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Architecturen en algoritmen voor netwerk- en dienstbewust Grid-resourcebeheer

Architectures and Algorithms for Network and Service Aware
Grid Resource Management

Bruno Volckaert



Proefschrift tot het bekomen van de graad van
Doctor in de Ingenieurswetenschappen:
Computerwetenschappen
Academiejaar 2005-2006



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Dit werk kwam tot stand in het kader van een specialisatiebeurs van het IWT-Vlaanderen (Instituut voor de aanmoediging van Innovatie door Wetenschap en Technologie in Vlaanderen).



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Dankwoord

dankwoord...

Gent, maart 2006
Bruno Volckaert

Table of Contents

Dankwoord	i
1 Introduction	1-1
1.1 Introduction	1-1
1.2 Outline	1-1
1.3 Publications	1-1
1.3.1 Publications in international journals	1-1
1.3.2 Chapters in international publications	1-1
1.3.3 Publications in international conferences	1-1
1.3.4 Publications in national conferences	1-1
2 Grid Monitoring	2-1
2.1 Introduction	2-1
3 Grid Simulation	3-1
3.1 Introduction	3-1
4 Grid Service Management	4-1
4.1 Introduction	4-1
5 Media Grids	5-1
5.1 Introduction	5-1
6 Overall Conclusion	6-1
A Grid Computing: The Next Network Challenge!	A-1
A.1 Introduction	A-1
B Application-specific hints in reconfigurable Grid scheduling algorithms	B-1
B.1 Introduction	B-1
C Network Aware Scheduling in Grids	C-1
C.1 Introduction	C-1

List of Figures

List of Tables

List of Acronyms

A

ACE	Adaptive Communication Environment
ASAP	As Soon As Possible

C

CDR	Common Data Representation
CM	Connection Manager
CORBA	Common Object Request Broker Architecture
CR	Computational Resource

D

DIT	Directory Information Tree
DN	Distinguished Name
DR	Data Resource

E

EGEE	Enabling Grids for E-Science in Europe
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F

FCFS	First Come First Served
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G

GA	Genetic Algorithm
GGF	Global Grid Forum
GIIS	Grid Information Index Server
GMA	Grid Monitoring Architecture
GRIS	Grid Resource Information Service
GS	Grid Scheduler
GUI	Graphical User Interface

H

HTTP	HyperText Transfer Protocol
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I

IAT	Inter Arrival Time
ILP	Integer Linear Program
IP	Internet Protocol
IS	Information Service
ISP	Internet Service Provider

J

JAMM	Java Agents for Monitoring and Management
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L

LAN	Local Area Network
LCG	LHC Computing Grid
LDAP	Lightweight Directory Access Protocol
LHC	Large Hadron Collider

M

MAN	Medium Area Network
MDS	Globus Monitoring and Discovery Service
MPLS	MultiProtocol Label Switching

N

NWS	Network Weather Service
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O

OGSA	Open Grid Services Architecture
OGSI	Open Grid Services Infrastructure

Q

QoS	Quality of Service
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R

R-GMA	Relational Grid Monitoring Architecture
RM	Replica Manager
RTT	Round Trip Time

S

SM	Service Manager
SMON	Service Monitor
SOAP	Simple Object Access Protocol
SQL	Standard Query Language

SR Storage Resource

T

TCP Transport Control Protocol
TIO Tivoli Intelligent Orchestrator
TPM Tivoli Provisioning Manager

U

UDP User Datagram Protocol

V

VO Virtual Organisation
VPG Virtual Private Grid
VPN Virtual Private Network

W

WAN Wide Area Network
WS-IS Web Service Information Service
WSDL Web Service Description Language
WSRF Web Service Resource Framework

X

XML eXtensible Markup Language

1

Introduction

1.1 Introduction

1.2 Outline

1.3 Publications

1.3.1 Publications in international journals

1.3.2 Chapters in international publications

1.3.3 Publications in international conferences

1.3.4 Publications in national conferences

2

Grid Monitoring

2.1 Introduction

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3

Grid Simulation

3.1 Introduction

Write text here

4

Grid Service Management

4.1 Introduction

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5

Media Grids

5.1 Introduction

insert text...

6

Overall Conclusion

insert conclusion here



Grid Computing: The Next Network Challenge!

B. Volckaert, P. Thysebaert, M. De Leenheer, F. De Turck, B. Dhoedt, P. Demeester

published in *The Journal of The Communications Network (Proceedings of FITCE 2004)*, 43rd European Telecommunications Congress, 2004, Vol. 3, pp. 159-165.

Abstract abstract

A.1 Introduction

Start text here...

B

Application-specific hints in reconfigurable Grid scheduling algorithms

B. Volckaert, P. Thysebaert, F. De Turck, B. Dhoedt, P. Demeester

published in **Lecture Notes in Computer Science (LNCS 3038)**, Computational Science, Proceedings P3 of ICCS 2004, Springer-Verlag Berlin Heidelberg 2004, Krakow, 2004, Vol. LNCS 3038, pp. 149-157.

Abstract *abstract...*

B.1 Introduction

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C

Network Aware Scheduling in Grids

B. Volckaert, P. Thysebaert, M. De Leenheer, F. De Turck, B. Dhoedt, P. Demeester

published in Proceedings of NOC2004, 9th European Conference on Networks & Optical Communications, TU Eindhoven, 2004, pp. 311-318.

Abstract abstract

C.1 Introduction

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