Subject: Re: A terminal emulator widget for U++
Posted by Oblivion on Fri, 20 May 2022 22:00:24 GMT
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Hello jacksonRIAB,

Just to give you some idea as to where TerminalCtrl stands:

This is somewhat old, but results (ratio) still hold and --in fact lot better--(I will update the results ASAP, after I merge the new optimizations...)

CPU: AMD FX 6100 - Black Edition (Six-core processor)
Memory: 8 GiB, DDR-3 1800 Mhz
Storage: 128 Gib SSD, 1Tib HDD
Graphics: AMD Radeon R7 240, 2GiB
Monitor: LCD, HD (1080p)
OS/Kernel: Arch/Linux 5.9 (x86_64)
Desktop: GNOME 3.36 (X11)
Framework: Ultimate++ 2020.1 (alpha)
Flags: GUI
Compilers: GCC 10.0.1 CLANG 10.0.0
Application: TerminalExample (with a high througput loop).

Disclaimer: The benchmarks below do not represent any competition.
they don't represent any weak spots of the used terminals.
The sole purpose of these benchmarks is to give an idea as to where
the Terminal ctrl's "engine" performance stands ATM.

Note: All benchmarks are repeated 50 times, automatically.
The performance difference between GCC/CLANG builds is negligeable.
The latest stable versions of these terminals are used (as of May-June 2020).

Results of command: "time find /usr", Total files: 415897, page size: 237 x 55, Monospace Font)

Terminal Emulator	real	user	sys	Notes
Alacritty	0m3,776s	0m1,134s	0m2,637s	Scrollback buffer size: 64k
Terminal ctrl	0m4,126s	0m1,202s	0m2,466s	Scrollback buffer size: 64k
Kitty	0m5,608s	0m1,224s	0m2,763s	Scrollback buffer size: 64k
Gnome Terminal	0m6,785s	0m1,243s	0m3,015s	Scrollback buffer size: 64k
xterm	0m24,368s	0m1,661s	0m3,766s	Scrollback buffer size: 64k

Terminal Emulator	real	user	sys	Notes
Simple terminal (0.8)	0m3,791s	0m1,162s	0m2,533s	Has no scrollback buffer.
Terminal ctrl (0.3)	0m3,971s	0m1,120s	0m2,472s	Scrollback disabled.

Terminal Emulator	real	user	sys	Notes
Terminal ctrl (0.3)	0m4,380s	0m1,479s	0m2,536s	localhost, Scrollback buffer size: 2000 lines, no compression, (SshTerminalExample is used)
PuTTY (0.73)	0m40,828s	0m1,354s	0m3,071s	localhost, Scrollback buffer size: 2000 lines, no compression

// Vte-bench, benchmark 1: scrolling. page size: 237 x 55, Monospace Font.

Terminal Emulator	real	user	sys	Notes
Alacritty	0m1,936s	0m0,001s	0m0,946s	
Kitty	0m2,985s	0m0,000s	0m0,567s	
Gnome Terminal	0m3,758s	0m0,001s	0m0,940s	
Terminal ctrl	0m4,064s	0m0,000s	0m0,859s	
Simple terminal (0.8)	0m4,623s	0m0,000s	0m1,105s	
xterm	0m47,249s	0m0,000s	0m0,567s	

// Vte-bench, benchmark 2: alt-screen-random-write, page size: 237 x 55, Monospace Font.

Terminal Emulator	real	user	sys	Notes
Alacritty	0m1,520s	0m0,000s	0m0,554snear-real-life,	
Kitty	0m2,750s	0m0,000s	0m0,408s	
Gnome Terminal	0m3,153s	0m0,004s	0m0,726s	
Terminal ctrl	0m3,790s	0m0,000s	0m0,474s	
Simple terminal (0.8)	0m7,097s	0m0,001s	0m0,825s	
xterm	0m19,797s	0m0,001s	0m0,993s	

// Vte-bench, benchmark 3: scrolling-in-region, page size: 237 x 55, Monospace Font.

Terminal Emulator	real	user	sys	Notes
Alacritty	0m3,337s	0m0,001s	0m3,297s	
Gnome Terminal	0m5,280s	0m0,001s	0m3,254s	
Kitty	0m6,326s	0m0,001s	0m6,034s	
Terminal ctrl	0m6,739s	0m0,001s	0m4,033s	
Simple terminal (0.8)	0m7,844s	0m0,001s	0m7,348s	
xterm	3m36,599s	0m0,001s	0m11,011s	

If you need help with TerminalCtrl, or have any questions, please let me know.

Best regards,
Oblivion