#### Technical Report: CS-TR-2006-001

# Reliability-Aware Dynamic Energy Management in Dependable Embedded Real-Time Systems\*

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#### Abstract

Recent studies show that, voltage scaling, which is an efficient energy management technique, has a direct and negative effect on system reliability because of the increased rate of transient faults (e.g., those induced by cosmic particles). In this work, we propose energy management schemes that explicitly take system reliability into consideration. The proposed reliability-aware energy management schemes dynamically schedule recoveries for tasks to be scaled down to recuperate the reliability loss due to energy management. Based on the amount of available slack, the application size and the fault rate changes, we analyze when it is profitable to reclaim the slack for energy savings without sacrificing system reliability. Checkpoint technique is further explored to efficiently use the slack. Analytical and simulation results show that, the proposed schemes can achieve comparable energy savings as ordinary energy management schemes while preserving system reliability. The ordinary energy management schemes that ignore the effects of voltage scaling on fault rate changes could lead to deastically decreased system reliability.

Index Terms: Energy management; Reliability; Real-time systems

<sup>&</sup>quot;A preliminary version of the paper will appear in RTAS 2006. Available at http://www.cs.utsa.edu/"dzhu/papers/RTAS06-zhu.pdf

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How to Write a UTSA CS Division Technical Report Clinton L. Jeffery, University of Texas at San Antonio. Division of Annual International Phoenix Conference on Computers and Communications ,1993 Computer Science, 1996 Annual International Phoenix Conference on Computers and Communications: Conference Proceedings Edwin Sprott Gale Guide to Internet Databases Joanna Zakalik, 1995 Fast access to 2 000 authoritative Internet information sites each fully described 5 easy to use indexes master index to more than 8 000 individual Internet files Includes a list of specialized home pages Internet glossary and bibliography Cover Science of Cyber Security Feng Liu, Jia Xu, Shouhuai Xu, Moti Yung, 2019-12-06 This book constitutes the proceedings of the Second International Conference on Science of Cyber Security SciSec 2019 held in Nanjing China in August 2019 The 20 full papers and 8 short papers presented in this volume were carefully reviewed and selected from 62 submissions. These papers cover the following subjects Artificial Intelligence for Cybersecurity Machine Learning for Cybersecurity and Mechanisms for Solving Actual Cybersecurity Problems e g Blockchain Attack and Defense Encryptions with Cybersecurity Applications Congressional Record United States. Congress, 2010 The Congressional Record is the official record of the proceedings and debates of the United States Congress It is published daily when Congress is in session The Congressional Record began publication in 1873 Debates for sessions prior to 1873 are recorded in The Debates and Proceedings in the Congress of the United States 1789 1824 the Register of Debates in Congress 1824 1837 and the Congressional Globe 1833 1873 Congressional Record Index, Volume Digital Forensics and Cyber Crime Pavel Gladyshev, Sanjay Goel, Joshua James, George 156, A-K, L-Z Congress, Markowsky, Daryl Johnson, 2022-06-03 This book constitutes the refereed proceedings of the 12th International Conference on Digital Forensics and Cyber Crime ICDF2C 2021 held in Singapore in December 2021 Due to COVID 19 pandemic the conference was held virtually The 22 reviewed full papers were selected from 52 submissions and present digital forensic technologies and techniques for a variety of applications in criminal investigations incident response and information security The focus of ICDS2C 2021 was on various applications and digital evidence and forensics beyond traditional cybercrime investigations and litigation **Resources in Education** ,1981 **Low-income and Minority Serving Institutions** United States. Government Accountability Office, 2004 The Voice of Hispanic Higher Education ,1998 Visual Abstracts of Papers Presented to the American Mathematical Society American Information Processing ,2006 Mathematical Society, 1999 Acronyms, Initialisms and Abbreviations Dictionary Mary Rose Bonk, Phyllis Mechanical Engineering ,1982 Spinelli, Pamela Dear, 1999-12 **Resources in Education**, 1981 CORP 2011 Proceedings/Tagungsband Manfred Schrenk, Vasily V. Popovich, Peter Zeile, **AMSTAT News** American Statistical Association.2000 Society for Neuroscience Abstracts Society for Neuroscience. Annual Meeting, 1999 **INFORMS** Annual Meeting Institute for Operations Research and the Management Sciences. National Meeting, 2003

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