

# Problem-solving in High Performance Computing

## A Situational Awareness Approach with Linux

**Igor Ljubuncic**



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# Problem Solving In High Performance Computing A Situational Awareness Approach With Linux

**Karin Nielsen-Saines**



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**Problem-solving in High Performance Computing** Igor Ljubuncic, 2015-09-01 Problem Solving in High Performance Computing A Situational Awareness Approach with Linux focuses on understanding giant computing grids as cohesive systems Unlike other titles on general problem solving or system administration this book offers a cohesive approach to complex layered environments highlighting the difference between standalone system troubleshooting and complex problem solving in large mission critical environments and addressing the pitfalls of information overload micro and macro symptoms also including methods for managing problems in large computing ecosystems The authors offer perspective gained from years of developing Intel based systems that lead the industry in the number of hosts software tools and licenses used in chip design The book offers unique real life examples that emphasize the magnitude and operational complexity of high performance computer systems Provides insider perspectives on challenges in high performance environments with thousands of servers millions of cores distributed data centers and petabytes of shared data Covers analysis troubleshooting and system optimization from initial diagnostics to deep dives into kernel crash dumps Presents macro principles that appeal to a wide range of users and various real life complex problems Includes examples from 24 7 mission critical environments with specific HPC operational constraints

**Resource Management for Big Data Platforms** Florin Pop, Joanna Kołodziej, Beniamino Di Martino, 2016-10-27 Serving as a flagship driver towards advance research in the area of Big Data platforms and applications this book provides a platform for the dissemination of advanced topics of theory research efforts and analysis and implementation oriented on methods techniques and performance evaluation In 23 chapters several important formulations of the architecture design optimization techniques advanced analytics methods biological medical and social media applications are presented These chapters discuss the research of members from the ICT COST Action IC1406 High Performance Modelling and Simulation for Big Data Applications cHiPSet This volume is ideal as a reference for students researchers and industry practitioners working in or interested in joining interdisciplinary works in the areas of intelligent decision systems using emergent distributed computing paradigms It will also allow newcomers to grasp the key concerns and their potential solutions

**Index to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic Awards**, 2006 **Network World**, 2002-01-07 For more than 20 years Network World has been the premier provider of information intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations Readers are responsible for designing implementing and managing the voice data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce *Dissertation Abstracts International*, 2004 **Fault-Tolerance Techniques for High-Performance Computing** Thomas Herault, Yves Robert, 2015-07-01 This timely text presents a comprehensive overview of fault tolerance techniques for high performance computing HPC The text opens

with a detailed introduction to the concepts of checkpoint protocols and scheduling algorithms prediction replication silent error detection and correction together with some application specific techniques such as ABFT Emphasis is placed on analytical performance models This is then followed by a review of general purpose techniques including several checkpoint and rollback recovery protocols Relevant execution scenarios are also evaluated and compared through quantitative models Features provides a survey of resilience methods and performance models examines the various sources for errors and faults in large scale systems reviews the spectrum of techniques that can be applied to design a fault tolerant MPI investigates different approaches to replication discusses the challenge of energy consumption of fault tolerance methods in extreme scale systems     *Automated Installation of Linux High-performance Computing Clusters* Paul Kreiner,2007     *Power and Performance* Jim Kukunas,2015-04-02 Power and Performance Software Analysis and Optimization is a guide to solving performance problems in modern Linux systems Power efficient chips are no help if the software those chips run on is inefficient Starting with the necessary architectural background as a foundation the book demonstrates the proper usage of performance analysis tools in order to pinpoint the cause of performance problems and includes best practices for handling common performance issues those tools identify     **Situation Awareness in Pervasive Computing Systems** ,2013     **A Minimal Linux Environment for High Performance Computing Systems (Presentation).** ,2006

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