |
| 33 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 101 | 301 | | 95 | 224 | | 124 | 252 |
| 34 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 102 | 302 | | 139 | 339 | | 175 | 375 |
| 35 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 103 | 303 | | 96 | 225 | | 125 | 253 |
| 36 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 104 | 304 | | 140 | 340 | | 176 | 376 |
| 37 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 105 | 305 | | 97 | 226 | | 126 | 254 |
| 38 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 106 | 306 | | 141 | 341 | | 177 | 377 |
| 39 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 107 | 307 | | 98 | 227 | | 127 | 255 |
| 40 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 108 | 308 | | 142 | 342 | | 178 | 378 |
| 41 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 109 | 309 | | 99 | 228 | | 128 | 256 |
| 42 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 110 | 310 | | 143 | 343 | | 179 | 379 |
| 43 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 111 | 311 | | 100 | 230 | | 129 | 257 |
| 44 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 112 | 312 | | 101 | 231 | | 130 | 258 |
| 45 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 113 | 313 | | 102 | 232 | | 131 | 259 |
| 46 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 114 | 314 | | 103 | 233 | | 132 | 260 |
| 47 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 115 | 315 | | 104 | 234 | | 133 | 261 |
| 48 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 116 | 316 | | 105 | 235 | | 134 | 262 |
| 49 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 117 | 317 | | 106 | 236 | | 135 | 263 |
| 50 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 118 | 318 | | 107 | 237 | | 136 | 264 |
| 51 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 119 | 319 | | 108 | 238 | | 137 | 265 |
| 52 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 120 | 320 | | 109 | 239 | | 138 | 266 |
| 53 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 121 | 321 | | 110 | 240 | | 139 | 267 |
| 54 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 122 | 322 | | 111 | 241 | | 140 | 268 |
| 55 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 123 | 323 | | 112 | 242 | | 141 | 269 |
| 56 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 124 | 324 | | 113 | 243 | | 142 | 270 |
| 57 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 125 | 325 | | 114 | 244 | | 143 | 271 |
| 58 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 126 | 326 | | 115 | 245 | | 144 | 272 |
| 59 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 127 | 327 | | 116 | 246 | | 145 | 273 |
| 60 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 128 | 328 | | 117 | 247 | | 146 | 274 |
| 61 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 129 | 329 | | 118 | 248 | | 147 | 275 |
| 62 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 130 | 330 | | 119 | 249 | | 148 | 276 |
| 63 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 131 | 331 | | 120 | 250 | | 149 | 277 |
| 64 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 132 | 332 | | 121 | 251 | | 150 | 278 |
| 65 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 133 | 333 | | 122 | 252 | | 151 | 279 |
| 66 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 134 | 334 | | 123 | 253 | | 152 | 280 |
| 67 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 135 | 335 | | 124 | 254 | | 153 | 281 |
| 68 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 136 | 336 | | 125 | 255 | | 154 | 282 |
| 69 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 137 | 337 | | 126 | 256 | | 155 | 283 |
| 70 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 138 | 338 | | 127 | 257 | | 156 | 284 |
| 71 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 139 | 339 | | 128 | 258 | | 157 | 285 |
| 72 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 140 | 340 | | 129 | 259 | | 158 | 286 |
| 73 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 141 | 341 | | 130 | 260 | | 159 | 287 |
| 74 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 142 | 342 | | 131 | 261 | | 160 | 288 |
| 75 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 143 | 343 | | 132 | 262 | | 161 | 289 |
| 76 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 144 | 344 | | 133 | 263 | | 162 | 290 |
| 77 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 145 | 345 | | 134 | 264 | | 163 | 291 |
| 78 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 146 | 346 | | 135 | 265 | | 164 | 292 |
| 79 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 147 | 347 | | 136 | 266 | | 165 | 293 |
| 80 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 148 | 348 | | 137 | 267 | | 166 | 294 |
| 81 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 149 | 349 | | 138 | 268 | | 167 | 295 |
| 82 | 57 | 267 | | 47 | 175 | | 59 | BF | CF | 150 | 350 | | 139 | 269 | | 168 | 296 |
| 83 | 47 | 175 | | 2F | AF | | 59 | BF | CF | 151 | 351 | | 140 | 270 | | 169 | 297 |
| 84 | 57 | 267</ | | | | | | | | | | | | | | | |

ISO Latin-1 Supplemental Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | | |
|--------|-------------|------------------|---|------------------|-----------|------------------|-----------|------------------|---|------------------|-----------|------------------|-----------|-----------|--|----------|-----------|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 |
| Row 0 | NBSP | 240 160 A0 | ° | 260 176 B0 | À | 300 192 C0 | Ð | 320 208 D0 | à | 340 224 E0 | þ | 360 240 F0 | Row 0 | | | | |
| 1 | I | 241 161 A1 | ± | 261 177 B1 | Á | 301 193 C1 | Ñ | 321 209 D1 | í | 341 225 E1 | ñ | 361 241 F1 | 1 | | | | |
| 2 | ¢ | 242 162 A2 | ² | 262 176 B2 | Â | 302 194 C2 | Ó | 322 210 D2 | â | 342 226 E2 | ò | 362 242 F2 | 2 | | | | |
| 3 | £ | 243 163 A3 | ³ | 263 176 B3 | Ã | 303 195 C3 | Ó | 323 211 D3 | ã | 343 227 E3 | ó | 363 243 F3 | 3 | | | | |
| 4 | ¤ | 244 164 A4 | ' | 264 160 B4 | Ä | 304 196 C4 | Ö | 324 212 D4 | ä | 344 228 E4 | ö | 364 244 F4 | 4 | | | | |
| 5 | ¥ | 245 165 A5 | μ | 265 181 B5 | Å | 305 197 C5 | Ö | 325 213 D5 | ö | 345 229 E5 | õ | 365 245 F5 | 5 | | | | |
| 6 | - | 246 166 A6 | ¶ | 266 182 B6 | Æ | 306 198 C6 | Ö | 326 214 D6 | œ | 346 230 E6 | ö | 366 246 F6 | 6 | | | | |
| 7 | S | 247 167 A7 | • | 267 183 B7 | Ç | 307 199 C7 | × | 327 215 D7 | ç | 347 231 E7 | ÷ | 367 247 F7 | 7 | | | | |
| 8 | " | 250 168 A8 | , | 270 184 B8 | ‘ | 310 200 C8 | Ø | 330 216 D8 | è | 350 232 E8 | ø | 370 248 F8 | 8 | | | | |
| 9 | © | 251 169 A9 | 1 | 271 185 B9 | ‘ | 311 201 C9 | Ù | 331 217 D9 | é | 351 233 E9 | ú | 371 249 F9 | 9 | | | | |
| 10 | ™ | 252 170 AA | ® | 272 186 BA | Ê | 312 202 CA | Ú | 332 218 DA | ê | 352 234 EA | ú | 372 250 FA | 10 | | | | |
| 11 | ¤ | 253 171 AB | ¤ | 273 187 BB | Ë | 313 203 CB | Ù | 333 219 DB | ë | 353 235 EB | û | 373 251 FB | 11 | | | | |
| 12 | ™ | 254 172 AC | ™ | 274 188 BC | Ì | 314 204 CC | Ü | 334 220 DC | í | 354 236 EC | ü | 374 252 FC | 12 | | | | |
| 13 | - | 255 173 AD | × | 275 189 BD | Í | 315 205 CD | Ý | 335 221 DD | í | 355 237 ED | ý | 375 253 FD | 13 | | | | |
| 14 | ® | 256 174 AE | ® | 276 190 BE | Î | 316 206 CE | Þ | 336 222 DE | í | 356 238 EE | þ | 376 254 FE | 14 | | | | |
| 15 | - | 257 175 AF | × | 277 191 BF | Ï | 317 207 CF | Þ | 337 223 DF | ï | 357 239 EF | ÿ | 377 255 FF | 15 | | | | |

LEGEND

| GR |
|------------|
| 12/1 |
| Column/Row |
| Octal |
| Decimal |
| Hex |

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MLO-004000

DEC Hebrew Supplemental Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | |
|--------|-----------|----------------|------------------|----------------|------------------|------------------|-----------------|------------------|--|-----------------|------------------|---|------------------|------------------|---|------------------|------------------|-------|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 | |
| Row 0 | | | ◦ | 60 48 30 | 260 176 B0 | | 100 64 40 | 300 192 C0 | | 120 80 50 | 320 208 D0 | נ | 140 96 60 | 340 224 E0 | ג | 160 112 70 | 360 240 F0 | Row 0 |
| 1 | י | 41 33 21 | 241 161 A1 | ± | 61 49 31 | 261 177 B1 | 101 65 41 | 301 193 C1 | | 121 81 51 | 321 209 D1 | ג | 141 97 61 | 341 225 E1 | ו | 161 113 71 | 361 241 F1 | 1 |
| 2 | כ | 42 34 22 | 242 162 A2 | 2 | 62 50 32 | 262 178 B2 | 102 66 42 | 302 194 C2 | | 122 82 52 | 322 210 D2 | ל | 142 98 62 | 342 226 E2 | ל | 162 114 72 | 362 242 F2 | 2 |
| 3 | £ | 43 35 23 | 243 163 A3 | 3 | 63 51 33 | 263 179 B3 | 103 67 43 | 303 195 C3 | | 123 83 53 | 323 211 D3 | ת | 143 99 63 | 343 227 E3 | נ | 163 115 73 | 363 243 F3 | 3 |
| 4 | | 44 36 24 | 244 164 A4 | | 64 52 34 | 264 180 B4 | 104 68 44 | 304 196 C4 | | 124 84 54 | 324 212 D4 | ם | 144 100 64 | 344 228 E4 | ט | 164 116 74 | 364 244 F4 | 4 |
| 5 | ¥ | 45 37 25 | 245 165 A5 | μ | 65 53 35 | 265 181 B5 | 105 69 45 | 305 197 C5 | | 125 85 55 | 325 213 D5 | ר | 145 101 65 | 345 229 E5 | ׮ | 165 117 75 | 365 245 F5 | 5 |
| 6 | | 46 38 26 | 246 166 A6 | ¶ | 66 54 36 | 266 182 B6 | 106 70 46 | 306 198 C6 | | 126 86 56 | 326 214 D6 | ׮ | 146 102 66 | 346 230 E6 | ׮ | 166 118 76 | 366 246 F6 | 6 |
| 7 | ₪ | 47 39 27 | 247 167 A7 | • | 67 55 37 | 267 183 B7 | 107 71 47 | 307 199 C7 | | 127 87 57 | 327 215 D7 | ׮ | 147 103 67 | 347 231 E7 | ׮ | 167 119 77 | 367 247 F7 | 7 |
| 8 | ¤ | 50 40 28 | 250 168 A8 | | 70 56 38 | 270 184 B8 | 110 72 48 | 310 200 C8 | | 130 88 58 | 330 216 D8 | ׮ | 150 104 68 | 350 232 E8 | ׮ | 170 120 78 | 370 248 F8 | 8 |
| 9 | © | 51 41 29 | 251 169 A9 | 1 | 71 57 39 | 271 185 B9 | 111 73 49 | 311 201 C9 | | 131 89 59 | 331 217 D9 | ׮ | 151 105 69 | 351 233 E9 | ׮ | 171 121 79 | 371 249 F9 | 9 |
| 10 | ¤ | 52 42 2A | 252 170 AA | ◦ | 72 58 3A | 272 186 BA | 112 74 4A | 312 202 CA | | 132 90 5A | 332 218 DA | ׮ | 152 106 6A | 352 234 EA | ׮ | 172 122 7A | 372 250 FA | 10 |
| 11 | « | 53 43 2B | 253 171 AB | » | 73 59 3B | 273 187 BB | 113 75 4B | 313 203 CB | | 133 91 5B | 333 219 DB | ׮ | 153 107 6B | 353 235 EB | | 173 123 7B | 373 251 FB | 11 |
| 12 | | 54 44 2C | 254 172 AC | ¼ | 74 60 3C | 274 188 BC | 114 76 4C | 314 204 CC | | 134 92 5C | 334 220 DC | ׮ | 154 108 6C | 354 236 EC | | 174 124 7C | 374 252 FC | 12 |
| 13 | | 55 45 2D | 255 173 AD | ½ | 75 61 3D | 275 189 BD | 115 77 4D | 315 205 CD | | 135 93 5D | 335 221 DD | ׮ | 155 109 6D | 355 237 ED | | 175 125 7D | 375 253 FD | 13 |
| 14 | | 56 46 2E | 256 174 AE | | 76 62 3E | 276 190 BE | 116 78 4E | 316 206 CE | | 136 94 5E | 336 222 DE | ׮ | 156 110 6E | 356 238 EE | | 176 126 7E | 376 254 FE | 14 |
| 15 | | 57 47 2F | 257 175 AF | ૧ | 77 63 3F | 277 191 BF | 117 79 4F | 317 207 CF | | 137 95 5F | 337 223 DF | ׮ | 157 111 6F | 357 239 EF | | | | 15 |

LEGEND

| GL | GR |
|-----------------|------------------|
| 4/1 | 12/1 |
| 101 65 41 | 301 193 C1 |

Column/Row
Octal
Decimal
Hex

MLO-004002

ISO Latin-Hebrew Supplemental Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR |
|------------|------|------------------|----|------------------|----|--|------------------|----|--|------------------|----|---|------------------|----|---|------------------|------------|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 |
| Row 0 0 | NBSP | 240 160 A0 | * | 260 176 B0 | | | 300 192 C0 | | | 320 208 D0 | | 2 | 340 224 E0 | | ג | 360 240 F0 | Row 0 0 |
| 1 | | 241 161 A1 | ± | 261 177 B1 | | | 301 193 C1 | | | 321 209 D1 | | 2 | 341 225 E1 | | ד | 361 241 F1 | 1 |
| 2 | ¢ | 242 162 A2 | 2 | 262 178 B2 | | | 302 194 C2 | | | 322 210 D2 | | 2 | 342 226 E2 | | ל | 362 242 F2 | 2 |
| 3 | £ | 243 163 A3 | 3 | 263 179 B3 | | | 303 195 C3 | | | 323 211 D3 | | 2 | 343 227 E3 | | נ | 363 243 F3 | 3 |
| 4 | ¤ | 244 164 A4 | * | 264 180 B4 | | | 304 196 C4 | | | 324 212 D4 | | 2 | 344 228 E4 | | ת | 364 244 F4 | 4 |
| 5 | ¥ | 245 165 A5 | ll | 265 181 B5 | | | 305 197 C5 | | | 325 213 D5 | | 2 | 345 229 E5 | | ר | 365 245 F5 | 5 |
| 6 | - | 246 166 A6 | ¶ | 266 182 B6 | | | 306 198 C6 | | | 326 214 D6 | | 2 | 346 230 E6 | | ל | 366 246 F6 | 6 |
| 7 | \$ | 247 167 A7 | * | 267 183 B7 | | | 307 199 C7 | | | 327 215 D7 | | 2 | 347 231 E7 | | כ | 367 247 F7 | 7 |
| 8 | -- | 250 168 A8 | : | 270 184 B8 | | | 310 200 C8 | | | 330 216 D8 | | 2 | 350 232 E8 | | ב | 368 248 F8 | 8 |
| 9 | © | 251 169 A9 | 1 | 271 185 B9 | | | 311 201 C9 | | | 331 217 D9 | | 2 | 351 233 E9 | | ש | 369 249 F9 | 9 |
| 10 | × | 252 170 AA | ÷ | 272 186 BA | | | 312 202 CA | | | 332 218 DA | | 2 | 352 234 EA | | ת | 370 250 FA | 10 |
| 11 | « | 253 171 AB | » | 273 187 BB | | | 313 203 CB | | | 333 219 DB | | 2 | 353 235 EB | | | 371 251 FB | 11 |
| 12 | — | 254 172 AC | X | 274 188 BC | | | 314 204 CC | | | 334 220 DC | | 2 | 354 236 EC | | | 372 252 FC | 12 |
| 13 | - | 255 173 AD | X | 275 189 BD | | | 315 205 CD | | | 335 221 DD | | 2 | 355 237 ED | | | 373 253 FD | 13 |
| 14 | ® | 256 174 AE | X | 276 190 BE | | | 316 206 CE | | | 336 222 DE | | 2 | 356 238 EE | | | 374 254 FE | 14 |
| 15 | - | 257 175 AF | | 277 191 BF | | | 317 207 CF | = | | 337 223 DF | | 2 | 357 239 EF | | | 375 255 FF | 15 |

LEGEND

| GR | Column/Row |
|------------------|-------------------------|
| 12/1 | |
| 361 193 C1 | Octal Decimal Hex |

MLO-004003

DEC 7-Bit Turkish Character Set

| | GL GR | | GL GR | | GL GR | | GL GR | | GL GR | | GL GR | | GL GR | | | | | | |
|--------|-------|----------------|------------------|----------------|------------------|------------------|-----------------|------------------|------------------|-----------------|------------------|------------------|-----------------|------------------|------------------|------------------|------------------|------------------|----|
| Column | 2 | 10 | 3 | 11 | 4 | 12 | 5 | 13 | 6 | 14 | 7 | 15 | | | | | | | |
| Row 0 | | | 0 | 60 48 30 | 260 176 B0 | İ | 100 64 40 | 300 192 C0 | P | 120 80 50 | 320 208 D0 | Ğ | 140 96 60 | 340 224 E0 | p | 160 112 70 | 360 240 F0 | Row 0 | |
| 1 | I | 41 33 21 | 241 161 A1 | 1 | 61 49 31 | 261 177 B1 | A | 101 65 41 | 301 193 C1 | Q | 121 81 51 | 321 209 D1 | a | 141 97 61 | 341 225 E1 | q | 161 113 71 | 361 241 F1 | 1 |
| 2 | " | 42 34 22 | 242 162 A2 | 2 | 62 50 32 | 262 178 B2 | B | 102 66 42 | 302 194 C2 | R | 122 82 52 | 322 210 D2 | b | 142 98 62 | 342 226 E2 | r | 162 114 72 | 362 242 F2 | 2 |
| 3 | # | 43 35 23 | 243 163 A3 | 3 | 63 51 33 | 263 179 B3 | C | 103 67 43 | 303 195 C3 | S | 123 83 53 | 323 211 D3 | c | 143 99 63 | 343 227 E3 | s | 163 115 73 | 363 243 F3 | 3 |
| 4 | \$ | 44 36 24 | 244 164 A4 | 4 | 64 52 34 | 264 180 B4 | D | 104 68 44 | 304 198 C4 | T | 124 84 54 | 324 212 D4 | d | 144 100 64 | 344 228 E4 | t | 164 116 74 | 364 244 F4 | 4 |
| 5 | % | 45 37 25 | 245 165 A5 | 5 | 65 53 35 | 265 181 B5 | E | 105 69 45 | 305 197 C5 | U | 125 85 55 | 325 213 D5 | e | 145 101 65 | 345 229 E5 | u | 165 117 75 | 365 245 F5 | 5 |
| 6 | g | 46 38 26 | 246 166 A6 | 6 | 66 54 36 | 266 182 B6 | F | 106 70 46 | 306 198 C6 | V | 126 86 56 | 326 214 D6 | f | 146 102 66 | 346 230 E6 | v | 166 118 76 | 366 246 F6 | 6 |
| 7 | ' | 47 39 27 | 247 167 A7 | 7 | 67 55 37 | 267 183 B7 | G | 107 71 47 | 307 199 C7 | W | 127 87 57 | 327 215 D7 | g | 147 103 67 | 347 231 E7 | w | 167 119 77 | 367 247 F7 | 7 |
| 8 | (| 50 40 28 | 250 168 A8 | 8 | 70 56 38 | 270 184 B8 | H | 110 72 48 | 310 200 C8 | X | 130 88 58 | 330 216 D8 | h | 150 104 68 | 350 232 E8 | x | 170 120 78 | 370 248 F8 | 8 |
| 9 |) | 51 41 29 | 251 169 A9 | 9 | 71 57 39 | 271 185 B9 | I | 111 73 49 | 311 201 C9 | Y | 131 89 59 | 331 217 D9 | i | 151 105 69 | 351 233 E9 | y | 171 121 79 | 371 249 F9 | 9 |
| 10 | * | 52 42 2A | 252 170 AA | : | 72 58 3A | 272 186 BA | J | 112 74 4A | 312 202 CA | Z | 132 90 5A | 332 218 DA | j | 152 106 6A | 352 234 EA | z | 172 122 7A | 372 250 FA | 10 |
| 11 | + | 53 43 2B | 253 171 AB | : | 73 59 3B | 273 187 BB | K | 113 75 4B | 313 203 CB | Ş | 133 91 5B | 333 219 DB | k | 153 107 6B | 353 235 EB | ş | 173 123 7B | 373 251 FB | 11 |
| 12 | , | 54 44 2C | 254 172 AC | < | 74 60 3C | 274 188 BC | L | 114 76 4C | 314 204 CC | Ö | 134 92 5C | 334 220 DC | l | 154 108 6C | 354 236 EC | ö | 174 124 7C | 374 252 FC | 12 |
| 13 | - | 55 45 2D | 255 173 AD | = | 75 61 3D | 275 189 BD | M | 115 77 4D | 315 205 CD | Ç | 135 93 5D | 335 221 DD | m | 155 109 6D | 355 237 ED | ç | 175 125 7D | 375 253 FD | 13 |
| 14 | . | 56 46 2E | 256 174 AE | > | 76 62 3E | 276 190 BE | N | 116 78 4E | 316 206 CE | Ü | 136 94 5E | 336 222 DE | n | 156 110 6E | 356 238 EE | ü | 176 126 7E | 376 254 FE | 14 |
| 15 | / | 57 47 2F | 257 175 AF | ? | 77 63 3F | 277 191 BF | O | 117 79 4F | 317 207 CF | — | 137 95 5F | 337 223 DF | o | 157 111 6F | 357 239 EF | | | | 15 |

LEGEND

| | GL | GR |
|-----|-----------------|------------------|
| 4/1 | 12/1 | |
| A | 101 65 41 | 301 193 C1 |

Column/Row
Octal
Decimal
Hex

MLO-006605

DEC 8-Bit Turkish Supplemental Character Set

| | | GL GR | | | GL GR | | | GL GR | | | GL GR | | | GL GR | | | | |
|--------|----|-------|-----|---|-------|-----|----|-------|-----|----|-------|-----|----|-------|-----|----|-----|-----|
| Column | | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 |
| Row 0 | | | | o | 60 | 260 | ‘ | 100 | 300 | g | 120 | 320 | à | 140 | 340 | g | 160 | 360 |
| | | | | | 48 | 176 | À | 64 | 192 | Ğ | 80 | 208 | à | 96 | 224 | ğ | 112 | 240 |
| | | | | | 30 | B0 | 40 | C0 | | 50 | D0 | | 60 | E0 | | 70 | F0 | |
| 1 | i | 41 | 241 | ± | 61 | 261 | ’ | 101 | 301 | Ñ | 121 | 321 | á | 141 | 341 | ñ | 161 | 361 |
| | | 33 | 161 | | 49 | 177 | Á | 65 | 193 | Ó | 81 | 209 | á | 97 | 225 | ñ | 113 | 241 |
| | | 21 | A1 | | 31 | B1 | 41 | C1 | | 51 | D1 | | 61 | E1 | | 71 | F1 | |
| 2 | ç | 42 | 242 | 2 | 62 | 262 | Â | 102 | 302 | Ò | 122 | 322 | â | 142 | 342 | ò | 162 | 362 |
| | | 34 | 162 | | 50 | 178 | À | 66 | 194 | Ó | 82 | 210 | â | 98 | 226 | ò | 114 | 242 |
| | | 22 | A2 | | 32 | B2 | 42 | C2 | | 52 | D2 | | 62 | E2 | | 72 | F2 | |
| 3 | £ | 43 | 243 | 3 | 63 | 263 | Ã | 103 | 303 | Ó | 123 | 323 | ã | 143 | 343 | ó | 163 | 363 |
| | | 35 | 163 | | 51 | 179 | Ã | 67 | 195 | Ó | 83 | 211 | ã | 99 | 227 | ó | 115 | 243 |
| | | 23 | A3 | | 33 | B3 | 43 | C3 | | 53 | D3 | | 63 | E3 | | 73 | F3 | |
| 4 | | 44 | 244 | | 64 | 264 | Ä | 104 | 304 | Ô | 124 | 324 | ä | 144 | 344 | ô | 164 | 364 |
| | | 36 | 164 | | 52 | 180 | Ä | 68 | 196 | Ô | 84 | 212 | ä | 100 | 228 | ô | 116 | 244 |
| | | 24 | A4 | | 34 | B4 | 44 | C4 | | 54 | D4 | | 64 | E4 | | 74 | F4 | |
| 5 | ¥ | 45 | 245 | μ | 65 | 265 | ö | 105 | 305 | Ö | 125 | 325 | ö | 145 | 345 | ö | 165 | 365 |
| | | 37 | 165 | | 53 | 181 | À | 69 | 197 | Ö | 85 | 213 | ö | 101 | 229 | ö | 117 | 245 |
| | | 25 | A5 | | 35 | B5 | 45 | C5 | | 55 | D5 | | 65 | E5 | | 75 | F5 | |
| 6 | | 46 | 246 | ¶ | 66 | 266 | Æ | 106 | 306 | Ö | 126 | 326 | æ | 146 | 346 | ö | 166 | 366 |
| | | 38 | 166 | | 54 | 182 | Æ | 70 | 198 | Ö | 86 | 214 | æ | 102 | 230 | ö | 118 | 246 |
| | | 26 | A6 | | 36 | B6 | 46 | C6 | | 56 | D6 | | 66 | E6 | | 76 | F6 | |
| 7 | § | 47 | 247 | • | 67 | 267 | ç | 107 | 307 | Œ | 127 | 327 | ç | 147 | 347 | œ | 167 | 367 |
| | | 39 | 167 | | 55 | 183 | ç | 71 | 199 | Œ | 87 | 215 | ç | 103 | 231 | œ | 119 | 247 |
| | | 27 | A7 | | 37 | B7 | 47 | C7 | | 57 | D7 | | 67 | E7 | | 77 | F7 | |
| 8 | ¤ | 50 | 250 | | 70 | 270 | ‘ | 110 | 310 | Œ | 130 | 330 | è | 150 | 350 | ø | 170 | 370 |
| | | 40 | 168 | | 56 | 184 | È | 72 | 200 | Œ | 88 | 216 | è | 104 | 232 | ø | 120 | 248 |
| | | 28 | A8 | | 38 | B8 | 48 | C8 | | 58 | D8 | | 68 | E8 | | 78 | F8 | |
| 9 | © | 51 | 251 | 1 | 71 | 271 | ’ | 111 | 311 | Ù | 131 | 331 | é | 151 | 351 | ú | 171 | 371 |
| | | 41 | 169 | | 57 | 185 | È | 73 | 201 | Ù | 89 | 217 | é | 105 | 233 | ú | 121 | 249 |
| | | 29 | A9 | | 39 | B9 | 49 | C9 | | 59 | D9 | | 69 | E9 | | 79 | F9 | |
| 10 | ¤ | 52 | 252 | o | 72 | 272 | Ê | 112 | 312 | Ù | 132 | 332 | ê | 152 | 352 | ú | 172 | 372 |
| | | 42 | 170 | | 58 | 186 | Ê | 74 | 202 | Ù | 90 | 218 | ê | 106 | 234 | ú | 122 | 250 |
| | | 2A | AA | | 3A | BA | 4A | CA | | 5A | DA | | 6A | EA | | 7A | FA | |
| 11 | <> | 53 | 253 | » | 73 | 273 | Ë | 113 | 313 | Ù | 133 | 333 | ë | 153 | 353 | û | 173 | 373 |
| | | 43 | 171 | | 59 | 187 | Ë | 75 | 203 | Ù | 91 | 219 | ë | 107 | 235 | û | 123 | 251 |
| | | 2B | AB | | 3B | BB | 4B | CB | | 5B | DB | | 6B | EB | | 7B | FB | |
| 12 | | 54 | 254 | ¼ | 74 | 274 | ì | 114 | 314 | Ü | 134 | 334 | í | 154 | 354 | ü | 174 | 374 |
| | | 44 | 172 | | 60 | 188 | ì | 76 | 204 | Ü | 92 | 220 | í | 108 | 236 | ü | 124 | 252 |
| | | 2C | AC | | 3C | BC | 4C | CC | | 5C | DC | | 6C | EC | | 7C | FC | |
| 13 | | 55 | 255 | ½ | 75 | 275 | í | 115 | 315 | Ý | 135 | 335 | í | 155 | 355 | ÿ | 175 | 375 |
| | | 45 | 173 | | 61 | 189 | í | 77 | 205 | Ý | 93 | 221 | í | 109 | 237 | ÿ | 125 | 253 |
| | | 2D | AD | | 3D | BD | 4D | CD | | 5D | DD | | 6D | ED | | 7D | FD | |
| 14 | ı | 56 | 256 | I | 76 | 276 | Î | 116 | 316 | Ş | 136 | 336 | î | 156 | 356 | ş | 176 | 376 |
| | | 46 | 174 | | 62 | 190 | Î | 78 | 206 | Ş | 94 | 222 | î | 110 | 238 | ş | 126 | 254 |
| | | 2E | AE | | 3E | BE | 4E | CE | | 5E | DE | | 6E | EE | | 7E | FE | |
| 15 | | 57 | 257 | ç | 77 | 277 | İ | 117 | 317 | Þ | 137 | 337 | ï | 157 | 357 | | | 15 |
| | | 47 | 175 | | 63 | 191 | İ | 79 | 207 | Þ | 95 | 223 | ï | 111 | 239 | | | |
| | | 2F | AF | | 3F | BF | 4F | CF | | 5F | DF | | 6F | EF | | | | |

LEGEND

| | GL | GR |
|-----|------|-----|
| 4/1 | 12/1 | |
| ‘ | 101 | 301 |
| ’ | 65 | 193 |
| ‘ | 41 | C1 |

Column/Row
Octal
Decimal
Hex

MLO-006606

DEC Greek Supplemental Character Set

| | | GL GR | | | GL GR | | | GL GR | | | GL GR | | | GL GR | | | | |
|--------|---|-------|-----|-----|-------|-----|-------|-------|-----|--|-------|-----|---------|-------|-----|--|-----|-----|
| Column | | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 |
| Row 0 | | | | o | 60 | 260 | .. | 100 | 300 | | 120 | 320 | .. | 140 | 340 | | 160 | 360 |
| 1 | i | 41 | 241 | | 61 | 261 | t | 64 | 192 | | 80 | 208 | v | 96 | 224 | | 112 | 240 |
| 2 | c | 42 | 242 | | 62 | 262 | A | 65 | 193 | | 50 | D0 | u | 60 | E0 | | 70 | F0 |
| 3 | f | 43 | 243 | | 63 | 263 | B | 66 | 194 | | 121 | 321 | alpha | 141 | 341 | | 113 | 241 |
| 4 | | 44 | 244 | | 64 | 264 | A | 68 | 196 | | 81 | 209 | beta | 97 | 225 | | 71 | F1 |
| 5 | y | 45 | 245 | | 65 | 265 | A | 67 | 195 | | 51 | D1 | gamma | 61 | E1 | | 161 | 361 |
| 6 | | 37 | 165 | μ | 53 | 181 | E | 43 | C3 | | 122 | 322 | delta | 142 | 342 | | 114 | 242 |
| 7 | | 25 | A5 | | 35 | B5 | Z | 69 | 197 | | 82 | 210 | epsilon | 98 | 226 | | 72 | F2 |
| 8 | | 46 | 246 | | 66 | 266 | A | 70 | 306 | | 52 | D2 | zeta | 62 | E2 | | 162 | 362 |
| 9 | | 38 | 166 | | 54 | 182 | X | 70 | 198 | | 124 | 324 | delta | 144 | 344 | | 116 | F4 |
| 10 | | 26 | A6 | | 36 | B6 | Z | 46 | C6 | | 84 | 212 | epsilon | 100 | 228 | | 74 | F4 |
| 11 | | 47 | 247 | | 67 | 267 | H | 107 | 307 | | 54 | D4 | zeta | 145 | 345 | | 164 | 364 |
| 12 | | 39 | 167 | | 55 | 183 | A | 71 | 199 | | 125 | 325 | epsilon | 101 | 229 | | 117 | F5 |
| 13 | | 27 | A7 | | 37 | B7 | X | 47 | C7 | | 85 | 213 | omega | 65 | E5 | | 75 | F5 |
| 14 | | 50 | 250 | | 70 | 270 | Theta | 110 | 310 | | 55 | D5 | eta | 147 | 347 | | 165 | 365 |
| 15 | | 40 | 168 | | 56 | 184 | A | 72 | 200 | | 126 | 326 | nu | 102 | 230 | | 117 | F5 |
| 16 | | 28 | A8 | | 38 | B8 | M | 48 | C8 | | 86 | 214 | phi | 66 | E6 | | 166 | 366 |
| 17 | | 51 | 251 | 1 | 71 | 271 | I | 111 | 311 | | 56 | D6 | phi | 102 | 230 | | 118 | F6 |
| 18 | | 41 | 169 | | 57 | 185 | A | 73 | 201 | | 127 | 327 | omega | 67 | E7 | | 166 | 366 |
| 19 | | 29 | A9 | | 39 | B9 | O | 49 | C9 | | 87 | 215 | eta | 103 | 231 | | 119 | F7 |
| 20 | a | 52 | 252 | | 72 | 272 | K | 112 | 312 | | 57 | D7 | chi | 67 | E7 | | 167 | 367 |
| 21 | | 42 | 170 | | 58 | 186 | A | 74 | 202 | | 128 | 328 | nu | 103 | 231 | | 119 | F7 |
| 22 | | 2A | AA | | 3A | BA | X | 4A | CA | | 90 | 218 | phi | 68 | E8 | | 167 | 367 |
| 23 | | 53 | 253 | | 73 | 273 | A | 113 | 313 | | 5A | DA | phi | 104 | 232 | | 120 | F8 |
| 24 | | 43 | 171 | | 59 | 187 | M | 75 | 203 | | 133 | 333 | omega | 68 | E8 | | 170 | 370 |
| 25 | | 2B | AB | | 3B | BB | A | 4B | CB | | 91 | 219 | eta | 104 | 232 | | 120 | F8 |
| 26 | | 54 | 254 | 1/4 | 74 | 274 | A | 114 | 314 | | 5C | DC | nu | 154 | 354 | | 174 | 374 |
| 27 | | 44 | 172 | | 60 | 188 | A | 76 | 204 | | 92 | 220 | mu | 108 | 236 | | 124 | 252 |
| 28 | | 2C | AC | | 3C | BC | M | 4C | CC | | 5D | DD | zeta | 6C | EC | | 7C | FC |
| 29 | | 55 | 255 | | 75 | 275 | N | 115 | 315 | | 135 | 335 | nu | 155 | 355 | | 175 | 375 |
| 30 | | 45 | 173 | | 61 | 189 | A | 77 | 205 | | 93 | 221 | eta | 109 | 237 | | 125 | 253 |
| 31 | | 2D | AD | | 3D | BD | O | 4D | CD | | 5D | DD | chi | 6D | ED | | 7D | FD |
| 32 | | 56 | 256 | | 76 | 276 | A | 116 | 316 | | 136 | 336 | nu | 156 | 356 | | 176 | 376 |
| 33 | | 46 | 174 | | 62 | 190 | A | 78 | 206 | | 94 | 222 | mu | 110 | 238 | | 126 | 254 |
| 34 | | 2E | AE | | 3E | BE | A | 4E | CE | | 5E | DE | zeta | 6E | EE | | 7E | FE |
| 35 | | 57 | 257 | ζ | 77 | 277 | O | 117 | 317 | | 137 | 337 | nu | 157 | 357 | | | |
| 36 | | 47 | 175 | | 63 | 191 | A | 79 | 207 | | 95 | 223 | eta | 111 | 239 | | | |
| 37 | | 2F | AF | | 3F | BF | O | 4F | CF | | 5F | DF | chi | 6F | EF | | | |

LEGEND

| | GL | GR |
|---|-----------------|------------------|
| | 4/1 | 12/1 |
| A | 101 65 41 | 301 193 C1 |

Column/Row
Octal
Decimal
Hex

MLO-006607

ISO Latin-2 Supplemental Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | | | |
|--------|-------------|----------------|------------------|-----------|----------------|------------------|-----------|-----------------|------------------|------------------|-----------|-----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-------|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 | | | | |
| Row 0 | NBSP | 40 32 20 | 240 160 A0 | ° | 60 45 30 | 260 175 90 | ‘ | R | 100 94 40 | 300 192 C0 | ‘ | D | 120 90 50 | 320 208 D0 | ‘ | 140 96 60 | 340 224 E0 | ‘ | 160 112 70 | 360 240 F0 | Row 0 |
| 1 | A | 41 33 21 | 241 161 A1 | á | 61 49 31 | 261 177 B1 | Á | 101 88 41 | 301 193 C1 | ‘ | N | 121 81 51 | 321 209 D1 | á | 141 87 61 | 341 226 E1 | ‘ | 161 113 71 | 361 241 F1 | 1 | |
| 2 | “ | 42 34 22 | 242 162 A2 | “ | 62 50 32 | 262 175 B2 | Å | 102 86 42 | 302 194 C2 | ‘ | Ñ | 122 82 52 | 322 210 D2 | á | 142 88 62 | 342 226 E2 | ‘ | 162 114 72 | 362 242 F2 | 2 | |
| 3 | ż | 43 35 23 | 243 163 A3 | ł | 63 51 33 | 263 179 B3 | Ā | 103 87 43 | 303 195 C3 | ‘ | Ó | 123 83 53 | 323 211 D3 | ž | 143 89 63 | 343 227 E3 | ó | 163 115 73 | 363 243 F3 | 3 | |
| 4 | ꝝ | 44 36 24 | 244 164 A4 | ‘ | 64 52 34 | 264 160 B4 | Ä | 104 86 44 | 304 196 C4 | ‘ | Ö | 124 84 54 | 324 212 D4 | “ | 144 84 64 | 344 226 E4 | ö | 164 116 74 | 364 244 F4 | 4 | |
| 5 | ꝑ | 45 37 25 | 245 165 A5 | í | 65 53 35 | 265 181 B5 | Ĺ | 105 89 45 | 305 197 C5 | ‘ | Ӯ | 125 85 55 | 325 213 D5 | í | 145 101 65 | 345 229 E5 | ó | 165 117 75 | 365 245 F5 | 5 | |
| 6 | Ꝛ | 46 38 28 | 246 166 A6 | š | 66 54 36 | 266 182 B6 | Ć | 106 70 46 | 306 198 C6 | ‘ | Ӯ | 126 86 56 | 326 214 D6 | ć | 146 102 66 | 346 230 E6 | ö | 166 118 76 | 366 246 F6 | 6 | |
| 7 | Ꝝ | 47 39 27 | 247 167 A7 | Ꝝ | 67 55 37 | 267 183 B7 | Ҫ | 107 71 47 | 307 199 C7 | ‘ | X | 127 87 57 | 327 215 D7 | ć | 147 103 67 | 347 231 E7 | ÷ | 167 119 77 | 367 247 F7 | 7 | |
| 8 | - | 50 40 28 | 250 168 AB | Ꝝ | 70 56 38 | 270 184 B8 | Ҫ | 110 72 46 | 310 200 C8 | ‘ | R | 130 88 58 | 330 216 D8 | ć | 150 104 68 | 350 232 E8 | Ꝝ | 170 120 78 | 370 248 F8 | 8 | |
| 9 | Ꝟ | 51 41 29 | 251 169 A9 | Ꝟ | 71 57 39 | 271 185 B9 | Ѐ | 111 73 49 | 311 201 C9 | ‘ | Ӯ | 131 89 59 | 331 217 D9 | é | 151 105 69 | 351 233 E9 | ú | 171 121 79 | 371 249 F9 | 9 | |
| 10 | ꝟ | 52 42 2A | 252 170 AA | ꝟ | 72 58 3A | 272 186 BA | Ӗ | 112 74 4A | 312 202 CA | ‘ | Ӯ | 132 90 5A | 332 218 DA | ӗ | 152 106 6A | 352 234 EA | ú | 172 122 7A | 372 250 FA | 10 | |
| 11 | ꝣ | 53 43 2B | 253 171 AB | ꝣ | 73 59 3B | 273 187 BB | Ӗ | 113 75 4B | 313 203 CB | ‘ | Ӯ | 133 91 5B | 333 219 DB | ӗ | 153 107 6B | 353 235 EB | ú | 173 123 7B | 373 251 FB | 11 | |
| 12 | Ꝥ | 54 44 2C | 254 172 AC | Ꝥ | 74 60 3C | 274 188 BC | Ӗ | 114 76 4C | 314 204 CC | ‘ | Ӯ | 134 92 5C | 334 220 DC | ӗ | 154 108 6C | 354 236 EC | ü | 174 124 7C | 374 252 FC | 12 | |
| 13 | - | 55 45 2D | 255 173 AD | - | 75 61 3D | 275 189 BD | Ѝ | 115 77 4D | 315 205 CD | ‘ | Ӯ | 135 93 5D | 335 221 DD | í | 155 108 6D | 355 237 ED | ý | 175 125 7D | 375 253 FD | 13 | |
| 14 | ꝥ | 56 46 2E | 256 174 AE | ꝥ | 76 62 3E | 276 190 BE | Ӣ | 116 78 4E | 316 206 CE | ‘ | Ӯ | 136 94 5E | 336 222 DE | î | 156 110 6E | 356 238 EE | ᷇ | 176 126 7E | 376 254 FE | 14 | |
| 15 | Ꝧ | 57 47 2F | 257 175 AF | Ꝧ | 77 63 3F | 277 191 BF | Ӯ | 117 79 4F | 317 207 CF | ‘ | Ӯ | 137 95 5F | 337 223 DF | đ | 157 111 6F | 357 239 EF | · | 177 127 7F | 377 255 FF | 15 | |

LEGEND

| GL | GR |
|-----------|-----------|
| 4/1 | 12/1 |
| ‘ | ‘ |

Column/Row
Octal
Decimal
Hex

ISO Latin-Cyrillic Supplemental Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | | | | |
|--------|-------------|----------------|------------------|-----------|----------------|------------------|-----------|-----------------|------------------|-----------|-----------------|------------------|-----------|------------------|------------------|-----------|------------------|------------------|-------|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | | | | |
| Row 0 | NBSP | 40 32 20 | 240 160 A0 | А | 60 48 30 | 260 176 B0 | Р | 100 84 40 | 300 182 C0 | а | 120 80 50 | 320 208 D0 | р | 140 96 60 | 340 224 E0 | н* | 160 112 70 | 360 240 F0 | Row 0 |
| 1 | Ё | 41 33 21 | 241 161 A1 | Б | 61 49 31 | 261 177 B1 | С | 101 85 41 | 301 183 C1 | δ | 121 81 51 | 321 209 D1 | с | 141 97 61 | 341 225 E1 | е | 161 113 71 | 361 241 F1 | 1 |
| 2 | ҂ | 42 34 22 | 242 162 A2 | В | 62 50 32 | 262 178 B2 | Т | 102 86 42 | 302 184 C2 | в | 122 82 52 | 322 210 D2 | т | 142 98 62 | 342 226 E2 | ѣ | 162 114 72 | 362 242 F2 | 2 |
| 3 | Г | 43 35 23 | 243 163 A3 | Г | 63 51 33 | 263 179 B3 | У | 103 87 43 | 303 195 C3 | Г | 123 83 53 | 323 211 D3 | у | 143 99 63 | 343 227 E3 | ѓ | 163 115 73 | 363 243 F3 | 3 |
| 4 | € | 44 36 24 | 244 164 A4 | Д | 64 52 34 | 264 180 B4 | Φ | 104 88 44 | 304 196 C4 | л | 124 84 54 | 324 212 D4 | ф | 144 100 84 | 344 228 E4 | € | 164 116 74 | 364 244 F4 | 4 |
| 5 | Ѕ | 45 37 25 | 245 165 A5 | Е | 65 53 35 | 265 181 B5 | Х | 105 89 45 | 305 197 C5 | е | 125 85 55 | 325 213 D5 | х | 145 101 85 | 345 229 E5 | ѕ | 165 117 75 | 365 245 F5 | 5 |
| 6 | І | 46 38 26 | 246 166 A6 | Ж | 66 54 36 | 266 182 B6 | Ц | 106 70 46 | 306 198 C6 | ж | 126 86 56 | 326 214 D6 | ц | 146 102 86 | 346 230 E6 | і | 166 118 76 | 366 246 F6 | 6 |
| 7 | Ї | 47 39 27 | 247 167 A7 | Ӟ | 67 55 37 | 267 183 B7 | ҂ | 107 71 47 | 307 199 C7 | ӟ | 127 87 57 | 327 215 D7 | ҹ | 147 103 87 | 347 231 E7 | ї | 167 119 77 | 367 247 F7 | 7 |
| 8 | Ј | 50 40 28 | 250 168 AB | И | 70 56 38 | 270 184 B8 | Ӣ | 110 72 48 | 310 200 C8 | и | 130 88 58 | 330 216 D8 | Ӣ | 150 104 68 | 350 232 E8 | ј | 170 120 78 | 370 248 F8 | 8 |
| 9 | Ѡ | 51 41 29 | 251 169 A9 | Ӣ | 71 57 39 | 271 185 B9 | Ӣ | 111 73 49 | 311 201 C9 | Ӣ | 131 89 59 | 331 217 D9 | Ӣ | 151 105 69 | 351 233 E9 | Ѡ | 171 121 79 | 371 249 F9 | 9 |
| 10 | Ҥ | 52 42 2A | 252 170 AA | Ӯ | 72 58 3A | 272 186 BA | Ӯ | 112 74 4A | 312 202 CA | Ӯ | 132 90 5A | 332 218 DA | Ӯ | 152 106 6A | 352 234 EA | Ҥ | 172 122 7A | 372 250 FA | 10 |
| 11 | Ӯ | 53 43 2B | 253 171 AB | Ӆ | 73 59 3B | 273 187 BB | Ӯ | 113 75 4B | 313 203 CB | Ӯ | 133 91 5B | 333 219 DB | Ӯ | 153 107 6B | 353 235 EB | Ӯ | 173 123 7B | 373 251 FB | 11 |
| 12 | Ӱ | 54 44 2C | 254 172 AC | Ӎ | 74 60 3C | 274 188 BC | Ӱ | 114 76 4C | 314 204 CC | Ӎ | 134 92 5C | 334 220 DC | Ӱ | 154 108 6C | 354 236 EC | Ӱ | 174 124 7C | 374 252 FC | 12 |
| 13 | - | 55 45 2D | 255 173 AD | Ӯ | 75 61 3D | 275 189 BD | Ӯ | 115 77 4D | 315 205 CD | Ӯ | 135 93 5D | 335 221 DD | Ӯ | 155 109 6D | 355 237 ED | Ӯ | 175 125 7D | 375 253 FD | 13 |
| 14 | ӷ | 56 46 2E | 256 174 AE | Ӯ | 76 62 3E | 276 190 BE | Ӯ | 116 78 4E | 316 206 CE | Ӯ | 136 94 5E | 336 222 DE | Ӯ | 156 110 6E | 356 238 EE | ӷ | 176 126 7E | 376 254 FE | 14 |
| 15 | Ӯ | 57 47 2F | 257 175 AF | Ӯ | 77 63 3F | 277 191 BF | Ӯ | 117 79 4F | 317 207 CF | Ӯ | 137 95 5F | 337 223 DF | Ӯ | 157 111 6F | 357 239 EF | Ӯ | 177 127 7F | 377 255 FF | 15 |

LEGEND

| | GL | GR |
|----------|-----------------|------------------|
| | 4/1 | 12/1 |
| C | 101 65 41 | 301 193 C1 |

Column/Row
Octal
Decimal
Hex

MLO-006609

ISO Latin-Greek Supplemental Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | |
|--------|-------------|---------------------------|-----|---------------------------|----------------------|----------------------------|----------------------------|----------------------------|----------------------------|-----------------------------|----------------------------|-----------------------------|-----------------------------|-----------|--|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | |
| Row 0 | NBSP | 40 240 32 160 20 A0 | ▫ | 60 260 48 176 30 B0 | ▫ 1 1 84 40 C0 | I | 100 300 88 198 41 C1 | II | 120 320 80 208 50 D0 | ! ˘ ˘ 88 80 | 140 340 87 226 81 E1 | π | 160 360 112 240 70 F0 | Row 0 | |
| 1 | ‘ | 41 241 33 161 21 A1 | ± | 81 261 49 177 31 B1 | A | 101 301 88 198 41 C1 | P | 121 321 81 208 51 D1 | α | 141 341 87 226 81 E1 | ρ | 161 361 113 241 71 F1 | 1 | | |
| 2 | ‘ | 42 242 34 162 22 A2 | ² | 82 262 50 178 32 B2 | B | 102 302 88 198 42 C2 | | 122 322 82 210 52 D2 | β | 142 342 88 226 82 E2 | ς | 162 362 114 242 72 F2 | 2 | | |
| 3 | £ | 43 243 35 163 23 A3 | ³ | 83 263 51 179 33 B3 | Γ | 103 303 87 195 43 C3 | Σ | 123 323 88 211 53 D3 | γ | 143 343 89 227 83 E3 | σ | 163 363 115 243 73 F3 | 3 | | |
| 4 | | 44 244 36 164 24 A4 | ¹ | 84 264 52 180 34 B4 | Δ | 104 304 88 196 44 C4 | T | 124 324 84 212 54 D4 | δ | 144 344 100 226 84 E4 | τ | 164 364 116 244 74 F4 | 4 | | |
| 5 | | 45 245 37 165 25 A5 | ! “ | 85 265 53 181 35 B5 | Ε | 105 305 89 197 45 C5 | Υ | 125 325 85 213 55 D5 | ε | 145 345 101 229 85 E5 | υ | 165 365 117 245 75 F5 | 5 | | |
| 6 | — | 46 246 38 166 26 A6 | ‘A | 86 266 54 182 36 B6 | Z | 106 306 70 198 46 C6 | Φ | 126 326 86 214 56 D6 | ζ | 146 346 102 230 86 E6 | φ | 166 366 118 246 76 F6 | 6 | | |
| 7 | S | 47 247 38 167 27 A7 | • | 67 267 55 183 37 B7 | H | 107 307 71 199 47 C7 | X | 127 327 87 215 57 D7 | η | 147 347 103 231 87 E7 | χ | 167 367 119 247 77 F7 | 7 | | |
| 8 | - | 50 250 40 168 28 AB | ‘E | 70 270 56 184 38 B8 | Θ | 110 310 72 200 48 C8 | Ψ | 130 330 88 216 58 D8 | θ | 150 350 104 232 88 E8 | ψ | 170 370 120 248 78 F8 | 8 | | |
| 9 | © | 51 251 41 169 29 A9 | ‘H | 71 271 57 185 39 B9 | I | 111 311 73 201 49 C9 | Ω | 131 331 89 217 59 D9 | ι | 151 351 105 233 89 E9 | ω | 171 371 121 249 79 F9 | 9 | | |
| 10 | | 52 252 42 170 2A AA | ‘I | 72 272 58 186 3A BA | K | 112 312 74 202 4A CA | Ϊ | 132 332 90 218 5A DA | κ | 152 352 106 234 6A EA | Ϊ | 172 372 122 250 7A FA | 10 | | |
| 11 | « | 53 253 43 171 2B AB | » | 73 273 59 187 3B BB | Λ | 113 313 75 203 4B CB | Ϊ | 133 333 91 219 5B DB | λ | 153 353 107 235 6B EB | Ϊ | 173 373 123 251 7B FB | 11 | | |
| 12 | — | 54 254 44 172 2C AC | ‘O | 74 274 60 188 3C BC | M | 114 314 76 204 4C CC | ! α | 134 334 92 220 5C DC | μ | 154 354 108 236 6C EC | ! 0 | 174 374 124 252 7C FC | 12 | | |
| 13 | - | 55 255 45 173 2D AD | ‘N | 75 275 61 189 3D BD | N | 115 315 77 205 4D CD | ! ε | 135 335 93 221 5D DD | ν | 155 355 109 237 6D ED | ! ν | 175 375 125 253 7D FD | 13 | | |
| 14 | | 56 256 46 174 2E AE | ‘Τ | 76 276 62 190 3E BE | E | 116 316 78 206 4E CE | ! η | 136 336 94 222 5E DE | ξ | 156 356 110 238 6E EE | ! ω | 176 376 126 254 7E FE | 14 | | |
| 15 | — | 57 257 47 175 2F AF | ‘Ω | 77 277 63 191 3F BF | O | 117 317 79 207 4F CF | ! 1 | 137 337 95 223 5F DF | ο | 157 357 111 239 6F EF | | 177 377 127 255 7F FF | 15 | | |

LEGEND

| | GL | GR |
|----------|-----------------|------------------|
| | 4/1 | 12/1 |
| A | 101 65 41 | 301 193 C1 |

Column/Row
Octal
Decimal
Hex

MLO-008610

ISO Latin-5 Supplemental Character Set

| | GL | GR | | GL | GR | | GL | GR | | GL | GR | | GL | GR | | | |
|--------|-------------|---------------------------|---|---------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------|-----------|-----------|--|----------|-----------|
| Column | 2 | 10 | | 3 | 11 | | 4 | 12 | | 5 | 13 | | 6 | 14 | | 7 | 15 |
| Row 0 | NBSP | 40 240 32 160 20 A0 | * | 60 260 48 178 30 B0 | À 100 300 Á 94 192 À 40 C0 | Ā 101 301 Á 85 183 À 41 C1 | Ā 120 320 Ó 90 208 À 50 D0 | à 140 340 ó 89 224 à 60 E0 | à 140 340 ó 87 225 à 61 E1 | ÿ 160 360 í 112 240 ÿ 70 F0 | ÿ 160 360 í 113 241 ÿ 71 F1 | Row 0 | | | | | |
| 1 | I | 41 241 33 161 21 A1 | ± | 61 261 48 177 31 B1 | Á 102 302 À 86 194 Á 42 C2 | Ā 121 321 Ó 91 209 À 51 D1 | é 141 341 ó 97 225 é 61 E1 | é 141 341 ó 95 226 é 62 E2 | í 161 361 ñ 113 241 í 71 F1 | í 161 361 ñ 114 242 í 72 F2 | 1 | | | | | | |
| 2 | ¢ | 42 242 34 162 22 A2 | 2 | 62 262 50 176 32 B2 | À 102 302 Á 86 194 À 42 C2 | Ó 122 322 ò 92 210 À 52 D2 | à 142 342 ó 93 226 à 62 E2 | à 142 342 ó 95 226 à 62 E2 | ò 162 362 ó 114 242 ò 72 F2 | ò 162 362 ó 114 242 ò 72 F2 | 2 | | | | | | |
| 3 | £ | 43 243 35 163 23 A3 | 3 | 63 263 51 179 33 B3 | Ä 103 303 Å 87 195 Ä 43 C3 | Ó 123 323 ö 93 211 Ä 53 D3 | ë 143 343 ö 98 227 ë 63 E3 | ë 143 343 ö 98 227 ë 63 E3 | ó 163 363 í 115 243 ó 73 F3 | ó 163 363 í 115 243 ó 73 F3 | 3 | | | | | | |
| 4 | ¤ | 44 244 36 164 24 A4 | ' | 64 264 52 180 34 B4 | Ä 104 304 Å 88 196 Ä 44 C4 | Ô 124 324 ö 94 212 Ä 54 D4 | ë 144 344 ö 100 226 ë 64 E4 | ë 144 344 ö 100 226 ë 64 E4 | ô 164 364 ö 116 244 ô 74 F4 | ô 164 364 ö 116 244 ô 74 F4 | 4 | | | | | | |
| 5 | ¥ | 45 245 37 165 25 A5 | μ | 65 265 53 181 35 B5 | À 105 305 Á 89 197 À 45 C5 | Ö 125 325 ö 95 213 À 55 D5 | ö 145 345 ö 101 229 ö 65 E5 | ö 145 345 ö 101 229 ö 65 E5 | ö 165 365 í 117 245 ö 75 F5 | ö 165 365 í 117 245 ö 75 F5 | 5 | | | | | | |
| 6 | | 46 246 36 166 26 A6 | ¶ | 66 266 54 182 36 B6 | Æ 106 306 Æ 70 198 Æ 46 C6 | Ø 126 326 ø 86 214 Æ 56 D6 | ø 146 346 ø 102 230 ø 66 E6 | ø 146 346 ø 102 230 ø 66 E6 | ø 166 366 í 118 246 ø 76 F6 | ø 166 366 í 118 246 ø 76 F6 | 6 | | | | | | |
| 7 | \$ | 47 247 39 167 27 A7 | • | 67 267 55 183 37 B7 | Ç 107 307 Ç 71 199 Ç 47 C7 | × 127 327 × 87 215 Ç 57 D7 | ç 147 347 ç 103 231 ç 67 E7 | ç 147 347 ç 103 231 ç 67 E7 | ÷ 167 367 ÷ 118 247 ÷ 77 F7 | ÷ 167 367 ÷ 118 247 ÷ 77 F7 | 7 | | | | | | |
| 8 | -- | 50 250 40 168 28 A8 | , | 70 270 58 184 36 B6 | Ё 110 310 Ё 72 200 Ё 48 C6 | Ø 130 330 ø 88 216 Ø 56 D6 | ø 150 350 ø 104 232 ø 66 E6 | ø 150 350 ø 104 232 ø 66 E6 | ø 170 370 í 120 248 ø 76 F6 | ø 170 370 í 120 248 ø 76 F6 | 8 | | | | | | |
| 9 | © | 51 251 41 169 29 A9 | 1 | 71 271 57 185 39 B9 | Ё 111 311 Ё 73 201 Ё 49 C9 | Ù 131 331 ù 88 217 Ù 58 D9 | ù 151 351 ù 105 233 ù 69 E9 | ù 151 351 ù 105 233 ù 69 E9 | ù 171 371 í 121 249 ù 78 F9 | ù 171 371 í 121 249 ù 78 F9 | 9 | | | | | | |
| 10 | ™ | 52 252 42 170 2A AA | º | 72 272 58 186 3A BA | Ё 112 312 Ё 74 202 Ё 4A CA | Ù 132 332 ù 90 218 Ù 5A DA | ù 152 352 ù 106 234 ù 6A EA | ù 152 352 ù 106 234 ù 6A EA | ù 172 372 í 122 250 ù 7A FA | ù 172 372 í 122 250 ù 7A FA | 10 | | | | | | |
| 11 | « | 53 253 43 171 2B AB | » | 73 273 59 187 35 BB | Ё 113 313 Ё 75 203 Ё 4B CB | Ù 133 333 ù 91 219 Ù 5B DB | ù 153 353 ù 107 235 ù 6B EB | ù 153 353 ù 107 235 ù 6B EB | ù 173 373 í 123 251 ù 7B FB | ù 173 373 í 123 251 ù 7B FB | 11 | | | | | | |
| 12 | ¬ | 54 254 44 172 2C AC | ¼ | 74 274 60 188 3C BC | Í 114 314 Í 76 204 Í 4C CC | Ù 134 334 ù 92 220 Ù 5C DC | í 154 354 í 108 236 í 6C EC | í 154 354 í 108 236 í 6C EC | ü 174 374 í 124 252 ü 7C FC | ü 174 374 í 124 252 ü 7C FC | 12 | | | | | | |
| 13 | - | 55 255 45 173 2D AD | ½ | 75 275 61 189 3D BD | Í 115 315 Í 77 205 Í 4D CD | Ù 135 335 ù 93 221 Ù 5D DD | í 155 355 í 109 237 í 6D ED | í 155 355 í 109 237 í 6D ED | í 175 375 í 125 253 í 7D FD | í 175 375 í 125 253 í 7D FD | 13 | | | | | | |
| 14 | ® | 56 256 46 174 2E AE | ¾ | 76 276 62 190 3E BE | Í 116 316 Í 78 206 Í 4E CE | Ù 136 336 ù 94 222 Ù 5E DE | í 156 356 í 110 238 í 6E EE | í 156 356 í 110 238 í 6E EE | í 176 376 í 126 254 í 7E FE | í 176 376 í 126 254 í 7E FE | 14 | | | | | | |
| 15 | - | 57 257 47 175 2F AF | ½ | 77 277 63 191 3F BF | Í 117 317 Í 79 207 Í 4F CF | Þ 137 337 þ 95 223 Þ 5F DF | í 157 357 í 111 239 í 6F EF | í 157 357 í 111 239 í 6F EF | ÿ 177 377 í 127 255 ÿ 7F FF | ÿ 177 377 í 127 255 ÿ 7F FF | 15 | | | | | | |

LEGEND

| GR |
|-----------|
| 12/1 |
| 301 |
| 163 |
| C1 |

Column Row
Octal Decimal Hex

ISO Latin 9

| | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | A0 | B0 | C0 | D0 | E0 | F0 |
|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 0 | | 0 | ® | P | | p | © | é | á | ™ | ℓ | ö | - | |
| 1 | ! | 1 | A | Q | a | q | ú | æ | i | ■ | ± | D | S | ± |
| 2 | " | 2 | B | R | b | r | é | ‰ | ó | ■ | T | ë | ö | - |
| 3 | # | 3 | C | S | c | s | â | ô | ú | | † | è | ð | ¾ |
| 4 | \$ | 4 | D | T | d | t | ä | ö | ñ | + | - | é | ñ | ¶ |
| 5 | X | 5 | E | U | e | u | à | ò | ñ | Á | + | € | ö | s |
| 6 | & | 6 | F | V | f | v | å | ú | æ | Å | ä | í | µ | + |
| 7 | ' | 7 | G | W | g | w | ç | ù | ø | À | À | í | p | . |
| 8 | (| 8 | H | X | h | x | ê | ÿ | ł | Œ | Œ | ï | p |) |
| 9 |) | 9 | I | Y | i | y | ë | ö | ø | Í | Í | ú | " | |
| A | * | : | J | Z | j | z | è | ü | ¬ | | ± | ѓ | ö | . |
| B | + | , | K | [| k | l | Y | š | ‡ | † | ■ | û | ž | |
| C | , | < | L | \ | l | l | £ | њ | ‡ | † | ■ | ÿ | ž | |
| D | - | = | M |] | m | l | í | ø | í | c | = | ; | ÿ | ž |
| E | . | > | N | - | n | - | À | × | « | † | † | - | - | - |
| F | / | ? | O | _ | o | | À | f | » | † | x | ■ | - | |