



**Canine-Table** 

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Abstract

POSIX-Nexus (Linux)

**Linux Edition** 

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### i Terminal Capabilities

Various terminal attributes and functionalities.

- $\bigcirc$  hs  $\Rightarrow$  (Has Status Line Terminal has a status line that can be updated separately)
- $\bigcirc$  eslok  $\Rightarrow$  (Escape Sequences Lock Supports switching between normal and application mode)
- $\Rightarrow$  (Hardcopy Mode Terminal has a hardware print mechanism)
- $bw \Rightarrow$  (Backspace Wraparound Cursor wraps from leftmost to rightmost position of the previous line)
- $hz \Rightarrow \text{(Hazeltine Bug Fix Prevents incorrect display of characters)}$
- $\bigcirc$  xon  $\Rightarrow$  (Uses XON/XOFF Flow Control Supports XON/XOFF for output handling)
- $\bigcirc$  eo  $\Rightarrow$  (Erase Overstrike Allows overstriking characters to be erased properly)
- $km \Rightarrow$  (Has Meta Key Indicates presence of an Alt/meta key)
- $\bigcirc$  am  $\Rightarrow$  (Auto-Margin Cursor automatically moves to the next line at the right margin)
- $bce \Rightarrow$  (Back Color Erase Erases screen content while retaining background color)
- $ccc \Rightarrow$  (Can Change Colors Allows modifying color definitions dynamically)
- $mc5i \Rightarrow (Printer Control Controls a printer connected to the terminal)$
- $\bigcirc$  mir  $\Rightarrow$  (Insert-Replace Mode Allows character insertion without overwriting)
- $\bigcirc$  msgr  $\Rightarrow$  (Safe Move in Standout Mode Ensures safe cursor movement in highlight mode)
- $\bigcirc$   $npc \Rightarrow$  (No Pad Characters Terminal does not require padding for operations)
- $\bigcirc$  xenl  $\Rightarrow$  (Fast Wraparound Cursor wraps to the next line without performance delay)



# i.i Color and Screen Properties

Terminal properties related to colors, screen size, and character encoding.

- colors#256  $\Rightarrow$  (Defines the number of colors supported—256 in this case)
- $\bigcirc$  cols#80  $\Rightarrow$  (Terminal screen width is 80 columns)
- $\bigcirc$  it#8  $\Rightarrow$  (Default tab stop is set at 8 spaces)
- $lines#24 \Rightarrow$  (Terminal screen height is 24 rows)
- pairs#65536 ⇒ (Defines the number of color pairs available for foreground/background combinations)

# i.ii Character Encoding and Alternate Character Set

Defines graphical symbol mappings within the terminal.

 $\bigcirc$  acsc  $\Rightarrow$  (Maps specific graphical symbols like box drawing characters to ASCII characters)



### i.iii Cursor Movement and Positioning

Controls how the cursor behaves in the terminal.

- $bel \Rightarrow$  (Rings the terminal bell audible alert: ^G)
- $\bigcirc$  blink  $\Rightarrow$  (\E[5m] Enables blinking text)
- $\bigcirc$  bold  $\Rightarrow$  (\E[1m] Enables bold text)
- $\bigcirc$  civis  $\Rightarrow$  (\E[?251] Hides the cursor)
- cnorm  $\Rightarrow$  (\E[?12l]\E[?25h] Restores normal cursor visibility)
- $\bigcirc$   $cr \Rightarrow (\r \text{Moves the cursor to the beginning of the current line})$
- $\bigcirc$  csr  $\Rightarrow$  (\E[%i%p1%d;%p2%dr] Sets the scrolling region in the terminal)
- $\bigcirc$  cub  $\Rightarrow$  (\E[\%p1\%dD] Moves the cursor backward by a specified number of characters)
- $\bigcirc$  cub1  $\Rightarrow$  (^H Moves the cursor back by one character (same as backspace))
- $\bigcirc$  cud  $\Rightarrow$  (\E[%p1%dB] Moves the cursor down by a specified number of rows)
- $\bigcirc$  *cud1*  $\Rightarrow$  (\n Moves the cursor down by one row)
- $\bigcirc$  cuf  $\Rightarrow$  (\E[%p1%dC] Moves the cursor forward by a specified number of characters)
- $\bigcirc$  *cuf1*  $\Rightarrow$  (\E[C] Moves the cursor forward by one character)
- $\bigcirc$  cup  $\Rightarrow$  (\E[%i%p1%d;%p2%dH] Moves the cursor to a specific row and column)
- $\bigcirc$  cuu  $\Rightarrow$  (\E[%p1%dA] Moves the cursor up by a specified number of rows)
- $\bigcirc$  cuu1  $\Rightarrow$  (\E[A] Moves the cursor up by one row)
- $\bigcirc$  cvvis  $\Rightarrow$  (\E[?12;25h] Makes the cursor visible again)