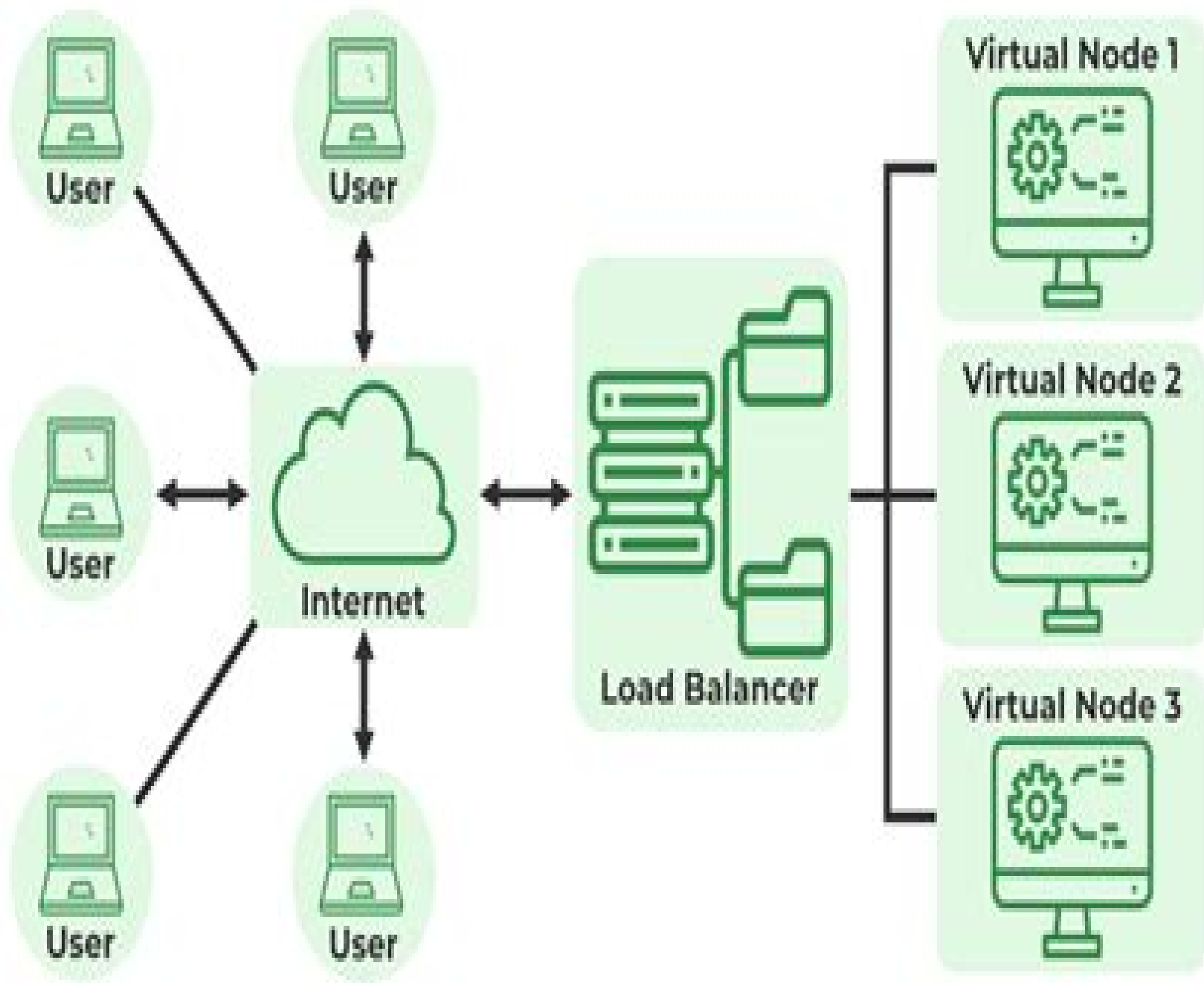




Autonomic Management Of Virtualized Resources In Cloud

Tao Wei



Autonomic Management Of Virtualized Resources In Cloud:

Advances in Service-Oriented and Cloud Computing Antonio Celesti, Philipp Leitner, 2016-04-26 This volume contains the technical papers presented in the seven high quality workshops associated with the European Conference on Service Oriented and Cloud Computing ESOCC 2015 held in Taormina Italy in September 2015 Third International Workshop on Cloud for IoT CLIoT 2015 5th International Workshop on Adaptive Services for the Future Internet WAS4FI 2015 Second Workshop on Seamless Adaptive Multi cloud Management of Service Based Applications SeaClouds 2015 First International Workshop on Cloud Adoption and Migration CloudWay 2015 First International Workshop on Digital Enterprise Architecture and Engineering IDEA 2015 First Workshop on Federated Cloud Networking FedCloudNet 2015 Abstracts of the presentations held at the European Projects Forum EU Projects 2015 are included in the back matter of this volume The 25 full papers and 6 short papers were carefully reviewed and selected from 48 submissions They focus on specific topics in service oriented and cloud computing domains such as limits and or advantages of existing cloud solutions Future Internet technologies efficient and adaptive deployment and management of service based applications across multiple clouds novel cloud service migration practices and solutions digitization of enterprises in the cloud computing era federated cloud networking services

Building a National Distributed E-Infrastructure -- PL-Grid Marian Bubak, Tomasz Szeplieniec, Kazimierz Wiatr, 2012-03-02 This book describes scientific results obtained by project partners and outcomes of research and development activities carried out within the Polish Infrastructure for Information Science Support in the European Research Space PL Grid PL Grid 2011

Cloud Computing for Data-Intensive Applications Xiaolin Li, Judy Qiu, 2014-12-02 This book presents a range of cloud computing platforms for data intensive scientific applications It covers systems that deliver infrastructure as a service including HPC as a service virtual networks as a service scalable and reliable storage algorithms that manage vast cloud resources and applications runtime and programming models that enable pragmatic programming and implementation toolkits for eScience applications Many scientific applications in clouds are also introduced such as bioinformatics biology weather forecasting and social networks Most chapters include case studies Cloud Computing for Data Intensive Applications targets advanced level students and researchers studying computer science and electrical engineering Professionals working in cloud computing networks databases and more will also find this book useful as a reference

On the Move to Meaningful Internet Systems: OTM 2015 Conferences Christophe Debruyne, Hervé Panetto, Robert Meersman, Tharam Dillon, Georg Weichhart, Yuan An, Claudio Agostino Ardagna, 2015-10-29 This volume constitutes the refereed proceedings of the Confederated International Conferences Cooperative Information Systems CoopIS 2015 Ontologies Databases and Applications of Semantics ODBASE 2015 and Cloud and Trusted Computing C TC held as part of OTM 2015 in October 2015 in Rhodes Greece The 30 full papers presented together with 15 short papers were carefully reviewed and selected from 144 initial submissions The OTM program every year covers data and Web

semantics distributed objects Web services databases information systems enterprise workflow and collaboration ubiquity interoperability mobility grid and high performance computing

On the Move to Meaningful Internet Systems: OTM 2016 Conferences Christophe Debruyne, Hervé Panetto, Robert Meersman, Tharam Dillon, Eva Kühn, Declan

O'Sullivan, Claudio Agostino Ardagna, 2016-10-17 This volume constitutes the refereed proceedings of the Confederated International Conferences Cooperative Information Systems CoopIS 2016 Ontologies Databases and Applications of Semantics ODBASE 2016 and Cloud and Trusted Computing C TC held as part of OTM 2016 in October 2016 in Rhodes Greece The 45 full papers presented together with 16 short papers were carefully reviewed and selected from 133 submissions The OTM program every year covers data and Web semantics distributed objects Web services databases information systems enterprise workow and collaboration ubiquity interoperability mobility grid and high performance computing

Euro-Par 2011: Parallel Processing Workshops Michael Alexander, Pasqua D'Ambra, Adam Belloum, George Bosilca, Mario Cannataro, Marco Danelutto, Beniamino Di Martino, Michael Gerndt, Emmanuel Jeannot, Raymond Namyst, Jean Roman, Stephen L. Scott, Jesper Larsson Traff, Geoffroy Vallee, Josef Weidendorfer, 2012-04-14 This book constitutes thoroughly refereed post conference proceedings of the workshops of the 17th International Conference on Parallel Computing Euro Par 2011 held in Bordeaux France in August 2011 The papers of these 12 workshops CCPI CGWS HeteroPar HiBB HPCVirt HPPC HPSS HPCF PROPER CCPI and VHPC focus on promotion and advancement of all aspects of parallel and distributed computing

Green Communications Jinsong Wu, Sundeep Rangan, Honggang Zhang, 2016-04-19 Nowadays energy crisis and global warming problems are hanging over everyone's head urging much research work on energy saving In the ICT industry which is becoming a major consumer of global energy triggered by the telecommunication network operators experiencing energy cost as a significant factor in profit calculations researchers have start *The Future Internet* John Domingue, Alex Galis, Anastasius Gavras, Theodore Zahariadis, Dave Lambert, Frances Cleary, Petros Daras, Srdjan Krco, Henning Müller, Man-Sze Li, Hans Schaffers, Volkmar Lotz, Federico Alvarez, Burkhard Stiller, Stamatis Karnouskos, Susanna Avessta, Michael Nilsson, 2011-04-08 Irrespective of whether we use economic or societal metrics the Internet is one of the most important technical infrastructures in existence today It will be a catalyst for much of our innovation and prosperity in the future A competitive Europe will require Internet connectivity and services beyond the capabilities offered by current technologies Future Internet research is therefore a must This book is published in full compliance with the Open Access publishing initiative it is based on the research carried out within the Future Internet Assembly FIA It contains a sample of representative results from the recent FIA meetings spanning a broad range of topics all being of crucial importance for the future Internet The book includes 32 contributions and has been structured into the following sections each of which is preceded by a short introduction Foundations architectural issues socio economic issues security and trust and experiments and experimental design Future Internet Areas networks services and content and

applications *Standard Handbook for Electrical Engineers, Seventeenth Edition* Surya Santoso, H. Wayne Beaty, 2017-11-24 Up to date coverage of every facet of electric power in a single volume This fully revised industry standard resource offers practical details on every aspect of electric power engineering The book contains in depth discussions from more than 100 internationally recognized experts Generation transmission distribution operation system protection and switchgear are thoroughly explained Standard Handbook for Electrical Engineers Seventeenth Edition features brand new sections on measurement and instrumentation interconnected power grids smart grids and microgrids wind power solar and photovoltaic power generation electric machines and transformers power system analysis operations stability and protection and the electricity market Coverage includes Units symbols constants definitions and conversion factors Measurement and instrumentation Properties of materials Interconnected power grids AC and DC power transmission Power distribution Smart grids and microgrids Wind power generation Solar power generation and energy storage Substations and switch gear Power transformers generators motors and drives Power electronics Power system analysis operations stability and protection Electricity markets Power quality and reliability Lightning and overvoltage protection Computer applications in the electric power industry Standards in electrotechnology telecommunications and IT *Cloud Computing* Thomas Erl, Ricardo Puttini, Zaigham Mahmood, 2013-05-02 Clouds are distributed technology platforms that leverage sophisticated technology innovations to provide highly scalable and resilient environments that can be remotely utilized by organizations in a multitude of powerful ways To successfully build upon integrate with or even create a cloud environment requires an understanding of its common inner mechanics architectural layers and models as well as an understanding of the business and economic factors that result from the adoption and real world use of cloud based services In *Cloud Computing Concepts Technology Architecture* Thomas Erl one of the world's top selling IT authors teams up with cloud computing experts and researchers to break down proven and mature cloud computing technologies and practices into a series of well defined concepts models technology mechanisms and technology architectures all from an industry centric and vendor neutral point of view In doing so the book establishes concrete academic coverage with a focus on structure clarity and well defined building blocks for mainstream cloud computing platforms and solutions Subsequent to technology centric coverage the book proceeds to establish business centric models and metrics that allow for the financial assessment of cloud based IT resources and their comparison to those hosted on traditional IT enterprise premises Also provided are templates and formulas for calculating SLA related quality of service values and numerous explorations of the SaaS PaaS and IaaS delivery models With more than 260 figures 29 architectural models and 20 mechanisms this indispensable guide provides a comprehensive education of cloud computing essentials that will never leave your side *21st Acm Symposium on Operating Systems Principles (Sosp '07)*. , 2009 *An Autonomic Framework Supporting Task Consolidation and Migration in the Cloud Environment* Jiedan Zhu, 2011 Abstract Cloud Computing systems provide a variety of storage and computation resources

One advantage is the pay as you go model where users only pay the fee for the amount of resource they have used. There could be some user specific concerns such as a time constraint and a cost budget. However, without resource scheduling and management in the Cloud environment, virtual instances could be underutilized and users may pay more than expected, which might not satisfy the user requirements. Cloud service providers hide the control of physical resources from users. In this thesis, we designed an autonomic framework which supports task consolidation and light weighted migration over the virtual resources in the Cloud environment. We focus on DAG based workflows and the user constraints are time constraint and cost budget. Our goal is to keep the application to complete within the time constraint while the cost is within the cost budget. We have developed three techniques with different kinds of prior knowledge: the CPU and memory requirements of tasks, iteration structures of workflows, and iteration structures of tasks. We show that our system is effective and can save the cost up to 66% compared with the case when there is no resource scheduling. In addition, we compared system performance with three techniques and we found that with the CPU and memory requirements of tasks as the prior knowledge, our system has a better performance price ratio than the other two prior knowledge.

Autonomic Computing in Cloud Resource Management in Industry 4.0

Tanupriya Choudhury, Bhupesh Kumar Dewangan, Ravi Tomar, Bhupesh Kumar Singh, Teoh Teik Toe, Nguyen Gia Nhu, 2021-08-04. This book describes the next generation of industry Industry 4.0 and how it holds the promise of increased flexibility in manufacturing along with automation, better quality, and improved productivity. The authors discuss how it thus enables companies to cope with the challenges of producing increasingly individualized products with a short lead time to market and higher quality. The authors posit that intelligent cloud services and resource sharing play an important role in Industry 4.0, anticipated Fourth Industrial Revolution. This book serves the different issues and challenges in cloud resource management. CRM techniques with proper proposed solution for IT organizations. The book features chapters based on the characteristics of autonomic computing with its applicability in CRM. Each chapter features the techniques and analysis of each mechanism to make better resource management in cloud.

Optimization of Autonomic Resources for the Management of Service-based Business Processes in the Cloud Leila Haddad, 2018. Cloud Computing is a new paradigm that provides computing resources as a service over the internet in a pay per use model. It is increasingly used for hosting and executing business processes in general and service based business processes SBPs in particular. Cloud environments are usually highly dynamic. Hence, executing these SBPs requires autonomic management to cope with the changes of cloud environments, which implies the usage of a number of controlling devices referred to as Autonomic Managers (AMs). However, existing solutions are limited to use either a centralized AM or an AM per service for managing a whole SBP. It is obvious that the latter solution is resource consuming and may lead to conflicting management decisions while the former one may lead to management bottlenecks. An important problem in this context deals with finding the optimal number of AMs for the management of an SBP, minimizing costs in terms of number of AMs while at the same time avoiding management

bottlenecks and ensuring good management performance Moreover due to the heterogeneity of cloud resources and the diversity of the required quality of service QoS of SBPs the allocation of cloud resources to these AMs may result in high computing costs and an increase in the communication overheads and or lower QoS It is also crucial to find an optimal allocation of cloud resources to the AMs minimizing costs while at the same time maintaining the QoS requirements To address these challenges in this work we propose a deterministic optimization model for each problem Furthermore due to the amount of time needed to solve these problems that grows exponentially with the size of the problem we propose near optimal algorithms that provide good solutions in reasonable time International Aerospace Abstracts ,1997

Collaborative Policy-based Autonomic Management in IaaS Clouds Omid Mola,2013 With the increasing number of machines either virtual or physical in a computing environment it is becoming harder to monitor and manage these resources Relying on human administrators even with tools is expensive and the growing complexity makes management even harder The alternative is to look for automated approaches that can monitor and manage computing resources in real time with no human intervention One of the approaches to this problem is policy based autonomic management However in large systems having one single autonomic manager to manage everything is almost impossible Therefore multiple autonomic managers will be needed and these will need to cooperate in the overall management We propose a management model using multiple autonomic managers organized in a hierarchical fashion to monitor and manage the resources in a computing environment based on provided policies We develop a communication protocol to facilitate collaboration between different autonomic managers define the core operations of these managers and introduce algorithms to deal with their deployment and operation We also introduce an approach for the inference of the communication messages from policies and develop several algorithms for joining and maintaining the management hierarchy We propose a deployment system that can discover relevant resources in a computing environment automatically to facilitate the deployment of autonomic managers at different levels of a physical system We then test our approach by implementing it in a small private Infrastructure as a Service IaaS cloud and show how this collaboration of autonomic managers in a hierarchical way can help to adopt to high stress situations automatically and reduce the SLA violation rate without adding any new resource to the environment **Science**

Citation Index ,1992 Vols for 1964 have guides and journal lists *Autonomic Cloud Resource Management* Cihan Tunc,2015 The power consumption of data centers and cloud systems has increased almost three times between 2007 and 2012 The traditional resource allocation methods are typically designed for high performance as the primary objective to support peak resource requirements However it is shown that server utilization is between 12% and 18% while the power consumption is close to those at peak loads Hence there is a pressing need for devising sophisticated resource management approaches State of the art dynamic resource management schemes typically rely on only a single resource such as core number core speed memory disk and network There is a lack of fundamental research on methods addressing dynamic

management of multiple resources and properties with the objective of allocating just enough resources for each workload to meet quality of service requirements while optimizing for power consumption. The main focus of this dissertation is to simultaneously manage power and performance for large cloud systems. The objective of this research is to develop a framework of performance and power management and investigate a general methodology for an integrated autonomic cloud management. In this dissertation we developed an autonomic management framework based on a novel data structure AppFlow used for modeling current and near term future cloud application behavior. We have developed the following capabilities for the performance and power management of the cloud computing systems: 1 online modeling and characterizing the cloud application behavior and resource requirements; 2 predicting the application behavior to proactively optimize its operations at runtime; 3 a holistic optimization methodology for performance and power using number of cores, CPU frequency and memory amount; and 4 an autonomic cloud management to support the dynamic change in VM configurations at runtime to simultaneously optimize multiple objectives including performance, power, availability, etc. We validated our approach using RUBiS benchmark emulating eBay on an IBM HS22 blade server. Our experimental results showed that our approach can lead to a significant reduction in power consumption: up to 87% when compared to the static resource allocation strategy, 72% when compared to adaptive frequency scaling strategy, and 66% when compared to a multi resource management strategy.

Resource Management in Cloud Computing Sakshi Patni, Deepika Saxena, Ashutosh Kumar Singh, 2025-02-10. This book addresses fundamental concepts and practical implementations in cloud computing environments focusing on load balancing and resource management. As cloud computing's popularity grows, expertise in infrastructure management is crucial for delivering flawless subscription based services and hosted data solutions. The book presents novel models for cloud resource management to improve operational efficiency through better virtual machine (VM) placements. Beginning with task scheduling and resource allocation basics, the book progresses to resource management concepts. It introduces innovative models for dynamic resource allocation, heuristic approaches for optimal host selection, secure resource management frameworks, multi objective VM allocation schemes, and data security models. A significant contribution is an effective model integrating load balancing, resource management, Quality of Service (QoS), security, and cloud performance for Infrastructure as a Service (IaaS). The book offers innovative methodologies for dynamic resource allocation and service administration in cloud datacenters. It presents traffic management techniques to reduce energy consumption, improve resource utilization, and enhance security through optimized VM placement with experimental validation. These models improve response time, throughput, resource utilization, energy consumption, and failure node management. Security is addressed through secure VM placement strategies, making it harder for attackers to achieve co-tenancy. A multi objective approach for secure load balancing optimizes multiple conflicting objectives simultaneously. The book includes cyber threat countermeasures and provides recommendations for organizations and users. Suitable for senior undergraduate and graduate

courses in cloud computing resource allocation security and energy consumption methods the book includes examples and tutorials using Cloudsim tools for beginners This helps them understand virtual infrastructure and service design The methodologies benefit both cloud service providers and customers offering cost effective solutions for revenue maximization The comprehensive approach makes the book valuable for academic study and practical application in cloud computing environments

Towards Autonomic Virtual Machine Management Siddharth Wagh, 2010 Virtual machine technologies are gaining wide acceptance in today's era due to invaluable services in system management server consolidation and secure resource containment along with providing requisite application execution environment Every virtual machine platform reduces dependence on hardware by fully or partially abstracting operating systems enabling flexible control of manipulation or migration of guest machines by manual system administration or reactive proactive approaches to management This dissertation focuses on resolving the resource reservation problem to help define a mathematical model and study interference within multiple virtual machines while trying to achieve load balancing and improve performance efficiency Our goal is three pronged Firstly we aim to understand the underlying support available for virtual machine migration and pursue new technologies or abstractions to improve efficiency and speed of the data transfer Secondly we carefully evaluate all the resources used by VMs for proper functioning and study the synchronization and multiplexing processes underneath which delineate when and where to migrate a virtual machine Finally we attempt to deduce the action to perform on running VMs manipulation or resource configuration so as to resolve the issue at hand To achieve these goals we follow a step by step procedure limiting the number of variable parameters and analyze the outcome of focal experiments The results show that using RDMA Remote Direct Memory Access to perform virtual machine migration can be used only in scenarios where the underlying hardware offers support for such transactions eg InfiniBand architecture and such an abstraction over TCP IP does not ameliorate efficiency of VM transfers Further a utility based function designed to analyze environment and application metrics and project an area of good bad states on a map would require a plethora of parameters increasing its complexity Considering VM re distribution one can predict the ideal number and time of migration of guest virtual machines on any configuration by gathering statistics from parallel migration for graphical analysis Parallel VM migration gives us shorter average transfer time and higher latencies per VM Pinning of virtual CPUs to VMs improves the performance efficiency of applications compared to sharing of CPUs

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