

NOSSDAV 96

Schedule

Tuesday, April 23, 1996

16:00-19:00	Conference Registration
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19:00-21:30	Opening Reception
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Wednesday, April 24, 1996

7:30-8:30	Breakfast Buffet
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8:30-8:45	Introduction Workshop Chairs Hide Tokuda
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8:45-10:15	<p>Technical Sessions I "Networking" Session Chair: Hiroshi Yasuda (NTT)</p> <ul style="list-style-type: none"> • <i>Should an Integrated-Services Internetwork be Connectionless or Connection-Oriented?</i> Domenico Ferrari (Universita` Cattolica) • <i>Retransmission-Based Error Control for Continuous Media Applications</i> Christos Papadopoulos and Guru M. Parulkar (Washington University) • <i>Decentralized End-to-End Scheduling for Continuous Multimedia</i> J. Huang, Y. Wang, and D. Kenchamma-Hosekote (Honeywell Technology Center)
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10:15-10:30	Break
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10:30-12:00	<p>Technical Sessions II "OS Support for Network Subsystems" Session Chair: Domenico Ferrari (Universita` Cattolica)</p> <ul style="list-style-type: none"> • <i>Multimedia Network Subsystem Design</i> See-Mong Tan, Willy S. Liao, and Roy H. Campbell (University of Illinois at Urbana-Champaign)
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Server Based Flow Control in A Distributed Continuous Media Server

Gerald Neufeld, Dwight Makaroff, and Norman Hutchinson (University of British Columbia)

- *Native-Mode ATM in FreeBSD: Experiences and Performance*

A. Jain and S. Keshav (Bell Laboratories)

12:00-
13:00

Lunch

13:00-
14:30Technical Sessions III "**ATM**"

Session Chair: Guru Parulkar (Washington University)

- *An Empirical Evaluation of Adaptive QOS Renegotiation in ATM networks*

K. Lakshman and Raj Yavatkar (University of Kentucky)

- *SEAM: Scalable and Efficient ATM Multipoint-to-Multipoint Multicasting*

Matthias Grossglauser (INRIA) and K. K. Ramakrishnan (Bell Laboratories)

- *ATM Virtual Studio Services*

Christian Breiteneder, Simon Gibbs, Wolfgang Heiden, Manfred Kaul, Karl Jonas, and Dirk Steinberg (German National Research Center for Information Technology)

14:30-
15:00

Break

15:00-
16:30Technical Sessions IV "**Congestion Control**"

Session Chair: Norman Hutchinson (University of British Columbia)

- *Support for Compressed Video with Explicit Rate Congestion Control in ATM Networks*

K. K. Ramakrishnan, T. V. Lakshman, Partho Mishra (AT&T Bell Laboratories)

- *A Router-Based Congestion Control Scheme For Real-Time Continuous Media*

Mark Parris, Kevin Jeffay, Teny Talley, and F. Donelson Smith (University of North Carolina)

- *Why WFQ Is Not Good Enough For Integrated Services Networks*

Jon C.R. Bennett (FORE Systems) and Hui Zhang (Carnegie Mellon University)

16:30-
17:00

Break

17:00-
19:00Work in progress Sessions "**Multicasting, ATM, and Quality of Service**"

Session Chair: Daniel Swinehart (Xerox PARC)

- *Multicast Protocol for Continuous media*

Yuko Onoe (NTT Information and Communication Systems Laboratories) and Hideyuki Tokuda (Keio University)

- *Admission Control Algorithms for Multicast Sessions with Multiple Streams*

Nachum Shacham and Hidetoshi Yokota (SRI International)

- *Improved performance for multi-party communication through advance reservations*

Amit Gupta (University of California Berkeley)

- *Transmission Characteristics of MPEG2 Encoded Super High Definition Images*

Katsuhiro ISHIMARU, Tetsuro FUJII, Tomoko SAWABE, Junji SUZUKI, and Sadayasu ONO (NTT Optical Network Systems Laboratories)

- *Design and Implementation of a Versatile Multimedia Network Interface and I/O Chip*

Zubin D. Dittia, Jerome R. Cox, Jr., and Guru M. Parulkar (Washington University in St. Louis)

- *A Practical and Economical Approach for Resource Allocation*

Fukiko Hidano (University of California Berkeley)

- *An Advanced Reservation-based Admission Control Algorithm for Video-On-Demand Server*

Sooncheol Kim and Yookun Cho (Seoul National University)

- *Discrete-Time Interval Based Predictor Algorithms for End-to-End Performance*

Girish Chiruvolu, Ken Christensen, and Ravi Sankar (University of South Florida)

- *Usage Parameter Control Support for Audio and Video Communications*

Guang-Liang LI (Academia Sinica)

- *Agora --- A Personalized Digital Newsfeed*

Eoin Hyden and Cormac J. Sreenan (Bell Laboratories)

19:00-
20:30

Dinner

Thursday, April 25, 1996

7:30-
8:30

Breakfast Buffet

8:30-
10:00

Technical Sessions V "**Video on Demand Servers**"

Session Chair: Duane Northcutt (Sun Microsystems Laboratories)

- *The Tiger Video Fileserver*

William J. Bolosky and Michael B. Jones (Microsoft Research)

- *Video on Demand on the SB-PRAM*

Joerg Friedrich, Thomas Gruen and Joerg Keller (Universitaet des Saarlandes)

- *I/O Channel and Real-Time Disk Scheduling for Video Servers*

Shenze Chen and Manu Thapar (Hewlett-Packard Labs)

10:00-10:30	Break
10:30-12:00	<p>Technical Sessions VI "Storage Architectures" Session Chair: Mike Jones (Microsoft Research)</p> <ul style="list-style-type: none"> • <i>Video Pump Design for Interoperability with Set Top Units: The Case Against Small PDUs.</i> Stephen Jacobs and Alexandros Eleftheriadis (Columbia University) • <i>A Content Based Approach to VBR Video Source Modeling</i> Paul Bocheck and Shih-Fu Chang (Columbia University) • <i>On Evaluating the Cost-Performance Characteristics of Disk Storage Systems Supporting Continuous Media</i> D. Venkatesh and T.D.C. Little (Boston University)
12:00-13:00	Lunch
13:00-17:00	Excursion (To Kamakura)
17:30-18:30	PC Meeting
18:30-20:00	Banquet
20:00-22:00	<p>Work in progress Sessions "Operating Systems Support" Session Chair: Steve Pink (Swedish Institute of Computer Science)</p> <ul style="list-style-type: none"> • <i>Comparative Evaluation of Server-push and Client-pull Architectures</i> Sriram S. Rao, Harrick M. Vin, and Ashis Tarafdar (University of Texas at Austin) • <i>A Network Striped Storage System for Video on Demand</i> Feng Shi (University of Cambridge) • <i>Continuous Media Storage System supporting Constant Frame Rate with Variable Bit Rate Streams</i> Tatsuo Nakajima and Hiroshi Tezuka (Japan Advanced Institute of Science and Technology) • <i>Effective Utilization of Disk Bandwidth for Supporting Video-On-Demand</i> Yen-Jen Oyang, Chih-Yuan Cheng, Meng-Huang Lee, Fu-Ching Wang, and Chun-Hung Wen (National Taiwan University) • <i>State-based Buffer-Cache Design for a Multimedia File System</i> Thirumale N. Niranjan and Gerhard A. Schloss (State University of New York at Stony Brook) • <i>QOS Translation and Session Coordination Technique for Multimedia Systems</i>

Nobuhiko NISHIO and Hideyuki TOKUDA (Keio University)

- *Memory and Disk Bandwidth Management in Video-on-Demand Servers*

Fu-Ching Wang, Chih-Yuan Cheng, Meng-Huang Lee, Chun-Hung Wen, Tzu-How Lin, Szu-Chi Wang, and Yen-Jen Oyang (National Taiwan University)

- *Soft Real-Time Handling Methods in a Soft Real-Time Framework*

Changpeng Fan (German National Research Center for Information Technology)

- *Load Balancing and VCR Functionalities Support via Subband Coding Techniques*

John C.S. Lui and K.W. Law (The Chinese University of Hong Kong)

- *Guaranteeing the Execution of User-Level Real-Time Threads*

Shuichi Oikawa and Hideyuki Tokuda (Keio University)

- *Performance Evaluation of Extended X-Window System for Video Applications*

Seiji Tada (Hewlett-Packard Japan)

Friday, April 26, 1996

7:30-
8:30
Breakfast Buffet

8:30-
10:00
Technical Sessions VII "**QOS Control**"
Session Chair: Kevin Jeffay (University of North Carolina at Chapel Hill)

- *Q-Thread: A New Execution Model for Dynamic QOS Control of Continuous-Media Processing*
Kiyokuni KAWACHIYA (IBM Research Tokyo Research Laboratory) and Hideyuki TOKUDA (Keio University)
- *Timing Control of Stream Handlers in a Distributed Multi-Threaded Environment*
Tobias Helbig (University of Stuttgart)
- *Scalable Multimedia-On-Demand via World-Wide-Web (WWW) with QOS Guarantees*
Milind M. Buddhikot, Gurudatta M. Parulkar, and R. Gopal (Washington University)

10:00-
10:30
Break

10:30-
12:00
Technical Sessions VIII "**Mobile environment and Real-Time Window Systems**"
Session Chair: Hideyuki Tokuda (Keio University)

- *Handling Continuous Media in Mobile Computing Environment*
Akihiro Hokimoto and Tatsuo Nakajima (Japan Advanced Institute of Science and Technology)

- *Soft State Header Compression for Wireless Networks*

Mikael Degermark (Lulea University) and Stephen Pink (Swedish Institute of Computer Science)

- *Quantitative Window System Engineering*

John E. Sasinowski and Jay K. Strosnider (Carnegie Mellon University)

12:00-
13:00

Lunch

13:30

Workshop ends

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