

Warpstock 2004



Event Guide



Serenity Systems International
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Schedule

Thursday

	Room 3	Room 4	Room 7	Room 8
7:30am-8:00am	Registration / Mixer			
8:00am-12:00pm	CL-07 C/REXX partnership: calling REXX from C and calling C from REXX	CL-14 sVista Installation and Operation Workshop	CL-01 Building Applications with VisualAge C++ Visual Builder	CL-12 Wireless Networking with OS/2
12:00pm-1:30pm (12:00-13:30)	Lunch			
1:30pm-5:30pm (13:30-17:30)	CL-13 eCS Installation Workshop	CL-08 Disk partitioning, LVM and filesystems used with OS2 and eComStation	CL-01 VisualAge C++ Visual Builder <i>continued</i>	CL-09 Mozilla Based Content Management for your website
6:30pm (18:30)	Dinner at the Trail Dust			

Friday

	Room 3	Room 4	Room 7	Room 8
7:30am-8:00am	Mixer			
8:00am-12:00pm	CL-14 sVista Installation and Operation Workshop <i>repeat</i>	CL-10 Setting up GCC, tools, and utilities	CL-01 VisualAge C++ Visual Builder <i>follow-on questions & answers</i>	unscheduled
12:00pm-12:30pm (12:00-12:30)	Lunch			
12:30pm - 1:30pm (12:30 - 13:30)	exhibits			
1:30pm-5:30pm (13:30-17:30)	CL-13 eCS Installation Workshop <i>repeat</i>	CL-12 Wireless Networking with OS/2 <i>repeat</i>	CL-11 Tutorial on the SQL Database, with PostgreSQL	unscheduled
6:00pm (18:30)	Bus leaves for downtown at 6:00PM and 7:00PM Bus leaves downtown at 10:00PM and 11:00PM			

Saturday

	Room 3	Room 4	Room 7	Room 8
7:30am-8:00am	Mixer			
8:00am-9:30am	Open Office			
9:45am-11:15am	DEM-01 Demonstration of DFSee, The Swiss Army Knife of drive partitioning	ADV-01 Supporting Netlabs	OPS-03 The open source PostgreSQL database	GEN-04 eCS Roadmap
11:15am-12:15pm	Lunch			
12:15pm - 1:45pm (12:15 - 13:45)	exhibits			
1:45pm-3:15pm (13:45-15:15)	ADV-01 Supporting Netlabs <i>repeat</i>	NET-02 OS/2 and Novell NetWare Integration	OPS-03 The open source PostgreSQL database <i>repeat</i>	DEM-02 Demonstration of CSSDir, a powerful directory sifting/sorting tool
3:30pm-5:00pm (15:30-17:00)	Innotek Announcement <i>Product Demonstration</i>	GEN-05 sVista Roadmap	NET-01 Versatile Home Networking with OS/2	PRG-01 Parse Rexx - Exposed!
6:00pm (18:00)	Bus leaves for museum at 6:00PM Bus leaves museum at 11:00PM			

Sunday

	Room 3	Room 4	Room 7	Room 8
7:30am-8:15am	Mixer			
8:15am-9:45am	OPS-0S Odin	OPS-01 Exploring Mozilla	GEN-04 eCS Roadmap <i>repeat</i>	unschedule
10:00am-11:30am	GEN-03 HiFi Control Managing your music with OS/2	PRG-02 Writing GUI Apps in Rexx with DrDialog	DEM-03 Using Mesa2 to create a Salesbook and Cashbook for a travel agency	GEN-02 Was it broken before you started
11:30am-12:30pm	Lunch			
12:30pm - 1:30pm (12:30 - 13:30)	exhibits			
1:30pm-3:00pm (13:30-15:00)	OPS-0S Odin <i>repeat</i>	GEN-06 Warpdoctor Tutorial How to put content on the Warpdoctor site	Innotek Announcement Product Demonstration <i>repeat</i>	GEN-05 sVista Roadmap <i>repeat</i>
3:15pm-4:45pm (15:15-16:45)	Closing session			

Class Descriptions

CL-01: Building Applications with VisualAge C++ Visual Builder

Prerequisites

C or C++ programming experience.

Course Description

This class introduces programmers to C++ and the Visual Age IDE for version 4. The student builds working applications using the Visual Builder. In the process the student learns which controls are available, how those controls relate to the IBM Open Class User Interface Library, types of connections between parts and when to use each connection type. The students also learn how to build their own non-visual parts and use them in the application. Differences between version 3 and version 4 of the Visual Builder are pointed out.

Requirements

The student must come with a computer that has Visual Age C++ version 4 installed. (Copies of the compiler will be available for purchase in class.) A limited number of the books required for the course will be available for purchase at the class.

Instructor: D. G. Clark

CL-07: REXX/C PARTNERSHIP CLASS

Prerequisites

Rexx programming experience, C programming experience.

Course Description

This Class will give the details of interfacing to Rexx and C. Some of those details include: making your own DLL available to be called by any rexx script, getting read/write access to variables on both the C side and REXX side including stem variables from the memory pool, getting access to the command line exactly how it was entered instead of how C startup parses it with argc and argv which is many times undesirable. Also some tradeoffs with C versus Classic REXX and ObjectREXX will be noted as well as tools to build/compile.

Requirements

C compiler and OS/2 toolkit.

Why you should attend the REXX/C PartnerShip Class

Learn How to provide REXX access ...

- to the many available OS specific C API functions
- to the speed advantages of C
- for memory intense but efficiently crafted C code

Learn How to ...

- embed REXX source in C code to avoid users changing it
- obscure REXX source by embedding in C compiled code
- start writing Code that REXX but not C literate can use.
- leverage - Get the best of both the C and REXX worlds!

Come to realize ...

- here are SOME MORE extensibility hooks already available 'under the covers' in still the best OS, OS2/eComStation
- other environments do NOT have theses great hooks 'out of the box'.
- **with this knowledge you will be able to speed development of native eComStation apps to help GROW the eComStation base!**
- more leverage is possible when combined with a REXX GUI development tool, such as DrDialog, (see Douglas Clark's presentation later this week)

Instructor: Paul Curtis

CL-08: Disk partitioning, LVM and filesystems used with OS2 and eComStation

Course Description

This class will explain partition-tables, LVM-information structures, boot manager as well as several of the popular filesystems used with OS/2 and eComStation. It will concentrate on the way these are stored on the disk, and not so much on how they are used from and with the operating system by driver-software. Some of the structures will be shown and perhaps manipulated using DFSee.

Instructor: Jan van Wijk

CL-09: Mozilla Based Content Management for your website

Prerequisites

- Basic knowledge of HTML, Javascript
- An idea what PHP and XML are
- Basic understanding of a Client-Server-Concept

Course Description

Did you ever postpone an update to your website because you didn't feel like writing HTML? Using PHP and XML the time needed can be vastly reduced. Using Mozilla's XUL-technology can make things even better.

In this class, you'll learn how to handle XML with PHP4/PHP5 in a simple, easy way. Additionally the course will cover the development of a XUL-based Interface for your private Content Management System (CMS) using Mozilla and some Javascript.

Instructor: Arne Blankerts

CL-10: Setting up GCC, tools, and utilities

Course Description

This class will focus primarily on setting up GCC both versions 3.2.1 (including EMX and if there is interest 2.8.1) and 3.2.2 and OpenWatcom. As case studies we will setup Mozilla, Rdesktop (a Terminal Server client that runs on X), and Mary Amodeo's MrMessage (an native aim/icq client). We will delve into the various libraries that are needed for porting *nix programs and setting up and using cvs client. Depending on interest and time we will also explore setting up Odin and Everblue (Odin requires VACPP to build at this time).

Requirements

While not required, attendees are encouraged to bring their PC's or laptops. This will allow for review of specific problems and hopefully send attendees away with working, ready to go systems

Instructor: Andy Willis

CL-11 - Tutorial on the SQL Database, with PostgreSQL

Course Description

- Introduction: What is PostgreSQL, why you should use it, and how to get it and install it. PostgreSQL and SQL92/99/03 spec compliance.
- Basic relational theory, and how to normalize your data.
- Basic SQL syntax, DDL (Data Description Language) and DML (Data Manipulation Language) This will be a large portion of the class.
- Bulk loading data into the database.
- The query planner.
- Tuning the database engine for better performance.
- Scheduling backups.
- Q&A
- Also OS/2 REXX hooks back into PostgreSQL may be discussed.

Requirements

We recommend you download and install PostgreSQL for OS/2 and begin to get familiar with it.

Instructor: Scott Marlowe

See "Scott Marlowe" on page 14 for more information about Scott.

CL-12: Wireless Networking with OS/2

Course Description

This 1/2 day class will begin with a general overview of the current state of wireless networking, with a focus on what technologies are available for OS/2, as well as planning and implementing a basic wireless LAN. As part of this overview, we'll cover:

- OS/2 hardware support on the client side, including the current state of device driver development
- Planning a wireless LAN (WLAN) or WLAN segment
- Completing the initial hardware setup
- Questions & answers

Once the initial hardware setup is complete, we'll move on to the second part of the class, which will focus on implementing security and troubleshooting things that can go wrong after the initial install has been up and running. Topics of discussion during this part will include

- Security options available under OS/2
- Avoiding channel overlap with adjacent Wi-Fi networks
- Extending signal to "dead" areas
- Public hotspot tips & traps

Instructor: Lewis Rosenthal

has been active professionally in the IT field since 1987. His experience with OS/2 dates back to version 2.0, which became the first OS/2 workstation OS rolled out in his accounting & systems integration firm of Rosenthal & Rosenthal. His experience with NetWare began in 1990, with NetWare 2.15c, and continues today, with NetWare 6. He earned his CNA on NetWare 4.11 in 1998, a second CNA in NetWare 6 in June of this year, and continues to complete certification requirements for his CNE.

Rosenthal & Rosenthal's IT practice consists mainly of small NetWare networks of five to thirty stations, and encompasses a broad range of networking topologies and wide area networking technologies. The firm specializes in connecting OS/2, Windows NT/2000, and Linux clients to NetWare networks. In late 2003, Rosenthal & Rosenthal formed a strategic alliance with Angel Wireless, Inc. to deploy managed Wi-Fi hotspots in the Long Island, NY area.

As the maintainer of the OS/2 Wireless Networking mailing list & as an IT consultant, Lewis has not only gleaned some useful experience planning, implementing, and maintaining wireless LANs and LAN segments, but he has also had access to some very knowledgeable people in the area of OS/2 and wireless networking.

CL-13: eCS Installation Workshop

Course Description

A 4 hour workshop where hands on installation issues are solved. Bring your PC and get eCS installed and humming

Instructors: Roderick Klein, Alex Taylor, Chuck McKinnis

CL-14 - sVista Installation and Operation Workshop

Course Description

This 4 hour class covers the installation and operation of sVista

Instructor: Robert Henschel - 6PAC Company

Presentation Descriptions

ADV-01: Supporting Netlabs

Netlabs is Open Source Software for OS/2 and eCS

netlabs.org was founded in 1997 with the goal of creating a center for free OpenSource Software for OS/2 and also eComStation (eCS). Today netlabs.org is one of the largest developers of OS/2 software outside of IBM itself.

With its many ground-breaking projects, netlabs.org has won a name for itself in the great OS/2 and eCS Community.

We port software and device drivers from Linux and other operating systems to OS/2, we are working on a very promising Win32-implementation for OS/2 and are developing a library which will allow the use of X-Applications on OS/2 PM. We have lots of other great projects, so check us out!

Our developers live all around the globe and because they all love the OS/2 Operating System and believe it has a great future, they are all working for free!

Netlabs is sponsoring programmers on projects around the world that produce software for OS/2. This allows programmers to work on OS/2 related projects full-time, thereby bringing the product to market much sooner than if it was developed only on a spare-time basis.

This presentation is about how you can help Netlabs sponsor projects/programmers and thereby get the OS/2 applications you want and need faster.

DEM-03: Using Mesa2 to create a Salesbook and Cashbook for a travel agency

Originally done by hand on paper these spreadsheets started in DOS Lotus 123 and were ported to SuperCalc5 and eventually Mesa2. Salesbook and Cashbook (for a travel agency) have gradually evolved over eighteen years as the business grew. This session will show an integrated collection of spreadsheets that are structured to meet the requirement of Canadian and Ontario legal and tax reporting requirements. Supporting dual, Canadian and American currencies these sheets rely heavily on Mesa2 scripts to ease the process of maintaining accounts and commissions receivable. Session attendees will be taught the use of primary and secondary data entry, script creation and execution, and how to create formulas across multiple sheets to track expense accounts monthly and yearly.

A CDROM will be distributed with notes, sample MESA2.M2 files and a demo version of MESA2.

Edgar Scrutton

Edgar (BA York'66) (MA Windsor 78) has retired from 32 years of teaching Guidance, Special Ed, Reading, Math, Computers, and Family Studies at General Amherst High School. He now 'works for his wife' as IT expert and bookkeeper-accountant at Allison's Travel Agency in Windsor, Ontario. He has used OS/2 since 2.0 and programs in Basic, Turing, C++ and Rexx. OS/2 is the server of choice at Allison's.

Gen-02: Was it broken before you started?

From the beginning, OS/2 installation and maintenance was rather easy as long as you had attended the IBM OS/2 Installation and Maintenance class and had at least 5 years of experience with the product. Serenity Systems has made tremendous strides in easing the installation, and maintenance is either a piece of cake or living hell. You are invited to an overview of the eComStation Maintenance Tool and an update on its use. We will also be discussing maintenance issues in general as well as answering any questions you might have concerning the maintenance of OS/2 systems. Thoughtful arguing is permitted and encouraged.

Chuck McKinnis

retired from IBM in 1992 after 26 years as a systems engineer in large systems and communications. He has a private consulting practice and is the New Mexico Location Manager for DSG, an IBM Premier Business Partner. He is the author of the eCS Maintenance Tool, NICPAK, and a contributor to RexxAutoStart. He has been an OS/2 user since the beta days of 1989 and has programming experience with Rexx that goes back to the first release of Rexx by IBM.

GEN-03: HiFi Control -- Managing your music with OS/2

This presentation describes an OS/2 based music server system. DB2 is used to store and search all the album titles, track titles and artists. Lyrics can also be indexed and are searchable. REXX code interfaces with the internet FREEDB cd information service to retrieve title and track information when new CDs are acquired. A java applet lets you build playlists and save playlists.

More than just a music search system, it actually controls up to 16 Pioneer CD changes, each capable of holding 300 CDs. (Currently 3 are installed.) In addition, two "Audiotrons" by turtle beach are also controlled by the system and allow music to be stored on the hard drives (currently 1 terabyte installed) and played via an ethernet LAN and fiber optic cable (toslink) through the main Hi Fi system.

The system interface is through HTML protocol, so any web browser on the LAN can search and play music through the home stereo system. A javascript program highlights what track is currently playing. You can also play an album by scanning the case with a bar code reader.

Chuck Berghorn

A former Senior Technical Staff Member at IBM, Chuck has worked on a number of OS/2 based products, including P/390, S/390 Integrated Server, Multiprise 3000, and the 2074 communications controller. He is currently a senior architect with an EDA company, and but still uses OS/2 at home for most of his computing needs. Chuck has been involved with the IBM operating system VM/CMS for years and was a very early REXX user. He has created special interfaces between REXX and PL/I (one of his favorite programming languages) and designed a documentation system that used the REXX subcommand interface as its primary command processing environment.

GEN-04: eCS Roadmap

Come hear the directions that Serenity is planning on taking eComStation. Hear about the new features in upcoming releases.

Roderick Klein

Roderick has been programming his butt off on eCS for years. He also keeps MenSys's web site humming, and Roderick is the president of VOICE. If that isn't enough, Roderick, having been inspired by John Candy, is traveling the country on planes, trains and automobiles (well - Greyhound actually.)

GEN-05: sVista Roadmap

Come hear about the future of sVista - where it is going and what new features it will have

Robert Henschel

Robert works for 6PAC Consulting AG

GEN-06: Warpdoctor Tutorial

Learn how to put content in the Warpdoctor site. This presentation will show you put information about hardware and software on Warpdoctor, how to add documents and publications, links to other important OS/2 sites, etc. We will cover uploading files, types of HTML tags allowed, putting images in your text, creating cross references to other items in the site, etc.

D. G. Clark

Douglas Clark is part of the Warpdoctor project team building the Warpdoctor site.

NET-01: Versatile Home Networking with OS/2

A discussion on creating a home network that centralizes data storage and printers, but allows for easy point-to-point communications. Topics include setting up a variety of TCP/IP services, communicating via an ISP (NAT), security, and safety (Anti-Virus & backup) including connecting OS/2 and eComStation to a windows network. Also a discussion on using Injoy's FX firewall, which ships with the dialer.

Dr. Christopher M. Clayton

NET-02: OS/2 and Novell NetWare Integration

As Novell has discontinued development of the OS/2 NetWare Requester while moving forward with newer releases of the NetWare operating system, something of a "how-to" void has been created among users of both of these systems. This 90-minute presentation shall attempt to address many of the concerns users and administrators have when dealing with the two operating systems on the same wire.

Topics to be addressed include:

- Current state of the OS/2 NetWare Requester, including an overview of the latest patches available
- Installation & configuration of the requester on an OS/2 or eCS workstation, with an eye toward potential traps & pitfalls
- Techniques for automatic & semi-automatic login, including wireless options

- Survey of OS/2 functionality under different versions of NetWare from 3.12 through 6.5
- Managing NetWare servers from OS/2 stations: what's possible & what isn't
- Printing under NetWare (traditional vs NDPS configurations)
- Workstation backup options in a NetWare environment
- Newer NetWare client functionality under OS/2 (iPrint, iFolder, etc.): what works? how?
- A new NetWare client? Can this be done?
- Support options

Lewis Rosenthal

See "Instructor: Lewis Rosenthal" on page 7 for the low-down on Lewis.

PRG-01: Parse Rexx - Exposed!

PARSE is arguably the most powerful keyword instruction in Rexx (aside from INTERPRET, of course). The PARSE template allows you to process strings by words, columns, search strings, or any combination of them all. Such power usually comes at a price; many Rexx programmers are intimidated or confused by the more complex templates. This presentation will use many examples to step through increasingly complex templates, demonstrating the simple yet elegant structure beneath. By the end of the hour, there won't be a PARSE template that will stump you.

Chip Davis

Chip learned to program on an IBM 1620 in 1963. For most of his career he was a systems programmer on IBM hardware, but has spent the last 15 years teaching OS/2 and VM internals, as well as Rexx and Assembler programming. He was one of the authors of the ANSI Standard for Rexx and currently is the Rexx Project Manager for SHARE and President of the Rexx Language Association. Whenever possible, Chip flies his own plane to class locations.

PRG-02: Writing GUI Apps in Rexx with DrDialog

DrDialog is a freely available tool that can be used to write graphical user interface (GUI) applications with Rexx. The GUI application can either be distributed and run with a run-time, or packaged into a stand-alone executable that does not need any DLLs.

This presentation discusses how to build applications in DrDialog and how to package those applications for distribution. Topics covered include

- Philosophy of the tool - the zen of DrDialog
- PM controls available in DrDialog
- Execution model
- How to attach Rexx code to GUI events
- The differences between Rexx event code and Rexx global procedures in DrDialog
- Capturing events that don't have a tab in the DrDialog notebook

- Limitations and bugs in DrDialog

Douglas Clark

Doug has been slaving away on DrDialog for the Warpdoctor for what seems like decades.

OPS-01: Exploring Mozilla

Mozilla is a lot more than just a Browser. Lots and lots of extensions and options provided for the ultimate internet application are waiting to be used and tested. This presentation will show you how to get the best out of the beast, what extensions are available and how one can install them.

For the experienced crowd, a short visit to the power off XUL, the Mozilla GUI language, will show how even you can create your own extensions and thus add the feature you've always been waiting for.

Arne Blankerts

Arne works with Mozilla designing applications for his work.

OPS-02: Odin

Odin is essentially a subsystem that allows win32 programs to run in OS/2. Windows programs can be easy to obtain but OS/2 programs are much more difficult to get, Odin is a way to make some of this available to the OS/2 user. Odin is similar to emx in this regard with the exception that emx requires *nix programs to be recompiled using emx, Odin does not require that programs be recompiled. Odin can also be used to port applications in the same way as emx is used.

This presentation is to show the potential of Odin, how it can be employed, how to set it up and how to install applications and some of the limitations. There will be some discussion on ways to help with the Odin effort and how to ask for assistance. We will also discuss Odinated applications such as Opera, the Innotek applications and win32prn. Part of the presentation will include tips on how to deal with Registry settings and odin.ini settings. We will also look at some of the apps that work (such as RealPlayer) and ones that don't. This analysis may give you a good feeling whether an app is likely to work or not with ODIN.

Andy Willis

Influenced by his dad, Andy started with PCs and the TRS-80 at age 10. At that time there wasn't much in the way of games so he began playing with BASIC and learned his way around computers. After taking a college Fortran Class in '90 or '91, he bought a Microsoft Fortran compiler, and was curious about the included OS/2 libraries, but had no idea what OS/2 was. A year or two later he bought a new pc that had win 3.11 on it and quickly disliked windows. His instructor also disliked windows and mentioned OS/2. From a CDW magazine he ordered and installed 2.11, and later 3.0 and 4.0. In 1998 he worked at a OS/2 help desk. He is a contributor to VOICE tips and Odin news group (compiling and uploading Odin), also a minor contributor to Mozilla and has written an installer for GCC 3.2.1 (found on Hobbes).

OPS-03: The open source PostgreSQL database

- Introduction to PostgreSQL the database. It's history and philosophy, how it got to where it is, and where it is currently going.
- Theory of Operation.
- PostgreSQL features, such as user defined functions, triggers, rules, domains, etc.
- # PostgreSQL mis-features, the parts of PostgreSQL that tend to cause beginners the most problems (vacuuming, no predicate locking, etc.)
- Options for using PostgreSQL with OS/2.
- Status of the OS/2 port and the PostgreSQL main branch
- Comparison of PostgreSQL to other databases.
- PostgreSQL support options

Scott Marlowe

Scott has been programming computers since 1980 when his father bought him a Vic-20. His first serious programming was done while in the Air Force at Lowry Air Force Base in Denver in 1985 when he wrote the classbook program that would eventually be used throughout the Air Training Command to maintain all the grades of all the students in every course. At the time of his leaving in 1992 the program was still widely in use.

In 1995 he returned to the work force as a system administrator, but within a few years grew bored and returned to his first love, programming. He built the corporate intranet server of a large information company with PostgreSQL as the backbone of that system, and became active on the postgresql mailing lists as an administrator and user.

DEM-01: Demonstration of DFSee, The Swiss Army Knife of drive partitioning.

This demonstration of CSSDir will show you how to:

- Sort by EA size, name, etc. over multiple directories, and/or drives which could include millions of files, easily and fast with CSSDIR.
- Limit files found by dates, include files that are of a given size, exclude files and directories.
- Change the layout of file details for views you want instead of what standard dir limits you too.
- Limit sub directories searches to a given depth, not all or nothing as regular dir does.
- Find duplicate files on your system.
- Produce multiple reports sorted differently in one pass and invocation.
- How to snap-shot your system to detect systems changes with CSSDIR. (time permitting)

See also: <http://www.curtissystemssoftware.com/cssdirMain.html>

Paul Curtis

Paul has been writing C programs for years, both applications and for embedded systems. Paul is also part of the Denver local event team for this year's Warpstock.