
Subject: : AmigaOS4

Topic: : SSH client for AmigaOS with builtin terminal emulation

Re: SSH client for AmigaOS with builtin terminal emulation

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Date: : 2019/11/13 18:19:14

URL:

Resizing of the terminal window is now mostly supported. What is missing still is code to request a new size from the remote host.

In implementing this I ran into a few problems that should be fixed now.

First off GM_LAYOUT which notifies the termgclass that it now has a new size is called from the context of input.device even if LAYOUT_DeferLayout is TRUE. This caused problems with the newlib memory allocation routines because they rely on the pr_CLibData field which does not exist for a task. After trying a few different workarounds the easiest solution I found was to just use a custom memory allocator, which for now is based on dlmalloc (same as newlib.library one) but a little simpler.

One of the other solutions I tried was to use clib2-ts, but clib2's UTF-8 support is too lacking and it made the executable a lot bigger, so I scrapped that idea.

The other problems were cosmetic in that libtsm would add empty lines when the window was made bigger, when it could have simply moved in lines from the scrollbar buffer, and also when the window was made smaller these empty lines would not get removed resulting in unnecessary scrolling.

I've fixed those problems as well now, however it took a very long time as I made quite a few mistakes along the way and every time it would crash it would hard lock the computer without producing any useful GR or stack trace because the crashes were in GM_LAYOUT on input.device context.