CWMM & TimidityMCD

Netlabs CWMM svn.netlabs.org/repos/cwmmclasses/trunk TimidityMCD

https://github.com/Greggk/MM-SOUND-TiMidity-MCD

CWMM Tools

- Visual age 3.08 compiler
 - Nothing else will work because it uses Direct to Som
 - The exes use to be built with EMX but now are also built with VAC
- Som Compiler (Som toolkit)
 - emitc.dll is broken toolkit version needs to be back leveled
 - https://hobbes.nmsu.edu/download/pub/os2/dev/tools/toolkits/SOMObjects_Toolkit_2-11.zip
 - ECS disk 2

CWMM Tools

- Kbuild make
 - Netlabs RPM repo
- IBM toolkit
 - Netlabs RPM repo
- Lxlite
 - Netlabs RPM repo

Libraries

- GBM.lib (only non-toolkit library)
 - https://hobbes.nmsu.edu/download/pub/os2/dev/runtimes/graphics/GBM 1-76.zig
 - Use the version in the lib.vac directory

Generate the SOM hh files

- somhh.cmd found in som\bin will generate these when run in som\include
- You need to set SOMBASE first
 - You can edit somenv.cmd in som/bin to fit your layout and run it.

Workplace Shell hh files

- wpabs.hh wpclsmgr.hh wpdataf.hh wpfsys.hh wppgm.hh wpshadow.hh wpfolder.hh wpobject.hh need to be generated somewhere in the include path
 - sc -%% -S100000 -shh -mnoqualifytypes -musexhpass d. path to idl file
 - Either generate them in toolkit\h or in the CWMM include directories
 - I generated them in the som\include directory by copying the idls there and running sommhh.cmd in that directory

Building

- Set the variables in LocalEnv.cmd.tpl rename it LocalEnv.cmd and run env.cmd
- Review make.inc (in the root) changing paths as necessary
- Run Make.exe and it should all build

Known issues and fixes

- It fails to play Icecast streams
- http://trac.netlabs.org/cwmmclasses/report/1
 - These are the outstanding tickets 5 or 6 of the "fit and finish" ones have been addressed
- CD Digital audio is now supported Thanks Lars
- Support modern video formats (requires installing FFMPEG or Mplayer/SMplayer)
- Got TimidityMDC working again
- Modified an existing config tool for the ini settings

CWMM INI Settings

- Players ini keys
 - CWMM->audioplayer
 - CWMM->aviplayer
 - CWMM->mpgplayer
 - CWMM->mp3player
 - CWMM->m3uplayer
 - CWMM->mvidplayer
- Editors ini keys
 - CWMM->audioeditor
 - CWMM->m3ueditor
 - CWMM->imageeditor
- They each take a string that is the executable file name (full path if not in PATH)

CWMM INI Settings 2

Ul ini keys

- CWMM->mmClsNoExtendedIconTitles->1
- CWMM->bNoPlayCtrlBlinking->1
- CWMM->mfldrMBoxDisplayTime-><time in milli seconds>
- CWMM->bNoMediaFolderTemplateShadow->1

Drive scanning ini keys

- CWMM->useNewImgClsFeaturesOnCD->1
- CWMM->mmClsDontCheckDrives-><drive list>
- CWMM->mmClsDontReadID3OnDrives-><drive list>

Misc ini keys

CWMM->nomodvid->1

TimidityMCD tools

- Compilers and linker
 - GCC 9.2 (Netlabs)
 - cpp gcc gcc-c++
 - gcc-wlink gcc-wrc
- Make Utility
 - Kbuild-make
- Os2tk45
- git 🗢
 - git-core git-core-doc
 - perl-error perl-git

TimidityMCD Libraries

- libc-devel
- libcx-devel
 - exceptq-devel
- libstdc++-devel
- os2me
 - https://hobbes.nmsu.edu/download/pub/os2/dev/libraries/multimedia/MM4EMX_1-1.zip
 - EMX developer kit
 - Use the os2me.a library

Building TimidityMCD

- Open SH in the root run ./configure
- Don't run automake
- Run MCD.cmd after editing it to make the paths match your layout. Usr\include must come before toolkit\h.
- Run Make
- To build the installer cd warpin and run Build_Timidity.cmd

Problems with getting it to work

- Timidity caused a restart of the desktop but no popup log entry and no trap dump. How to debug?
- Inability to get logging to work
 - This occurred when building with emx
 - Finding and opening files didn't work
 - Solution build with gcc 9.2 & add PMPrintf
 - Adding PMPrintf required generating an a.out import library (PMPrintf.a) using emximp [-m] -o pmprintf.a pmprintf.lib
- Couldn't find its config file.
 - Add an environment variable it could query to get the path
- Finally got a trap dump of sorts and determined there was a stack overflow
 - Enlarged the stack and it works

Installing

- TimidityMCD-2-10-4-1.wpi
 - Place timidity_eawpats_r12.wpi in the same directory to install eawpats which are actually what creates the sounds
 - http://www.altsan.org/programming/ports/
 - The installer runs the multimedia installer and modifies config.sys
 - Don't open Multimedia Setup until after a reboot
 - Go to Multimedia Setup it should contain a sequencer tab. Select the tab and check the box Default sequencer. A desktop restart may be needed
 - Open the sound folder and double click on a midi and it should play

Thank you

- Contributors
 - Lars Erdman
 - Steven Levine
 - Alex Taylor
- Questions