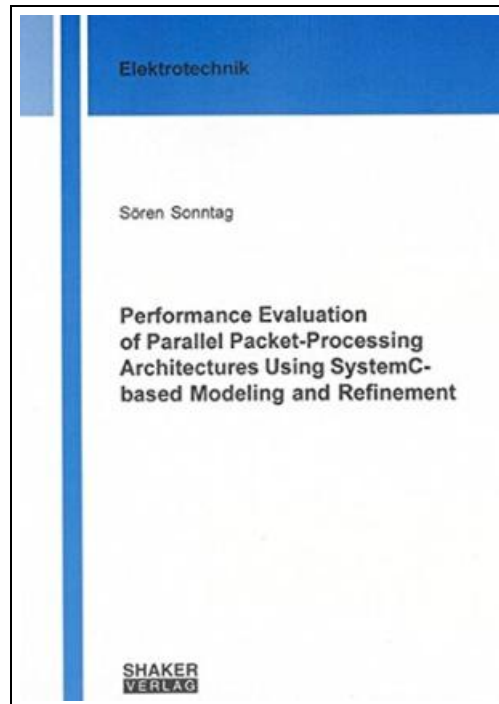


## Performance Evaluation of Parallel Packet-Processing Architectures Using SystemC-based Modeling and Refinement



Filesize: 6.09 MB

### **Reviews**

*This book is really gripping and fascinating. I was able to comprehend every little thing out of this published e pdf. Your life span will likely be transform when you full looking at this ebook.*

*(Mrs. Heaven Schmeler)*

## PERFORMANCE EVALUATION OF PARALLEL PACKET-PROCESSING ARCHITECTURES USING SYSTEMC-BASED MODELING AND REFINEMENT



To download **Performance Evaluation of Parallel Packet-Processing Architectures Using SystemC-based Modeling and Refinement** eBook, please follow the button listed below and save the document or get access to additional information which are highly relevant to PERFORMANCE EVALUATION OF PARALLEL PACKET-PROCESSING ARCHITECTURES USING SYSTEMC-BASED MODELING AND REFINEMENT book.

Shaker Verlag Feb 2007, 2007. Taschenbuch. Condition: Neu. Neeware - Network nodes, such as broadband access components, are facing new design challenges due to recent trends in applications and technologies. Stringent constraints on platform costs, performance, and power dissipation increasingly require novel programmable application-specific multi-processor architectures to be deployed. Early design space exploration is required to build a proper hardware platform. Multiple processing elements and on-chip interconnects need to be integrated. As complexity grows there is a demand to efficiently evaluate the performance of the complete system. Due to the complexity and heterogeneity it is no longer feasible to start with a model at the register-transfer level. Abstractions must be found to allow performance evaluation even in the concept phase of the design flow. A system-level performance evaluation framework is required to explore multi-processor architectures and to quantitatively evaluate different design alternatives. Due to a lack of these frameworks, today's architectures exhibit overprovisioning of resources instead of configurability in general or reconfigurability at run-time. This leads to systems that are either designed too pessimistically in order to meet all traffic requirements or too optimistically due to inaccurate approximations of resource utilizations caused by non-deterministic real-life workload. Multi-processor architectures can address non-deterministic workload by reconfigurability that can be expressed, e. g., by load balancing. Thereby, workload is distributed among a number of processing resources. Several approaches exist to exploit load balancing of computing resources within a System-on-Chip (SoC). However, complex network nodes consist of several SoCs and their complexity prevents a quantitative evaluation of system-level load balancing at low abstractions. The above issues are concerned with two main contributions that can be summarized as follows: 1. A system-level performance evaluation framework, named SystemQ, is introduced that provides a high abstraction, i. e. performance abstraction. SystemQ is based on queuing theory and implemented...

-  [Read Performance Evaluation of Parallel Packet-Processing Architectures Using SystemC-based Modeling and Refinement Online](#)
-  [Download PDF Performance Evaluation of Parallel Packet-Processing Architectures Using SystemC-based Modeling and Refinement](#)
-  [Download ePUB Performance Evaluation of Parallel Packet-Processing Architectures Using SystemC-based Modeling and Refinement](#)

## You May Also Like



**[PDF] Shadows Bright as Glass: The Remarkable Story of One Man's Journey from Brain Trauma to Artistic Triumph**

Click the link beneath to get "Shadows Bright as Glass: The Remarkable Story of One Man's Journey from Brain Trauma to Artistic Triumph" PDF document.

[Download ePub »](#)



**[PDF] Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success**

Click the link beneath to get "Six Steps to Inclusive Preschool Curriculum: A UDL-Based Framework for Children's School Success" PDF document.

[Download ePub »](#)



**[PDF] Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products**

Click the link beneath to get "Joey Green's Rainy Day Magic: 1258 Fun, Simple Projects to Do with Kids Using Brand-name Products" PDF document.

[Download ePub »](#)



**[PDF] Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age**

Click the link beneath to get "Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age" PDF document.

[Download ePub »](#)



**[PDF] A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)**

Click the link beneath to get "A Dog of Flanders: Unabridged; In Easy-to-Read Type (Dover Children's Thrift Classics)" PDF document.

[Download ePub »](#)



**[PDF] Sarah's New World: The Mayflower Adventure 1620 (Sisters in Time Series 1)**

Click the link beneath to get "Sarah's New World: The Mayflower Adventure 1620 (Sisters in Time Series 1)" PDF document.

[Download ePub »](#)



**[PDF] Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large**

Click the hyperlink below to get "Dont Line Their Pockets With Gold Line Your Own A Small How To Book on Living Large" file.

[Read ePub »](#)



**[PDF] My Life as an Experiment: One Man s Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests**

Click the hyperlink below to get "My Life as an Experiment: One Man s Humble Quest to Improve Himself by Living as a Woman, Becoming George Washington, Telling No Lies, and Other Radical Tests" file.

[Read ePub »](#)



**[PDF] Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade**

Click the hyperlink below to get "Games with Books : 28 of the Best Childrens Books and How to Use Them to Help Your Child Learn - From Preschool to Third Grade" file.

[Read ePub »](#)



**[PDF] Born Fearless: From Kids' Home to SAS to Pirate Hunter - My Life as a Shadow Warrior**

Click the hyperlink below to get "Born Fearless: From Kids' Home to SAS to Pirate Hunter - My Life as a Shadow Warrior" file.

[Read ePub »](#)



**[PDF] California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Click the hyperlink below to get "California Version of Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package" file.

[Read ePub »](#)



**[PDF] Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)**

Click the hyperlink below to get "Klara the Cow Who Knows How to Bow (Fun Rhyming Picture Book/Bedtime Story with Farm Animals about Friendships, Being Special and Loved. Ages 2-8) (Friendship Series Book 1)" file.

[Read ePub »](#)