Devoxx 2008 in a breeze

Cristian Lucchesi
Lorenzo Luconi Trombacchi
IIT-CNR
16 dicembre 2008
Devoxx

Devoxx = Java Community Conference
3200(+2) partecipanti da 35 nazioni

Belgio – Antwerpen (Anversa)
8 – 12 dicembre 2008

University (8-9) + Conference (10-12)
University – giorno 1

- **Introduzione al JPA (1.5h)**
- JBoss Tools (1.5h)
- Servlet 3.0 e JSF 2.0 (3h)
- Java Power Tools (3h)
- A successful search, a happy user: make it happen! (30min)
- VisualVM - new extensible monitoring platform (30min)
- 10 reasons why Java EE development doesn't have to be painful (30min)
University – giorno 1

- Introduzione al JPA (1.5h)
- **JBoss Tools (1.5h)**
- Servlet 3.0 e JSF 2.0 (3h)
- Java Power Tools (3h)
- A successful search, a happy user: make it happen! (30min)
- VisualVM - new extensible monitoring platform (30min)
- 10 reasons why Java EE development doesn't have to be painful (30min)
JBoss tools
University – giorno 1

• Introduzione al JPA (1.5h)
• JBoss Tools (1.5h)
• **Servlet 3.0 e JSF 2.0 (3h)**
• Java Power Tools (3h)
• A successful search, a happy user: make it happen! (30min)
• VisualVM - new extensible monitoring platform (30min)
• 10 reasons why Java EE development doesn't have to be painful (30min)
Servlet 3.0

- Notazioni vs Deployment descriptor
- @Servlet(urlMappings={"/MyApp"}), @GET, ...
- web-fragment.xml dentro i jar
- Support Asincrono
University – giorno 1

• Introduzione al JPA (1.5h)
• JBoss Tools (1.5h)
• Servlet 3.0 e JSF 2.0 (3h)
• **Java Power Tools (3h)**
• A successful search, a happy user: make it happen! (30min)
• VisualVM - new extensible monitoring platform (30min)
• 10 reasons why Java EE development doesn't have to be painful (30min)
Java Power Tools

- Continuous Integration
- Subversion
- Ant, Ivy, Maven
- Hudson, Bamboo
- build/test/deploy
- Test: TestNg, test parametrizzati, Junit4, EasyB, Harvest assertion
- CheckStyle, Cobertura, Findbugs

ciò possibile!
University – giorno 1

- Introduzione al JPA (1.5h)
- JBoss Tools (1.5h)
- Servlet 3.0 e JSF 2.0 (3h)
- Java Power Tools (3h)
- A successful search, a happy user: make it happen! (30min)
- VisualVM - new extensible monitoring platform (30min)
- 10 reasons why Java EE development doesn't have to be painful (30min)
University – giorno 1

- Introduzione al JPA (1.5h)
- JBoss Tools (1.5h)
- Servlet 3.0 e JSF 2.0 (3h)
- Java Power Tools (3h)
- A successful search, a happy user: make it happen! (30min)
- VisualVM - new extensible monitoring platform (30min)
- 10 reasons why Java EE development doesn't have to be painful (30min)
University – giorno 1

- Introduzione al JPA (1.5h)
- JBoss Tools (1.5h)
- Servlet 3.0 e JSF 2.0 (3h)
- Java Power Tools (3h)
- A successful search, a happy user: make it happen! (30min)
- VisualVM - new extensible monitoring platform (30min)
- **10 reasons why Java EE development doesn't have to be painful** (30min)
• Scaling hibernate tips: recipes and new perspectives (1h)
  • sharding, Lucene...

• Tune this! (1h)
  • Kirk il Java champion...
University & Bof – giorno 2

- Comet: never more! (3h)
- Seam in action (3h)
- ActiveMQ and ServiceMix (3h)
- Creating performance test data with the Benerator (30min)
- Resting Easy with Grails (30min)

- JBoss AS 5 (BOF - 1h)
University & Bof– giorno 2

• Comet: never more! (3h)

• **Seam in action (3h)**

• ActiveMQ and ServiceMix (3h)

• Creating performance test data with the Benerator (30min)

• Resting Easy with Grails (30min)

• JBoss AS 5 (BOF - 1h)
Seam in Action

Covers Seam 2.0

Dan Allen

MANNING

www.devoxx.com
University & Bof– giorno 2

• Comet: never more! (3h)
• Seam in action (3h)
• **ActiveMQ and ServiceMix** (3h)
• Creating performance test data with the Benerator (30min)
• Resting Easy with Grails (30min)

• JBoss AS 5 (BOF - 1h)
Apache Camel

Camel is an integration engine and router. It has endpoints and processors:

- Camel Endpoints
  - Camel can send messages to them
  - Or receive messages from them

- Camel Processors
  - Are used to wire endpoints together
  - Routing
  - Transformation
  - Mediation
  - Interception
  - Enrichment
  - Validation
  - Tracking
  - Logging

Camel Components
- Provide a uniform endpoint interface
- Act as connectors to all other systems
Apache ServiceMix
University & Bof– giorno 2

• Comet: never more! (3h)
• Seam in action (3h)
• ActiveMQ and ServiceMix (3h)
• Creating performance test data with the Benerator (30min)
• Resting Easy with Grails (30min)

• JBoss AS 5 (BOF - 1h)
University & Bof – giorno 2

• Comet: never more! (3h)
• Seam in action (3h)
• ActiveMQ and ServiceMix (3h)
• Creating performance test data with the Benerator (30min)
• Resting Easy with Grails (30min)

• JBoss AS 5 (BOF - 1h)
• Comet: never more! (3h)
• Seam in action (3h)
• ActiveMQ and ServiceMix (3h)
• Creating performance test data with the Benerator (30min)
• Resting Easy with Grails (30min)

• JBoss AS 5 (BOF - 1h)
JBoss AS 5 (5.0.0.GA)
Conference – giorno 3

• Keynote

• **JavaFX: The Platform for Rich Internet Applications** by (Sun Microsystems) and Co. (1h)

• Java and RFID by IBM (1h)

• Hippo CMS 7 sneak preview (1h)

• Introduction to the SpringSource DM Server (1h)

• What's new and exciting in JPA 2.0 (1h)

• What's new in SpringFramework 3.0 (1h)

• Introductions to Web Beans (1h)
JavaFx – live demo

• http://java.sun.com/javafx/
Conference – giorno 3

• Keynote

• JavaFX: The Platform for Rich Internet Applications by (Sun Microsystems) and Co. (1h)

• **Java and RFID by IBM (1h)**

• Hippo CMS 7 sneak preview (1h)

• Introduction to the SpringSource DM Server (1h)

• What's new and exciting in JPA 2.0 (1h)

• What's new in SpringFramework 3.0 (1h)

• Introductions to Web Beans (1h)
Conference – giorno 3

• Keynote

• JavaFX: The Platform for Rich Internet Applications by (Sun Microsystems) and Co. (1h)

• Java and RFID by IBM (1h)

• **Hippo CMS 7 sneak preview (1h)**

• Introduction to the SpringSource DM Server (1h)

• What's new and exciting in JPA 2.0 (1h)

• What's new in SpringFramework 3.0 (1h)

• Introductions to Web Beans (1h)
Conference – giorno 3

• Keynote

• JavaFX: The Platform for Rich Internet Applications by (Sun Microsystems) and Co. (1h)

• Java and RFID by IBM (1h)

• Hippo CMS 7 sneak preview (1h)

• Introduction to the SpringSource DM Server (1h)

• What's new and exciting in JPA 2.0 (1h)

• What's new in SpringFramework 3.0 (1h)

• Introductions to Web Beans (1h)
SpringSource DM Server
Conference – giorno 3

• Keynote
• JavaFX: The Platform for Rich Internet Applications by (Sun Microsystems) and Co. (1h)
• Java and RFID by IBM (1h)
• Hippo CMS 7 sneak preview (1h)
• Introduction to the SpringSource DM Server (1h)
• **What's new and exciting in JPA 2.0 (1h)**
• What's new in SpringFramework 3.0 (1h)
• Introductions to Web Beans (1h)
JPA 2.0

• Expanded object/relational mapping functionality, including greater flexibility in combining existing mapping options, support for collections of embedded objects, multiple levels of embedded objects, etc

• Additions to the Java Persistence query language

• An API for "criteria" queries

• Standardization of sets of "hints" for query configuration and for entity manager configuration

• Expanded pluggability contracts to support efficient passivation and replication of extended persistence contexts in Java EE environments

• Standardization of additional contracts for entity detachment and merge, and persistence context management

• Support for validation
Conference – giorno 3

• Keynote

• JavaFX: The Platform for Rich Internet Applications by (Sun Microsystems) and Co. (1h)

• Java and RFID by IBM (1h)

• Hippo CMS 7 sneak preview (1h)

• Introduction to the SpringSource DM Server (1h)

• What's new and exciting in JPA 2.0 (1h)

• What's new in SpringFramework 3.0 (1h)

• Introductions to Web Beans (1h)
Conference – giorno 3

- Keynote
- JavaFX: The Platform for Rich Internet Applications by (Sun Microsystems) and Co. (1h)
- Java and RFID by IBM (1h)
- Hippo CMS 7 sneak preview (1h)
- Introduction to the SpringSource DM Server (1h)
- What's new and exciting in JPA 2.0 (1h)
- What's new in SpringFramework 3.0 (1h)
- Introductions to Web Beans (1h)
• Seam, Web Beans and JBoss Tools (1h)
Conference – giorno 4

- Keynote
- Effective Java Reloaded by Joshua Bloch (1h)
- The Modular Java Platform by Mark Reinhold - JDK 7 (1h)
- Be Smart! by Ivar Jacobson (1h)
- Introduction to NIO.2 (1h)
- The JBoss SOA Platform - An Overview and Methodology (1h)
- JEE6 Overview by Roberto Chinnici (1h)
- Hibernate Performance Tuning (1h)
Conference – giorno 4

- Keynote
- Effective Java Reloaded by Joshua Bloch (1h)
- The Modular Java Platform by Mark Reinhold - JDK 7 (1h)
- Be Smart! by Ivar Jacobson (1h)
- Introduction to NIO.2 (1h)
- The JBoss SOA Platform - An Overview and Methodology (1h)
- JEE6 Overview by Roberto Chinnici (1h)
- Hibernate Performance Tuning (1h)
# Jdk 7 changes

<table>
<thead>
<tr>
<th>Rank</th>
<th>Person</th>
<th>Get urn</th>
<th>Person</th>
<th>Person</th>
<th>Multi catch of exceptions</th>
<th>Multi handling of exceptions</th>
<th>List/Map extension</th>
<th>Multi line strings</th>
<th>Type-erasure blocks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>33</td>
<td>67</td>
<td>17</td>
<td>10</td>
<td>70</td>
<td>10</td>
<td>6</td>
<td>8</td>
<td>4</td>
</tr>
<tr>
<td>2</td>
<td>21</td>
<td>56</td>
<td>33</td>
<td>27</td>
<td>38</td>
<td>16</td>
<td>2</td>
<td>10</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>30</td>
<td>26</td>
<td>15</td>
<td>35</td>
<td>15</td>
<td>18</td>
<td>5</td>
<td>17</td>
<td>3</td>
</tr>
<tr>
<td>4</td>
<td>25</td>
<td>26</td>
<td>13</td>
<td>28</td>
<td>42</td>
<td>23</td>
<td>4</td>
<td>13</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>10</td>
<td>20</td>
<td>12</td>
<td>28</td>
<td>28</td>
<td>24</td>
<td>2</td>
<td>25</td>
<td>4</td>
</tr>
<tr>
<td>6</td>
<td>14</td>
<td>15</td>
<td>10</td>
<td>42</td>
<td>19</td>
<td>21</td>
<td>6</td>
<td>21</td>
<td>5</td>
</tr>
<tr>
<td>7</td>
<td>14</td>
<td>9</td>
<td>8</td>
<td>8</td>
<td>9</td>
<td>23</td>
<td>7</td>
<td>24</td>
<td>6</td>
</tr>
<tr>
<td>8</td>
<td>25</td>
<td>19</td>
<td>7</td>
<td>9</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>32</td>
<td>7</td>
</tr>
<tr>
<td>X</td>
<td>21</td>
<td>12</td>
<td></td>
<td></td>
<td>X</td>
<td></td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Extra votes below the line:
- 1: 5
- 2: 4
- 3: 3
- 4: 2
- 5: 1
- 6: 1
- 7: 2
- 8: 3

*Note: The table and chart depict rankings and votes, likely for different aspects of JDK 7 changes, with specific properties, exceptions, and handling methods.*
Conference – giorno 4

• Keynote
• Effective Java Reloaded by Joshua Bloch (1h)
• The Modular Java Platform by Mark Reinhold - JDK 7 (1h)
• **Be Smart! by Ivar Jacobson (1h)**
• Introduction to NIO.2 (1h)
• The JBoss SOA Platform - An Overview and Methodology (1h)
• JEE6 Overview by Roberto Chinnici (1h)
• Hibernate Performance Tuning (1h)
Be smart!

We are all testers!

Whatever you do you are not done until you have verified that you did what you wanted to do.
Conference – giorno 4

• Keynote
• Effective Java Reloaded by Joshua Bloch (1h)
• The Modular Java Platform by Mark Reinhold - JDK 7 (1h)
• Be Smart! by Ivar Jacobson (1h)
• Introduction to NIO.2 (1h)
• The JBoss SOA Platform - An Overview and Methodology (1h)
• JEE6 Overview by Roberto Chinnici (1h)
• Hibernate Performance Tuning (1h)
Conference – giorno 4

- Keynote
- Effective Java Reloaded by Joshua Bloch (1h)
- The Modular Java Platform by Mark Reinhold - JDK 7 (1h)
- Be Smart! by Ivar Jacobson (1h)
- Introduction to NIO.2 (1h)
- The JBoss SOA Platform - An Overview and Methodology (1h)
- JEE6 Overview by Roberto Chinnici (1h)
- Hibernate Performance Tuning (1h)
JBoss SOA platform
Conference – giorno 4

• Keynote
• Effective Java Reloaded by Joshua Bloch (1h)
• The Modular Java Platform by Mark Reinhold - JDK 7 (1h)
• Be Smart! by Ivar Jacobson (1h)
• Introduction to NIO.2 (1h)
• The JBoss SOA Platform - An Overview and Methodology (1h)
• JEE6 Overview by Roberto Chinnici (1h)
• Hibernate Performance Tuning (1h)
JEE6 Overview

• Pruning – removing of dead wood from the code (JAX-RPC, EJB 2.x Entity beans CMP)

• Profiles – JEE 6 will offer three profiles (will be packaged in three ways). The Minimal profile is basically a Servlet container. The Intermediate profile adds EJB 3.1, WebBeans, JTA and JPA, and the full profile adds JMS, JCA, and a bunch of JAX’es.

• WebBeans (JSR 299) unifies JSF, JPA and EJB 3. It introduces Conversations (circumcised sessions), dependency injections, and annotation meta-programming.

• EJB 3.1 will become simpler (haven’t we heard this already?). Interesting development here is an introduction of a Singleton Bean as a global repository for your application, cron-style declarative and programmatic timers, Java SE support (think about it – you can create a server container on the fly right in your desktop application), EJB Lite.
Java Persistence API gets Bean validation (JSR 303) that will let you validate data at various level. I hope there will be a way to selectively turn this validation on or off.

Servlet 3.0 (JSR 3.0) is something that I’m watching closely because of its huge scalability potential. Use of non-blocking I/O and asynchronous processing (suspending and resuming of queries) will dramatically increase the number of supported concurrent users. The open source Jetty already offers Servlet 3.0 implementation, and commercial vendors will implement it too. A servlet turns into an annotated POJO.

And finally, JEE 6 will offer Web Service support with the ReEST using JAX-RS API.
Conference – giorno 4

• Keynote
• Effective Java Reloaded by Joshua Bloch (1h)
• The Modular Java Platform by Mark Reinhold - JDK 7 (1h)
• Be Smart! by Ivar Jacobson (1h)
• Introduction to NIO.2 (1h)
• The JBoss SOA Platform - An Overview and Methodology (1h)
• JEE6 Overview by Roberto Chinnici (1h)
• Hibernate Performance Tuning (1h)
Principali conferenze Java 2009

JavaOne 2009, San Francisco Giugno 2009
JBoss world, Chicago Settembre 2009
Devoxx 2009, Antwerpen Dicembre 2009
Thanks for your attention!

http://www.devoxx.com
http://parleys.com