Memoirs of a Programmer: My OS/2 Software

by Alex Taylor

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About Me

- ❖ B.A. Computer Science (1998), M.M.D. Media Design (2015)
- Worked as:
 - OS/2 LAN & workstation support at major Canadian insurance company
 - Unix (Solaris) system administrator
 - Lotus Domino administrator
 - English teacher at Japanese elementary and junior high schools
 - Independent software and UI developer/consultant
 - ★ TBA ;-)



Early OS/2 Development

- Joined eComStation volunteer development team as a UI consultant for version 1.0
- Wrote a simple utility to view/extract ZIP files and other archives (Archive Viewer 1.x)
- Learned enough REXX to begin contributing to eCS 1.1 installer development
- Learned enough PM to write a simple volume manager for the installer (MINILVM 1.x)
- Completely rewrote installer backend for eCS 1.2 (still largely in use today)

My OS/2 Software

In general, I write programs that I decide I need.
(Or else because of some momentary burst of interest.)

Home page: http://www.altsan.org/

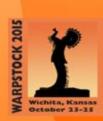
Github: https://github.com/altsan/

E-mail: alex@altsan.org

I will try to respond to questions/feedback/requests...

...but I am very bad at answering e-mails.

(Send me a polite reminder if necessary.)



Various Utilities

- Archive Viewer (the one that started it all)
- UniClock Unicode-capable world clock application
- Text encoding & conversion tools:
 - DBCSMap Unicode and DBCS-aware character map
 - ConText convert text between encodings
 - IMERJ very primitive Japanese input utility



Installation & Configuration Tools

- MINILVM simplified install-time GUI for LVM
- TCP/IP Profile Manager manage multiple IP configurations
- NAPS replacement for MPTS configuration GUI
- LANInst installer for LAN Server on OS/2 clients
- MyIP report your external IP address
- InstFont install a font from the command line
- eComStation Remote Install tool
 - Arca Noae package manager (YUMIE)

Printing

- CUPS Wizard simplify installation of CUPS printers
- PM Printer Manager unified printer control panel
- EPRINT.EXE enhanced PRINT command supporting USB and network-attached printers
- PSPRINT.DRV replacement for PSCRIPT.DRV (and maybe ECUPS.DRV & ECUPS-HP.DRV)



Font Support

- FONTNAME & FONTINFO
- FreeType/2 IFI version 1.3x
 - ♦ Inherited from KO Myung-hun and Michal Necasek
 - Added/improved a few features and fixed some minor problems
- FreeType/2 IFI version 2.x
 - Rewrite based on FreeType library v2
 - ♦ Now supports OpenType (OTF) fonts
 - Unfortunately, stuck in beta because of bugs :-(



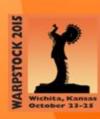
Some Wishlist Items

- Modern update or replacement for XCenter
- Unicode-capable MLE control for PM (e.g. for PMMail)
- Japanese IME based on open-source engine (Anthy, FreeWnn, etc.)
- Rewritten Archive Viewer based on ARCHIVER.BB2 with individual file manipulation
- OS/2 bitmap font support for FreeType library



My Usual Development Environment

- C
 - Presentation Manager API for graphical programs
 - IBM C Compiler 3.08 or 3.65 or GCC 3.x/4.x (depending)
- Watcom VX-REXX
 - Usually plus my own custom controls (VROBJEX)
- Standard REXX (not Object REXX)
- Have also done a few things in Java (but not recently)
- Preferred text editor: MED

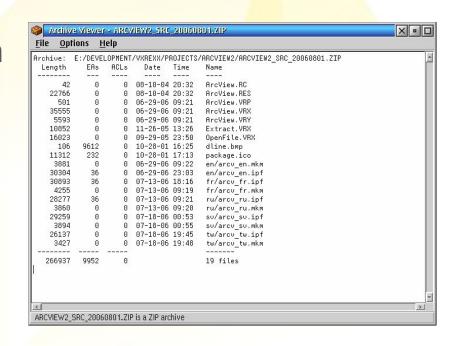


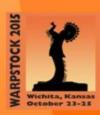
A Look At Selected Programs



Archive Viewer

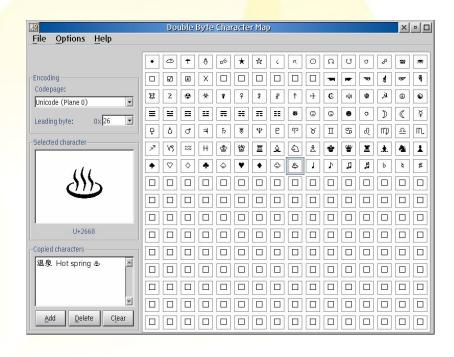
- Included in eComStation since v1.x.
- Deliberately crude and limited in features.
- GPL; latest is available from my website.
 - Now supports
 extracting and/or
 viewing individual files.





DBCSMap

- Character map for Unicode and selected DBCS codepages.
- Characters are sorted by codepoint (in blocks of 256).
- Can copy multiple characters to clipboard.

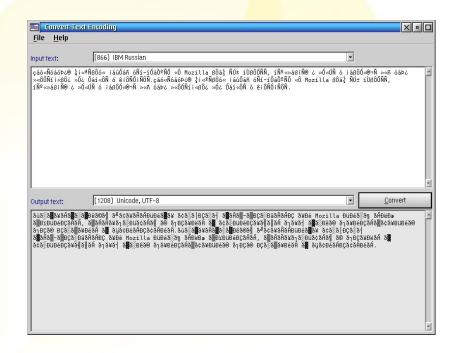


Text is copied in both Unicode and plain text clipboard formats.



ConText

- Simple tool to convert text from one encoding or codepage to another.
- Supports Unicode conversion and clipboard copy/paste (not display).





Universal Clock

Alternative to eCSClock, WorldClock, etc.

Central Europe	02:12 pm
Eastern	8:12 am
Pacific	5:12 am
UK	1:12 pm

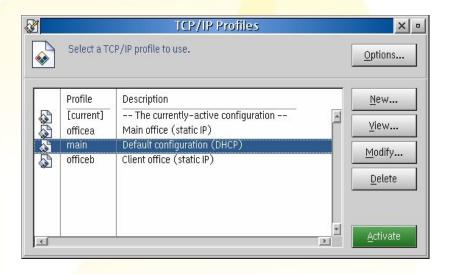
- UniClock program is just a simple container for the clock panels, which are instances of a custom PM window class, 'WTDPanel'.
 - WTDPanel is designed to be embeddable in applications (e.g. as XCenter widgets).
 - Each WTDPanel supports large and small display modes, presentation parameters (font/colour), etc.



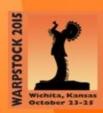


TCP/IP Profile Manager

- Allows the user to set up different TCP/IP configurations, and switch between them as needed.
 - e.g. DHCP for home and static IP for work.

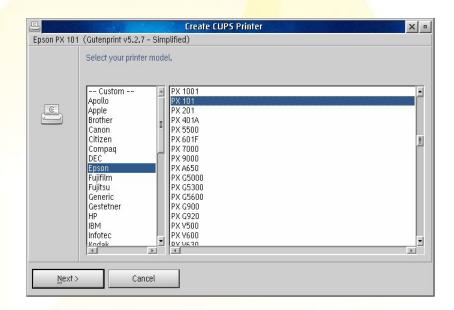


Not designed to enable/disable physical interfaces (like WiFi) but can change the current IP configuration on all active interfaces.



CUPS Wizard

- Simple wizard for creating CUPS-based OS/2 printers.
- Easier and faster than web admin GUI.
- Automates creation of corresponding desktop printer object + queue.

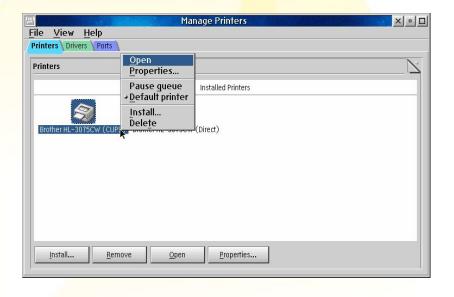


Automatically 'cleans' PPD files before importing.



PM Printer Manager

- Unified printer manager; designed to replace:
 - ♦ InstPDR
 - ♦ eCSPrint
 - PRNDRV (at least in many cases)
- 'One stop shop' for managing both 'normal' and CUPS printers.



Still TODO: fully integrate CUPS printer management (setting options, etc.), and maybe fully replace CUPSWIZ as well.



PSPRINT.DRV

- Enhanced replacement for the OS/2 PostScript printer driver (PSCRIPT.DRV).
- Includes all fixes from ECUPS.DRV plus several others.
 - Does not include ECUPS workaround for printed equations in WordPro.
- Supports TrueType font embedding.
 - ♦ Improved quality of printed text.
 - Better compatibility with PDF converters.
 - Often results in smaller file sizes, and faster spooling/printing.

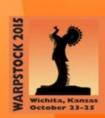


FreeType/2 IFI

- Replacement for OS/2's TrueType font driver (TRUETYPE.DLL) that improves on-screen text quality.
- Version 1.3 (FREETYPE.DLL)
 - ♦ Based on the FreeType library version 1.x.
 - ♦ Earlier versions written by Michal Necasek and others.
 - 1.3 adds several configuration options, improves DBCS font support, and provides a workaround for certain printing problems in OpenOffice.
- Version 2.0 (FT2IFI.DLL)
 - Rewrite based on the FreeType library version 2.x.
 - Adds support for OpenType fonts (.OTF) including enabling their use in OpenOffice and Mozilla.
 - Stuck in beta due to some bugs I can't figure out. :-(

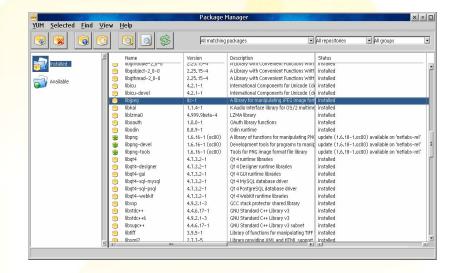


And Now... A Special Preview



"Arca Noae Package Manager" (name TBA)

- Native graphical interface for managing software packages.
 - First release supports YUM/RPM repositories and packages.
 - Support for WarpIN is planned.
 - Includes features for Arca Noae subscription offerings (like access to protected repositories).
 - Provides a user-friendly way to install YUM/RPM.





Questions?

