

Agenda

- · What's New in ColdFusion 5
 - There's more than you may have heard about
 - Not even covering all that's new (not enough time)
- · Some Issues to Note
 - Some (but not all) of the challenges you may encounter
- Where to Learn More
 - Dozens of available resources
- Q&A

What's New in ColdFusion 5

- · Easy, Reliable Upgrade
- · Increased Productivity
- · New Business Intelligence Capabilities
- Easy Management
- · Enhanced Performance
- · Other Enhancements

Easy, Reliable Upgrade

- · Most extensive CF beta program in history
 - Current code is backward compatible
 - See release notes, "documentation update", "faq" for more
- Pre-built example applications demonstrate new features

http://<servername>/cfdocs/examplehome.cfm (if installed)

Increased Productivity DollarXChange(Am t, direction)

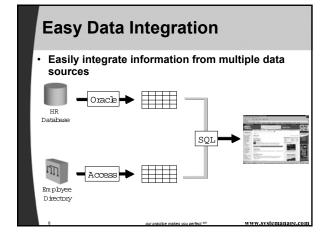
 Write code once, re-use it within template
 Can pass data to, return data from function
 New var and return statements available within CFSCRIPT

User-Defined Functions

www.cflib.org

- CFLib.org Common Function Library Project
 - An open source resource for useful UDF's
 - Several categories, more than 250 UDF's already
 - · String Manipulation (formatting, list processing)
 - · Data Manipulation (query result processing)
 - · Security (string hashing)
 - · Math (geometric, statistical, scientific, general)
 - Date, Financial, FileSys, Science, & Utility now added
- · Let's run some
- · Also Granularity.com's UDF library for XML
 - http://chapterhouse.granularity.net/udf/xml/
 - Also see the Macromedia Developer's Exchange

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Query of Queries

- · Formally called "Query of queries"
 - Referred to as CFSQL for a time, but no longer
- Increase query performance by querying result sets in memory
- Can perform Select, Join, Union, aggregate functions, and more
- · Let's see a simple example
 - Qoq_Simple.cfm

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Combine Any Result Sets

- · Lots of possibilities:
 - Query disparate datasources
 - Join Access and Oracle queries
 - Query previous query
 - · Subset or summarize a previous query, for instance
 - Query cached queries
 - · Subset a cached query
 - · Join a cached lookup table
 - Can query both variable-cached and query-cached results
 - Query output of <u>any</u> tag that creates resultset

Query a Previous Query <CFOUERY NAME = "GetSalaries" DATASOURCE = "CompanyInfo"> SELECT FirstName, LastName, Salary, Departmt.Dept_Name, Employee.Dept_ID FROM Departmt, Employee WHERE Departmt.Dept_ID = ORDER by LastName </CFQUERY> <CFQUERY <u>DBTYPE = "query"</u>NAME = "getavg"> SELECT Dept_Name, AVG(Salary) AS GROUP BY Dept Name </CFQUERY> <CFOUTPUT QUERY="getsa #FirstName# #LastName# #dept_name# #dollarformat(salary)#
 </CFOUTPUT> <H4>Salary Analysis</H4> <CFOUTPUT QUERY="getavg"> #dept_name#: #dollarformat(avgsal)# </CFOUTPUT>

 New Business Intelligence Capabilities

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Charting and Reports Charting Engine - <CFGRAPH> Interface - 12 common business charts - High-performance options Reporting Integration - <CFREPORT> Interface - Reuse existing reports - Supports Crystal Reports 8

Charting Details

- Supports Bar, Line, and Pie charts
 - Flash, JPG, and PNG formats
 - Many options to control look and feel
- · Drill-down supported as well (in flash format)
- · Can graph any query result set
 - Remember, that's more than just CFQUERY
- Can also graph non-query data, with CFGraphData

Let's see installed example

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Enhanced Verity K2 Search

- · New Verity K2 Engine
 - Supports newer document types
 - Includes international language packs
 - Supports site spidering and more
- Increased Document Counts with K2 Server
 - 125.000 with Professional
 - 250,000 with Enterprise
- · Out-of-Process Integration
 - K2 Server runs separately from CF Server
 - Increased performance
 - Can support indexing/querying multiple servers

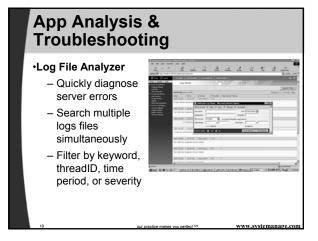
Enhanced Legacy Verity Support

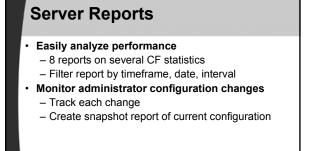
- · Previously available Verity features still supported
 - Now known as VDK mode
 - All previous tags, admin interface remain the same
- · Can support more document types
 - Including Office 2000, and more
- International Language Support pack (limited set) now available on install CD
 - No longer needs to be purchased
 - Support for more languages can be purchased
- CF now automatically locks Verity operations
 - Concurrent read/write operations on an index are protected from stepping on each other

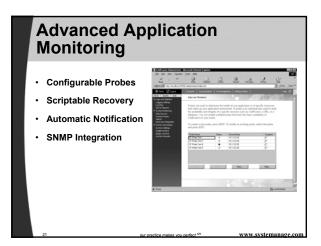
Easy Management

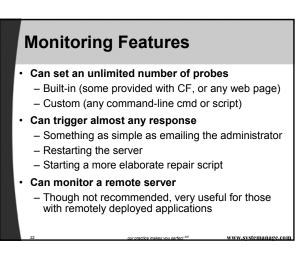
Enhanced Administrator Interface

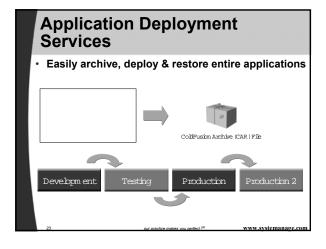
- · New design, streamlined functionality
 - Multiple layers/tabs
- Online help
- Every change to admin configuration is tracked for reporting purposes
- · Can now add custom features to administrator
- · Let's take a look

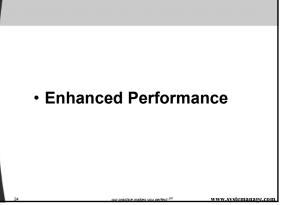












A Faster CF

- · Lab tests show a major improvement in performance
 - Up to three times faster on Windows and Linux. compared with ColdFusion 4.5
 - Up to 33% faster on Solaris (less dramatic due to improvements already made in 4.5)
- · See Performance Brief
 - At Macromedia's ColdFusion 5 Site

Performance Enhancements

- · Faster Page Requests Under Load
- · Enhanced SMP (multiprocessor) support
- Automatic Memory Footprint Reduction
- · Efficient Memory Utilization
- · Available Hardware Load Balancing Integration
- **Available Merant Wire Protocol ODBC Protocol Drivers**

Other Enhancements

Incremental Page Delivery

- · Not a performance improvement
 - But increases apparent responsiveness
- CFFlush sends any output available at time of flush
 - or can send when x bytes generated
- · Some issues to be aware of
 - See documentation
- Let's see the installed example

ColdFusion Server 5

New/Enhanced Tags

- CFSaveContent
- CFObjectCache
- CFDump
- · CFLOG
- · New CFFTP Action attribute value: "Removedir"
- · Various CFFORM enhancements
 - Let's see the installed example

More Additions

- CFINPUT and CFTEXTINPUT allow regular expressions for validation
 - VALIDATE="regular expression" PATTERN=""
- · GetHTTPRequestData() function
- · GetException() function
- · IsCustomFunction() function
- Dynamic Java Class Loader
- · Merant ODBC Text driver
- **Dynamic DB connections**

Other Enhancements

- Studio "Tag Infusion Pack" at Macromedia Site
- Enhanced Examples on install
- Advanced Security Cache Enhancements
- · Some new options can be disabled in Basic Security
 - Including support for Tag/attribute restrictions
 Rather than previous "whole tag" restrictions
- Multiple Custom Tag directories
 - See Admin>Server>Extensions>CustomTag Paths
- · Enhanced COM Integration
- · Rearchitected CORBA support
- Support for SuSE Linux and Cobalt RAQ, XTR, and Qube servers
- ...to name a few

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Problems Fixed

- · Problems in previous release now fixed
 - Duplicate() function works as expected
 - Improperly formatted file in mail spool no longer causes all spool files to never be sent
 - "Disable database connection" in Admin now works as expected
 - CFFILE no longer converts spaces in file names to underscores
 - ... to name a few, and there are many more
 - See Release Notes under "Resolved Issues"

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Some Issues to Note

Some Other Issues

- · Several HotFixes available
 - See

http://www.allaire.com/Handlers/index.cfm?ID=20371

- Underlying applet used for CFForm tags (slider, tree, etc.) uses a signed certificate that expired 12/16/01
 - Macromedia coming up with new patch for that
 - Watch

http://forums.allaire.com/coldfusion/messageview.cfm?catid=3&threadid=235225

Some Other Issues

- Enterprise doesn't support Win98/ME
- · Professional doesn't support WinME
- See release notes, "documentation update" for more platform/OS issues
- Examples require that Admin "Variable Scope Locking" setting for "full checking" be turned off
- · Examples using CFX datasource failed
 - Needed to uncheck "disable datasource" in Admin

Undocumented Problems

- Bug in CFGRAPH
 - If SCALETO attribute not specified, and a non-numeric value exists in the column being graphed, graphing server crashes
- HotFix Available for another bug
 - ColdFusion Becomes Unresponsive when Zeros Are Used in the cfgraph Tag (KB 22253)
- · Studio Tag Upgrade has mistakes for CFGRAPH
 - Creates SHOWITEMLABELS
 - Should be singular
 - Tag Insight not creating closing tag
 - Offers VALUELOCATION="on bar"
 - Should not be a space
- WHERE clause string "matching" in QofQ is case-sensitive
 - Not documented anywhere I could find

Where to Learn More

Learning More

- · Information spread over several documents!
- Documentation
 - New manuals ("Installing and Configuring", "Advanced Admin")
 - · Bundled in print with CF server purchase
 - · Installable as HTML with server
 - · Available online as PDF at MACR CF5 site
- · CF Admin Help
 - Not available in printed form
 - Some topics discussed only there
 - Can setup shortcut to point to:
 - · http://<servername>/CFIDE/Administrator/help/cfadminhelp.htm

Learning Still More

- Several Resources on MACR CF Product Overview page http://www.macromedia.com/software/coldfusion/
 - New Features Document
 - Upgrade Guide
 - System Requirements
 - FAQ
 - Edition Comparison Matrix
 - Performance Brief
 - Reviews and Awards
 - Release Notes
 - Updated version over those offered on CD & at overview site
 - http://www.allaire.com/Handlers/index.cfm?ID=21158&Method=Full
 - Documentation Errata

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See Also

Evaluator's Guide

http://www.macromedia.com/software/coldfusion/ -resources/evaluation/cf5_evaluators_guide.pdf

What's So Great About User Defined Functions?

http://www.allaire.com/handlers/index.cfm?ID=20763

Understanding Progress Meters in CF 5

http://www.allaire.com/handlers/index.cfm?ID=21216&Method=Full

Simple Caching Techniques with CFSAVECONTENT

http://www.allaire.com/handlers/index.cfm?ID=21422

"CF 5 In Depth" Seminar

- · Couldn't cover all details in this brief overview
 - Despite offering several details
 - Gathered from the several resources and extensive testing
- · Still more to cover, and many more details
 - Offering day-long seminar on-site, perhaps public
 - · More new features, details on using features
 - · More about solving problems not well-documented
 - Deprecated and Enterprise-only features
 - · Lots more
- · See attached flyer for details, costs, contact info

Contact Information

- · Contact for follow-up issues
 - Email: carehart@systemanage.com
 - Phone: (301) 604-8399
 - Web: www.systemanage.com
- Also available for
 - Training (custom or pre-written)
 - · CF, DB, Jrun/J2EE, Javascript, wireless, and more
 - Consulting (very short-term)
 - · best practices, architecture, setup
 - Developer Group Mentoring

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Q&A		
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