

# Contents

|                                                                                                               |            |
|---------------------------------------------------------------------------------------------------------------|------------|
| <b>Linux-Kongress 2009</b>                                                                                    | <b>5</b>   |
| <b>Userspace Application Tracing</b><br><i>Jan Blunck, Mathieu Desnoyers, Pierre-Marc Fournier</i>            | <b>7</b>   |
| <b>QEMU – The building block of Open Source Virtualization</b><br><i>Glauber Costa</i>                        | <b>15</b>  |
| <b>Fighting regressions with git bisect</b><br><i>Christian Couder</i>                                        | <b>21</b>  |
| <b>View-OS: Change your View on Virtualization.</b><br><i>Renzo Davoli, Michael Goldweber</i>                 | <b>41</b>  |
| <b>Improving disk I/O performance on Linux</b><br><i>Håvard Espeland et al.</i>                               | <b>61</b>  |
| <b>Real-Time performance comparisons and improvements between 2.6 Linux Kernels</b><br><i>Gazment Gerdeci</i> | <b>71</b>  |
| <b>LAX – a toolset for network administration</b><br><i>Thomas Groß</i>                                       | <b>81</b>  |
| <b>Pre-silicon software development of Linux MTD drivers</b><br><i>Gernot Hoyer</i>                           | <b>95</b>  |
| <b>ext4, btrfs and the others</b><br><i>Jan Kára</i>                                                          | <b>99</b>  |
| <b>Linux multi-core scalability</b><br><i>Andi Kleen</i>                                                      | <b>113</b> |
| <b>dmraid update</b><br><i>Heinz Mauelshagen</i>                                                              | <b>121</b> |
| <b>The Good, the Bad, and the Ugly? Structure and Trends of Open Unix Kernels</b><br><i>Wolfgang Mauerer</i>  | <b>125</b> |
| <b>A generic architecture and extension of eCryptfs</b><br><i>André Osterhues et al.</i>                      | <b>149</b> |
| <b>System call tracing overhead</b><br><i>Jörg Zinke, Bettina Schnor, Simon Kiertscher</i>                    | <b>157</b> |
| <b>EDE, a light desktop environment, description and best practices</b><br><i>Sanel Zukan</i>                 | <b>167</b> |
| <b>OpenSolaris Developer Conference 2009</b>                                                                  | <b>171</b> |
| <b>OpenSolaris on IBM System Z Hardware</b><br><i>Dr. David Boyes, Neale Ferguson</i>                         | <b>173</b> |

|                                                                                                 |     |
|-------------------------------------------------------------------------------------------------|-----|
| Table of Contents                                                                               |     |
| <b>Alligator meets Terminator: Caiman and AI</b><br><i>Volker A. Brandt</i>                     | 213 |
| <b>Translation of OpenSolaris</b><br><i>Aleš Černošek, Jan Lána</i>                             | 217 |
| <b>Implementing a simple SMF Service: Lessons learned</b><br><i>Constantin Gonzalez</i>         | 227 |
| <b>ZFS internal structures</b><br><i>Ulrich Gräf</i>                                            | 241 |
| <b>Dead ends in multithreads application development</b><br><i>Zdeněk Kotala</i>                | 247 |
| <b>Network virtualisation using Crossbow technology</b><br><i>Uroš Nedić</i>                    | 253 |
| <b>Source Juicer – A New Way to Build Solaris Software</b><br><i>Brian Nitz and Mark Duggan</i> | 265 |
| <b>Using DTrace for Gnome Performance Analysis</b><br><i>Krishnan Parthasarathi</i>             | 273 |
| <b>ARM port of Opensolaris and its future!</b><br><i>Vineeth Pillai</i>                         | 279 |
| <b>Jumping to the next IPS level</b><br><i>Michal Pryc</i>                                      | 285 |
| <b>Introduction to the Chime Visualization Tool for DTrace</b><br><i>Bill Rushmore</i>          | 303 |
| <b>Greening the OpenSolaris Kernel</b><br><i>Eric Saxe</i>                                      | 315 |
| <b>Learn to source juicer</b><br><i>Thomas Wagner</i>                                           | 321 |
| <b>Imprint</b>                                                                                  | 332 |