

A Pattern for Reusable RPG Code

Scott Klement, ScottKlement.com

You've learned all of the concepts of ILE, and this has given you a lot of new options. When you go back to the office, you find it's hard to use them! They just don't fit into the way you're accustomed to writing software. In your mind, you have a pattern for how programs should be written, and to use ILE effectively, you really need to learn a new pattern. This session discusses the new pattern of writing good, reusable ILE code.

Learning Objectives:

- Understand the "pattern" concept.
- Understand important concepts for writing modular RPG applications.

Audience:

RPG programmers who understand ILE concepts, but want to learn more about how to use ILE effectively.

ABC's of i5/OS System Management

Rich Sanfilippo, Barsa Consulting

Are you new to the System i (iSeries or AS/400)? Now that it is installed, where do you go from here? Has everything been configured correctly? What can you do to get the most out of your machine, and how will you know when there is nothing left to do but upgrade? This session will give you direction on managing your new AS/400. Initial setup, preventative maintenance, and operating system facilities will be covered, as well as simple tips and techniques for maximizing your system's resources, where to go for further information, and what other resources are available to assist you. This is not just a topic for beginners as it contains many unusual facts that are secrets to AS/400 veterans.

Accessing the Integrated File System (IFS) from RPG IV

Scott Klement, ScottKlement.com

RPG IV's ability to prototype C APIs opens the door to processing IFS files directly in RPG programs. This session will introduce you to the basics of opening, reading, and writing IFS files. You will also learn how to process directories, check for file accessibility and more. References for further study of these topic areas will be provided.

Advanced Features and Functions of Zend's PHP on i5/OS

Erwin L. Earley, IBM Corporation

This session will take a look at three exciting advanced capabilities and functions with Zend's PHP environment for i5/OS. We will start by taking a look at 5250 bridge. 5250 bridge facilitates the development of Web applications that can leverage the code logic of 5250 applications without change to the 5250 application. Another topic of discussion, Zend FrameWorks, will look at how the functions provided within Framework can be integrated into existing Web/PHP applications to integrate advanced functionality such as eMail and PDF generation, Google application integration, and RSS data feeds. We will also take a look at how Zend Platform can be used to move your PHP solutions into a application server environment through smart object caching, event triggers application profiling, and other features. Many code examples will be presented throughout the presentation.

Backup/Recovery Strategies Update

Debbie S. Saugen, IBM Corporation

A complete backup and recovery strategy is key to any business. Learn what you need to know to update your backup and recovery strategy for Logical Partition (LPAR) systems, Hardware Management Console (HMC), Lotus Notes and Windows Servers, Linux, AIX and IBM i in a partition, and the use of Independent ASPs. New support for backing up spooled files and performing a backup of the system data in a non-restricted state will be covered. IBM i 6.1 provides great new enhancements for logical/physical file system recovery and SWA synchronization for libraries and IFS. This session also takes you through example backup strategies and the steps needed to recover your system after a system failure or disaster.

Learning Objectives:

- Describe simple, medium and complex backup and recovery strategies.
- Choose the best back and recovery strategy for your environment.
- Learn and understand the process for performing a complete system recovery.

Audience:

Anyone responsible for designing, implementing, running or managing a backup and recovery strategy on IBM i.

Best Practices for Security - Why You Need to Run at a High Security Level

Jeff Uehling, IBM Corporation

This presentation will cover the best practices necessary to secure your system. The presentation will discuss why you need to run at security level 50, including examples of exposures that exist at the lower security levels, how to detect & prevent programs that could compromise security on your system, necessary system value settings and security recommendations when developing applications. If you are a system administrator or a system security officer, this session is a must for you to attend.

Learning Objectives:

- Overview of the many considerations related to securing your network and IBM i servers.
- Understand the need to run i5/OS at a high security level.
- Learn mechanisms necessary to prevent a number of security exposures on the system.

Audience:

This session is intended for system administrators and system security officers.

Beyond Query/400 - Introduction to DB2 Web Query for i5/OS

Linda Swan, IBM Corporation

Come and see what all the excitement and buzz is about. Come and see the product that will replace Query/400. DB2 Web Query is a robust, extensible, and productive reporting solution. It will provide reporting and graphing assistants as well as a WYSIWYG `painter`. DB2 Web Query will allow you to improve the look and functionality of your existing Query/400 reports. Would you like your Query output sent to a PDF file; what about to MS Excel? Would you like to see your existing reports formatted as graphs and charts? All this and more is possible with the new product. You can create new reports with slicing and dicing capabilities; you can enable your end users on the go to view and analyze their reports in disconnected mode. This session will include live demonstrations of creating reports, graphs and dashboards with this new product.

Building Wicked Cool Domino Web Apps

Mary H. Warner, New Millennium Technology LLC

While you can build some reasonably elegant web applications with the tools built into Notes and the Domino Designer, with a bit more effort, you can use HTML, DHTML, CSS and Javascript to transform your Domino web applications from plain and boring to more professional-looking applications which will perform better and provide a more pleasing user experience. Come to this session to see cool demos and to learn how you can incorporate technologies freely available on the internet to deal with the management and display of attachments, the display of help and message dialogs without extra popup windows, convert "@picklist" functionality to the web, and add a calendar / date picker to your apps. Walk through an example application demonstrating these techniques and more which will be available for download after the session. If you're tired of plain-vanilla web applications that you and your users find boring, this is the session for you! (While this session will build upon previous introductory sessions on Domino web application technologies and CSS, developers who already know how to create Domino web applications will benefit from techniques described in this session.)

Learning Objectives:

- Describe how DHTML can increase the usability of their apps and enhance the user experience.
- Understand advanced CSS and javascript techniques for automating the user interface.
- Incorporate freely downloadable internet example code into their Domino Web applications.

Audience:

Programmers and Analysts who want to take their Domino web apps to the next level of functionality, usability and provide their users with the best possible application experience.

Can You Hear Me?! Setting up Virtual Network for LPAR

Erwin L. Earley, IBM Corporation

As the amount of workloads on our System i continues to increase, it is becoming ever more important to understand how to leverage virtual networking to maximize system resources. This session will explore how the virtual networking features of System i and i5/OS can be used to build networks across all of the supported operating systems, i5/OS, Linux, AIX, and Windows. Specific topics in this session will include configuration of Proxy ARP and Network Address Translation to route network traffic to operating systems in Logical Partitions; understanding how to maximize the throughput of network traffic between virtual and physical networks; how to establish virtual network routing across multiple physical networks to achieve fault tolerance; and how to trouble-shoot the virtual network environment.

Learning Objectives:

- Create Proxy ARP interfaces that load balance and failover across multiple physical lines.
- Create NATed interfaces to hide virtual partitions behind physical partitions.
- Create Proxy ARP configurations to transport traffic from virtual partitions to the LAN via the hosting physical partition.

Audience:

All System i administrators, especially those with more than one partition.

Case Study: XML and RPG

Charles Guarino, Central Park Data Systems, Inc.

XML has quickly become a standard method of encoding data. It can be used for full document transmittals or data provided via a web service. The extraction of this data into useable information is called parsing. RPG provides two different methods for parsing. This session goes step by step through the entire process of receiving an XML document to successfully parsing it to a database file. The XML-INTO and XML-SAX statements will be reviewed. The challenges and requirements of both statements will be discussed. At the end of this session, you will be able to identify which parsing method works best for your particular situation. Included with this session are program listings that you can take back and put to use immediately.

Learning Objectives:

- Develop a basic understanding of XML syntax.
- Understand the functions of DOM and SAX parsers, and how they are implemented in RPG.

Audience:

Programmers who wish to parse XML documents or web services data directly from within RPG.

Cleaning Up Your System i Auxiliary Storage (Disk)

Larry Bolhuis, Arbor Solutions, Inc.

Disk space on your systems continue to expand and knowing what you have and how fast it's growing continues to be a challenge. With the advent of the IFS back in V3R1, tens of thousands of objects hide in there as well, adding to the challenge. Attend this session to learn techniques for determining what your disk consumption is and tools to use to clean up unused space. We will also discuss ways to balance disk arm usage and fragmentation.

Learning Objectives:

- What is using your disk space in traditional libraries and what can be done to manage and reduce it.
- What is using your disk space in the IFS and managing that space.
- How to balance your disks and de-fragment them.

Audience:

Those charged with administering a System i.

DB2 Web Query: Developer Workbench

Linda Swan, IBM Corporation

DB2 Web Query Developer Workbench is a rich client development environment. Developer Workbench includes the advanced report creation tool `HTML Layout Painter`. With Developer Workbench you can create dimensions for your OLAP reports. Advanced programmer tools in Developer Workbench include an SQL Wizard, a synonym editor, the capability to do some data profiling and data quality checking as well as an impact analysis tool. The session will demonstrate many of these features including how to take a six or eight character data field and transform it into a date for use in all your reports.

Deploying Open Source Solutions on IBM i

Erwin L. Earley, IBM Corporation

Ever heard of those cool open community applications and said "I wish I could run those in i5/OS" - well now you can! Support for MySQL as well as PHP on i5/OS provides the foundation of which to host a large collection of open community applications. This session will explore how to establish the components of the open source deployment stack in i5/OS and how to use that stack to deploy existing open source solutions such as SugarCRM. This session will also explore how you can integrate open source applications into i5/OS objects, such as user credentials, and how you can leverage HA environments for your open community application deployments.

Embedding SQL in RPG

Kevin Forsythe, DMC Consulting, Inc.

For RPG programmers, SQL provides a new mechanism for interacting with the database. Learn how to implement SQL instructions within your RPG programs. This session covers topics such as host variables, prepared statements, and error handling.

Everything About System Values (But You Were Afraid to Ask)

Rich Sanfilippo, Barsa Consulting

This session is a 2-hour overview of what a system value is and how it affects your system. Every i5/OS system value will be reviewed and the impact of changes to it will be discussed. System values added in Version 6, Release 1.0 will be covered in depth. This is a good session for the beginner and yet will be enlightening to the i5/OS veteran.

Learning Objectives:

Attendees will gain an understanding of how system values affect the operation of your system, the system value categories and how they work together within those categories.

Audience:

System administrators and application developers who are responsible for the security and operation of the system as well as the work management functions of the operating system.

Excel Spreadsheets from RPG with Open Source

Scott Klement, ScottKlement.com

Your business data is in RPG. Your users want Microsoft Excel. This session discusses how an RPG program can build and modify Excel spreadsheets by calling the POI Java classes.

Learning Objectives:

- Know when to use and when not to use POI to create spreadsheets.
- Create spreadsheets.
- Modify existing spreadsheets.

External Databases from RPG

Scott Klement, ScottKlement.com

Ever wanted to access an SQL Server from an RPG program? How about MySQL, Oracle or even DB2? Although some database manufacturers may not make drivers for i5/OS, it's possible to use Java's JDBC drivers from an RPG program.

Learning Objectives:

- Install JDBC drivers for use in RPG.
- Write RPG code to issue SQL statements against JDBC drivers.

Get to the Web Fast with System i Access for Web

Linda Hirsch, IBM Corporation

System i Access for Web is a member of the System i Access Family product. If you want a solution for your desktop users that does not require you to install or configure anything on any desktop, then Access for Web is what you are looking for! It enables end users to work with i5/OS resources fast and easily through a Web browser. This session will show you how users can run i5/OS applications, work with the database, get to printer output, and use the file system, and at the same time eliminate the need to roll out and maintain desktop connectivity software.

Learning Objectives:

- See how to run i5/OS applications (5250 sessions), upload and download database information, use the i5/OS system as a file and printer server -- all through just a browser on the desktop.
- Learn about converting spooled files to PDF and then print or email the resulting PDF.
- See how to work with printer output, run commands, send messages, download files and data, and more.

Audience:

This session is for administrators, consultants, or anyone who needs to know more about this product, and whether it will work in your business.

HMC, System i, FSP, Firmware: I Really Need to Understand All This

Pete Massiello, iTech Solutions

It's no longer just an AS/400. If you are using partitions or thinking about partitioning your System i, there are a lot of new concepts to understand. In this presentation, we will dissect what all the pieces are, how they connect to each other, and what you need to do to set them up. Come learn about components such as Hardware Management Console, the Flexible Service Processor, Advanced Systems Management Interface, the i5, firmware, and the role of SLIC in all this. You need to understand how everything fits together in order to manage them.

Learning Objectives:

- First understand the components: FSP, HMC, i5 hardware, and Licensed Internal code.
- Then know how they interact and their relationships.
- How to upgrade HMC and FSP.

Audience:

System Administrators.

Honey, I Shrunk My Backup/Recovery Windows! You Can Too!

Debbie S. Saugen, IBM Corporation

New hardware and tape technology in combination with software enhancements in Backup, Recovery and Media Services (BRMS) using Concurrent and Parallel Saves, Save-while-active and Online Lotus Server Backups are resulting in huge reductions to backup/recovery windows. IBM i 6.1 brings faster system recoveries if you have logical and physical files residing in different libraries. Learn how you too can dramatically reduce your backup and recovery windows!

Learning Objectives:

- Understand the bottlenecks for backup and recovery performance.
- Learn how both hardware and software can affect backup and recovery performance.
- Tips and techniques so you can improve your backup and recovery performance.

Audience:

Anyone wanting to improve their backup and recovery windows on IBM i.

IBM Rational Product Announcements for IBM i

Linda Cole, IBM Corporation

This session will provide details on the recent announcements from Rational on i5/OS development tools. Session will include information on the key Rational application development tools on i5/OS, including WebSphere Development Studio V6R1, Rational Developer for System i V7.1, Rational Developer for System i for SOA Construction V7.1, Rational Business Developer and HATS for 5250 Applications. It will also include overview of RPG V6R1 enhancements.

IP Addressing, Routing and i5/OS IP Configuration

Larry Bolhuis, Arbor Solutions, Inc.

In this session we will explain IP addresses, why they are needed, how they are formed and used. Next we will discuss IP routing and how that works. In the second half of the session we will discuss configuring IP on i5/OS. We will discuss virtual IP addresses, load balancing and routing. Finally we will discuss some of the TCP/IP servers that run in i5/OS such as everyone's favorite QZDASOINIT and how to make it behave.

Learning Objectives:

- Learn what IP Addresses are; how they are formed and used.
- Learn how IP Routing works.
- Learn how to configure IP in i5/OS, including virtual IP.
- Learn how to take advantage of Load Balancing and Network Redundancy.

Improving Performance and Saving Disk Space

Pete Massiello, iTech Solutions

What can you do to stop the wild growth of disk space, and also improve system performance? In this presentation, we will talk about ways to clean up our disk space and what you can do to improve performance. While the System i may manage itself in some areas and there are many optimization and cleanup techniques that are part of i5/OS, most shops don't spend the time and effort to implement them. We will learn the "tricks" that can help you reduce your disk I/O, reduce disk utilization, reduce memory faulting, and improve system performance.

Learning Objectives:

- Tricks to improving performance and cleaning up your disk space.

Audience:

System Administrators looking for some tips and tricks for improving performance and saving disk space.

Integrated Web Application Server for i5/OS - Removing excuses

Tim Rowe, IBM Corporation

Want to start running Web applications, but your system is too small? Is creating and administrating a Web server too complicated and confusing? Dealing with the maintenance too time consuming? Concerned that ASF Tomcat is being withdrawn from service? The Integrated Web Application Server for i5/OS is for you. The i5/OS integrated Web application server integrates a Web-servlet container into i5/OS. This Web container includes the basics for getting Servlet and JSP applications up and running quickly and effectively on the Web. The integrated Web application server is a good place to prototype new applications or to run existing small-footprint or low-use applications. You can consider the integrated Web application server as an entry point to the Web. Administration is easy and straight forward using the Web Administration for i5/OS graphical user interface (GUI). Since this Web container is part of the operating system, there are no additional products to install and maintenance is handled via i5 PTFs. Learn how this i5 friendly Web container can quickly and easily get you started on the road to the Web.

Intro to SQL

Kevin Forsythe, DMC Consulting, Inc.

This session introduces SQL to new users. Whether you are a novice or a veteran just starting to use SQL, this session will get you headed in the right direction. Learn how to create database tables, perform database maintenance and extract data from your new database. Also learn what SQL tools are readily available for you to use.

Introduction to Cascading Style Sheets for Domino Applications

Mary H. Warner, New Millennium Technology LLC

Do you ever get tired of going through dozens of forms because the end user wants different colored label text? Are the views in your Domino web application boring -- or even worse -- annoying to use? Does your application suffer from ugly tables? Come to this session to learn how the simple rules and tags offered by CSS allow you to easily control or change the look of your applications. Learn how to design the necessary pieces up-front which allow you to easily modify the look and feel of your web user interface. As a bonus, learn an important technique to easily combine CSS, a simple Notes form and one or more views to create elegant and easily configurable menus or button sets.

Learning Objectives:

- Describe how CSS can be used with Notes/Domino's built in elements to enhance the look of their web applications.
- Understand how to pre-plan their application designs to enable them to easily integrate CSS.
- Be able to create and use CSS style sheets to control and modify the look of their web applications.

Audience:

Programmers and Analysts who want to understand how the use of CSS can enable them to provide good looking web applications with more easily maintainable user interfaces.

Introduction to Web Development with Lotus Notes/Domino

Mary H. Warner, New Millennium Technology LLC

Domino web applications are a powerful way to extend both new and existing Lotus Notes applications. This session provides an introduction to the process of taking a Notes application and enhancing the design so that it is available to end users via a browser. Using the rapid application development capabilities of Domino Designer you will learn what Notes provides out-of-the-box and what you can do to get the most from forms, views, and other interface elements when displayed in a web browser. Learn the basics of how to make your application function and look great on the web. Other sessions in this series will build upon this one and explore more advanced techniques.

Learning Objectives:

- Describe the differences in how Domino renders applications to the browser versus how the same elements are displayed in the Notes Client.
- Understand what tools are available in Domino Designer to develop web applications.
- Make intelligent design decisions based on the type of application being developed.

Audience:

Programmers and Analysts who wish to leverage their existing skills to enable them to write web-enabled applications and create Domino-based websites. Experienced Notes application developers who want to learn how to develop web applications in Domino Designer.

Introduction to the Query Optimizer and DataBase Engine for DB2 for i5/OS

Linda Swan, IBM Corporation

As technology continues to invade all aspects of a company's environment, the data stored within those systems is becoming an integral asset that will help determine a company's success. The value of the information stored within the data is lost without a comprehensive database management system to manage and process that data. DB2 for i5/OS has just such a management system. This DBMS will allow you to process your data and turn it into valuable information. This session will familiarize you with the architecture of DB2 for i5/OS and will introduce you to the Database Engine and Query Optimizer.

LPAR Configuration Issues and Planning

Larry Bolhuis, Arbor Solutions, Inc.

This session will cover some of the more common (and some of the uncommon) issues that occur during the implementation of an LPAR. Knowing that the issues exist is an advantage when performing an installation. This session will arm you with information necessary for a successful LPAR implementation. We will cover topics from some basic LPAR requirements, through requirements for various operating systems, and issues relative to various hardware models. We will discuss console options, RAID cards, disk rules, cabling rules, loop rules and power issues. We'll touch on racking items and hints. We will discuss methods and options for migrating from one system to an LPARed system.

Learning Objectives:

- Understand what is needed for a successful LPAR build.
- Learn many tricks that will save time in the LPAR implementation process.
- Learn what to avoid to stay out of trouble in the process.

Managing System i PTFs

Larry Bolhuis, Arbor Solutions, Inc.

What are PTFs? Why do I need them? How do I get them? Which ones do I need? In this session we will describe PTFs, Cumulative PTFs, and other PTF Groups. We'll discuss how to find out what you have, how to get them, how to put them in place and much more.

Learning Objectives:

- What PTFs, and PTF Groups are and why you need them.
- How to get PTFs and load them onto your System i.
- The use of Virtual Image Catalogs and Virtual DVD drives to save time and problems in the PTF process.
- How to determine which PTFs you need for your system.

Audience:

Those charge of administering a System i.

Open Community Solutions Update

Erwin L. Earley, IBM Corporation

This session will provide an update on the state of open community technologies on System i. Specifically, this session will cover updates/enhancements to the Zend PHP products and MySQL AB database engine. Additionally this session will also provide details on V6R1 enhancements as they relate to the Linux environment on System i.

Overview of Web Services Technology in i5/OS

Tim Rowe, IBM Corporation

What is this concept called Web Services and why all the excitement? This session will provide an overview of the emerging Web Services application model. The session will discuss the key components of the Web Services, including use of SOAP for invocation of Web Services, WSDL for definition of Web Service interfaces. Lastly we will explore the various technologies to externalize/consume RPG/COBOL programs with Web services, including the new Web services server embedded in i5/OS, PHP, and WebSphere Application Server (WAS) and WebSphere Development Studio client (WDS) for System i.

Learning Objectives:

- Understand Web services technology and some of excitement around the technology.
- Overview the key components of Web services technology including SOAP, WSDL and a Web services registry.
- Overview the key technologies supported in i5/OS, for the ILE developer to externalize/consume services.

Pimp My i, Extreme System i Engineering

Larry Bolhuis, Arbor Solutions, Inc.

In this session you will meet the team behind Frankeni.com and learn first hand just how far you can push the System i architecture. We'll include photos of the build, a history of the project, including a few cautionary tales. So, get ready for some fun, some laughs, and maybe even some ideas for your own Franken machine. **WARNING:** We're what you call, `experts.` The events depicted in this session should not be attempted on any production system, in any production datacenter. What you are about to see is entirely unsupported, and may result in data loss, hair loss, and under the right circumstances job loss or loss of limbs. We will not be responsible for you being laughed at by IBM should you call them for support.

Practical Web Services for RPG

Tim Rowe, IBM Corporation

Introducing the i5/OS integrated Web services server for RPG. The integrated Web services server greatly simplifies the process of externalizing ILE business logic as a service via the i5/OS Web Administration GUI. This simplification has been accomplished by abstracting the hidden complexities of Web services and extending the ILE programming model to allow a System i administrator to directly externalize various ILE business tasks as services. The i5/OS operating system has newly integrated a Web services server for ILE (RPG & COBOL) and embeds the latest SOA technologies on i5/OS. This presentation will demonstrate the simplicity and power of the i5/OS integrated Web services technologies. Whether you are a programmer, an i5/OS administrator or someone who just wants to understand how SOA and Web services really work on i5/OS, this presentation will remove much of the mystery and make Web services something you can utilize in your company.

Learning Objectives:

- Learn compile RPG/COBOL code to embed Web Services information with the Service/Program.
- Demonstrate the simplicity of Create/Deploy/Testing a Web service with i5/OS integrated Web services server on i5/OS with 8 Step Wizard.
- Learn how to consume services with the i5/OS ILE programs including RPG/COBOL.

Rational Developer for System i: RPG & COBOL Tools; RSE Advanced

Linda Cole, IBM Corporation

The Remote System Explorer provides rich functions for creating and maintaining of RPG, COBOL, DDS, and CL code. If you understand the basics, then come to this session to learn how to customize the environment. Learn also about iSeries Projects. There are many additional functions and features that can make your day to day development work even more effective and more fun.

Rational Developer for System i: Using the Remote Systems Explorer for RPG & COBOL

Linda Cole, IBM Corporation

Rational Developer for System i (RDi) now includes the graphical Application Diagram and Screen Designer tools previously only shipped in the advanced edition of WDSC. The Application Diagram creates diagrams that represent the structure of RPG, COBOL and CL applications; providing both a call graph view and an ILE bindings view. The Screen Designer Technology Preview provides a graphical, point and click way to design DDS display files. This session provides a demonstration of the many current and upcoming features of the Application Diagram and Screen Designer, including their seamless integration with the latest RDi tools, such as the Remote Systems Lpex editor.

Rdi SOA

Linda Cole, IBM Corporation

EGL is IBM Rational's newest business development language. EGL extends the programming workbench with a simplified high-level programming language that enables business oriented developers who have little or no experience with Java, Web technologies or Service Oriented Architecture to create enterprise-class applications and services quickly and easily. Code generators automatically transform EGL into Java, COBOL, Web Services and deployment artifacts to support the broadest variety of business application and platform requirements. Attend this session and learn more about EGL.

Run 5250 Through a Browser Using System i Access for Web

Linda Hirsch, IBM Corporation

System i Access for Web has a 5250 interface that allows you to access your System i through your web browser of choice. You can completely control this function from i5/OS, set up preconfigured sessions for your end users, bypass the second sign-on by using macros at start-up time, and have a help desk 'shared 5250 session' with users having troubles at their desktop. Come and see the features and functions available in this new 5250 web-based interface so your company can get to the web with your existing applications.

Learning Objectives:

- Learn the differences between this 5250 emulator and full-function emulators like PC5250 in System i Access for Windows.
- Learn how an administrator can create pre-configured sessions.
- See the configuration options and functions like macros and shared sessions.

Audience:

This session is for administrators, consultants, or anyone who needs to know more about the browser 5250 emulator provided in System i Access for Web to know whether it will work in your business or for your clients. You'll learn the functions and its limitations.

SQL Performance Basics

Kevin Forsythe, DMC Consulting, Inc.

Managing the performance of your SQL statements requires different skills and techniques than managing your RPG programs. This session explores how to write more efficient statements and what techniques you can use to increase the performance of your database.

System i Access for Web - The Fast Path to Configuration and Managing End User Access

Linda Hirsch, IBM Corporation

System i Access for Web provides an easy-to-use web browser interface so end users can work with their i5/OS applications, database, printers, and more. Users only need a browser on their desktop since System i Access for Web runs entirely on the i5/ OS system in a web application server. This session will describe what is needed to set up a web serving environment, and how you install, configure, and get System i Access for Web up and running. We will also cover what an administrator needs to know to restrict access to functions for their end users and other security considerations.

Learning Objectives:

- Configuring System i Access for Web using the supported web application serving environments: WebSphere Application Server and the new web serving environment on i5/OS: the integrated web application server.
- Using the Policy function to control user access to various System i Access for Web functions.
- Customizing the home page and template files.
- Implementing bypass sign-on, single sign-on and other administrator considerations.

Audience:

This session is for administrators who need to know how to set up System i Access for Web in their business and how to control access to functions before rolling it out to end users.

System i Audit capabilities

Jeff Uehling, IBM Corporation

System i provides a plethora of options when it comes to auditing security related events on the server. Many of us have shied away from auditing because, from a cursory view, auditing seems only to eat up disk space and generate far more data than a normal human can digest. However, if we take a common sense approach to security auditing, it is possible to eliminate the drawbacks and get the vital information we need to properly manage the system. This session will provide the attendees with education related to the security auditing options on the system "i" server, how to configure the audit of security related events and information related to the auditing of objects and users.

Learning Objectives:

Provides the system administrator the background necessary to activate and monitor the security audit journal on the Power i system.

Audience:

System administrators and security officers.

The Art of Debugging: Thinking Outside the Developer's ToolBox

Charles Guarino, Central Park Data Systems, Inc.

A program ends in error. The users and management are frustrated. Reports are printing incorrectly, or the database is out of sync. This session explores some of the many tricks and techniques available to the programmer to help improve the debugging and problem resolution cycle. We will debug a program step by step using both the green screen and RDi debuggers. In addition, learn how to quickly identify relevant system information and use it constructively and creatively to find the cause of everyday problems. Some examples discussed are how to create a bullet proof test environment, break a running program loop without ending a program, and using the system debugger effectively. Real world field tested examples that you can take back and use immediately.

Learning Objectives:

- Learn how to improve their debugging and testing skills.
- Learn how to get around some of the `gotchas` you encounter day after day.

Audience:

All programmers who wish to broaden their debugging toolkit, learn new skills or use existing skills in a new way.

The Science and Art of Indexes and Statistics for DB2 for i5/OS

Linda Swan, IBM Corporation

On any platform, good database performance depends on good design. And good design includes a solid understanding of indexes and column statistics: how many to build, their structure and complexity, and their maintenance requirements. This is especially true for DB2 for i5/OS, which provides a robust set of choices for indexing and allows indexes and statistics to play a key role in several aspects of query optimization.

Learning Objectives:

- Be introduced to the new DB2 for i5/OS statistics manager and its automatic collection facilities. Understand what indexes are important to the query optimizer for statistics.
- Be able to determine what columns in a table are the best candidates for new indexes.
- Understand what types of indexes (binary radix or encoded vector) they should be creating and how they will benefit the queries.
- Understand how to proactively and reactively leverage database statistics to get the best SQL performance.
- Understand what new tools are available to analyze your indexing strategy.
- See the new V6R1 SQL Index capabilities.

There's Gold in Them Thar Hills: Making the Most of an RPG Dump

Charles Guarino, Central Park Data Systems, Inc.

This session focuses primarily on reading an RPG formatted dump and identifies all information provided by the system. In addition, learn how to interpret the results to prevent future errors using simple error trapping techniques. Finally, we will review commands that provide the programmer with useful system and database information, which are valuable for debugging.

Learning Objectives:

- Make the best use of an RPG formatted dump, and some methods to guarantee one is generated.
- Understand the somewhat cryptic RPG values returned by the system.
- Understand how the data on a formatted dump correlates to data available during program execution.

Audience:

Programmers of any skill level who don't consider an RPG formatted dump as a valuable asset in your development toolkit.

What's New in V6R1 Security

Jeff Uehling, IBM Corporation

This presentation will cover the wide range of security enhancements added by IBM in the V6R1 operating system release. These enhancements include the ability to encrypt data on media and on disk, new intrusion detection and prevention enhancements along with a number of additional system integrity and audit & compliance related changes that are available for all customers.

Learning Objectives:

- Learn about the new security features in the V6R1 operating system release.

Audience:

This session is intended for system administrators and system security officers.

What's New with Backup Recovery - Including Virtual Tape and Encryption!

Debbie S. Saugen, IBM Corporation

Find out what new things you need to know for the very latest releases to ensure you have a good backup strategy. Learn what changes need to be made to update your disaster recovery plans. New and exciting changes for Backup and Recovery are highlighted including Virtual Tape support, Backup Encryption and the latest and greatest for Backup Recovery and Media Services (BRMS).

Learning Objectives:

- Learn how 5.4 and 6.1 backup and recovery enhancements can improve your backup and recovery strategy.
- Understand virtual tape and if it's a good solution for your environment. 3. Learn about hardware and software backup encryption so you can make the right choice.

Audience:

Anyone responsible for designing, implementing, running or managing a backup and recovery strategy on IBM i.

What is Web 2.0

Tim Rowe, IBM Corporation

Wikis, blogs, AJAX, The Long Tail... What is Web 2.0?

And how does it relate to System i? Web 2.0 is considered to be the second wave of the World Wide Web and its services. Web 2.0 highlights the role of the web as a platform, as well as a social collaborative medium for connecting people with other people, their content, media, and products.

In this session we'll look at various Web 2.0 applications and concepts to help define what Web 2.0 is all about. Then we'll briefly explore how Web 2.0 can be produced and consumed with System i.