Continuously Improve CF Code Quality, Server Availability & Application Stability

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www.fusion-reactor.com
• To those viewing these slides who did not attend, note that the bulk of the presentation was live demos
  – For more information on the tools and techniques shown, see the offered URLs
Topics

• The CF Troubleshooting Spectrum
• A Suite of Tools to Help
  – FusionReactor 4
  – FusionAnalytics
  – FusionDebug 3.5
• Where to learn more

www.fusion-reactor.com
We have a range of problems to solve...
  - Some related to code, many related to server
  - Can affect availability, reliability
  - Some are apparent, some less obvious
  - Proper tools/diagnostics are vital
  - Need to find/resolve issues continuously
    - And continuously improve stability, quality, etc.
A Suite of Tools to Help

• Intergral offers three new or improved tools to help with this spectrum of challenges
  – Server Monitoring, Crash Protection, and more for CF/Railo/OpenBD/Any JEE server
    • FusionReactor 4 (now available)
  – Server Analytics (powerful request/resource analysis)
    • FusionAnalytics (now available)
  – Interactive Step Debugging for CF/Railo
    • FusionDebug 3.5 (Nov ‘10)

• Enough slides, let’s see demos
Follow-up to Demos

- Some more points of consideration
New in FR 4

- **FRAM**
  - Separate server to install/watch monitored server(s)
  - Available with both FR Enterprise and Standard
- **FREC**: logging of key CF metrics
- **Centralized archiving and logging**

- **Java memory spaces** (heap/young/tenured/eden/permgen/codecache/more)
- **AMF dissector** (request and response)
- **CPU Threading**
- **Plugin architecture**
- **And more**
• Note that FR has been updated to 4.03
  – Various updates, some important
  – See complete list at KB 251:
    • http://www.fusion-reactor.com/support

• Coming tablet interface
  – Enterprise Dashboard
Why FusionAnalytics?

• Comprehensive analytics tool, ranging from per query/request to per hour/day/month/year/decade
• Help developers tune individual applications
• Help troubleshooters understand hotspots, trends
• Help managers observe reliability/performance, facilitate resource planning (memory, cpu, etc.)
  – Daily reports, sent by email or viewable online
  – With less technical perspective but measurable, actionable
First version is FA for FusionReactor (FA for FR)
  - Processes FR logs
    - from CF, Railo, BD, any JEE server
    - Some features are only CF-specific for now
  - Provides powerful analytics for request, database, resources, other processing within server
  - Over 130 views, 300 metrics

FA is very extensible
  - You can add new reports/visualizations
  - You can analyze any logs
  - Tool will evolve over time, users may contribute to it

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Key FA for FR Features

• Analyze requests, database processing, memory, CPU
  – From per millisecond out to per decade
• Analyze hot-spots (memory, CPU, request, database)
• Analyze CF stats (hitcounts, scopes, DB pool stats)
• Analyze by application (or framework type)
• And much more (and more to come!)
• Daily Status and TAP Reports
Why FusionDebug?

Why use FusionDebug when CF includes step debugging?

- FD does not require use of RDS in CF
- FD adds debugging features not in CFBUILDER
- FD is much faster stepping through code than CFBUILDER (and Java!)
- FD can work alongside of or within CFBUILDER
- FD can debug Railo requests, CFBUILDER cannot
New in FD 3.5

- New in 3.5
  - Option to fire breakpoints only per a given IP address list
    - CFBuilder debugs whatever user requests a debugged page first
  - Supports Eclipse 3.2 to 3.6 (Helios)
  - And more
- Note that 3.01 had added:
  - HitCount, AutoStep (“FDTV”)
  - Support for CF 9, integration with CFBuilder
- And so much more that it’s always done!
Learning More About All 3

- Many resources online
  - http://www.fusion-reactor.com
  - http://www.fusion-analytics.com
  - http://www.fusiondebug.com

- Resources include
  - Documentation (installation, user guides), articles
  - Live demos
  - Videos, webinars (recorded and live)
  - And more
Getting Support

• Mailing lists (community and product teams)
  – http://groups.google.com/group/fusionreactor
  – http://groups.google.com/group/fusionanalytics
  – http://groups.google.com/group/fusiondebug

• Free install support by email
  – And available commercial support
  – Both at product web sites

• Available consultative help
  – http://www.cfconsultant.com
Intergral is an Adobe Partner

• Looking for a ColdFusion license?
• Looking for upgrade to CF Zeus?
  – Upgrade to 9 with Platinum support
• Interested in other Adobe products?
• Let’s hear from David Tattersall, CEO
• More at sales@fusion-reactor.com
Conclusion

• We have a range of problems to solve
  – Some in code, many in configuration
  – Proper tools/diagnostics are vital
  – Need to find/resolve continuously

• A suite of tools to help
  – FusionReactor 4
  – FusionAnalytics
  – FusionDebug 3.5

• Questions? See support resources