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Part A

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QUEENSLAND UNIVERSITY OF TECHNOLOGY
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Wednesday 3 February 1993  9:00am

Plenary Session
Official Opening:
The Honourable W K Goss M.L.A., Premier of Queensland
Invited Speaker:
Professor Richard Rashid, Microsoft Corporation and Carnegie Mellon University,
  *Operating Systems Past, Present and Future: from the Alto to the Gigahertz
  Nintendo* (Abstract)  

Wednesday 3 February 1993 11:00am

DISTRIBUTED & PARALLEL COMPUTING

*Polynomial Matrix Inversion in the Connection Machine Using Data Parallel Evaluation-Interpolation*
E V Krishnamurthy, Chen Pin  

*Parallel Solution of Partial Differential Equations Using a Locally One-Dimensional Method*
Chen Lujuan, Iain Macleod, E V Krishnamurthy  

*Parallel Implementation of Eigenvalue Algorithms on Distributed Memory Machines*
B B Zhou, R P Brent  

*Improving Granularity and Locality of Data Structures in Multiprocessor Execution of Functional Programs*
Piyush Maheshwari

GENERAL

*Using Soliton Circuits to Build Molecular Memories*
Michael P Groves, Christopher F Carvalho, Christopher D Marlin, Rolf H Prager

*Self Organisation based scheduling and binding algorithm for High Level Synthesis of digital circuits*
Adam Postula, Ahmed Hemani, Suresh Hungenahally  

*A Self-Contained Dynamically Reconfigurable Processor Architecture*
Michael Saleeba  

*AKAROA: a package for Automating Generation and Process Control of Parallel Stochastic Simulation*
Victor Yau, Krzysztof Pawlikowski
GENERAL

Integrating Reflection, Strong Typing and Static Checking
D Stemple, R Morrison, G N C Kirby, R C H Connor

Modelling Object Identity
Roger Duke, Gordon Rose

Type Extension and Efficient AST Manipulation
K John Gough, Diane Corney

A Formal Definition of the Dynamic Semantics of the Eiffel Language
Isabelle Attali, Denis Caromel, Michael Oudshoorn

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DISTRIBUTED & PARALLEL COMPUTING

Constant Time Sorting on a Reconfigurable Mesh
Ashish Kapoor, Heiko Schröder, Bryan Beresford-Smith

On the utilisation of data duplication to accelerate the SORT operation on
mesh architectures
Hossam ElGindy

A Parallel Transitive Closure Algorithm for SIMD Meshes
Xiaofang Zhou, Yanchun Zhang, Maria E Orlowska

COMPUTER SECURITY

Automated Cryptanalysis of Substitution Ciphers
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Permutations Based on Single Pseudorandom Functions
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Audit-by-Receiver Paradigms For Verification of Authorization at Source of
Electronic Documents
Selwyn Russell

GENERAL

Coroutining and the construction of terminating logic programs
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Applying the Andorra principle
Lee Naish

An application of logic programming in pure mathematics
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