Contributors to this Issue

Mustaque Ahamad received his B.E. (Hons.) degree in Electrical Engineering from the BITS Pilani, India. He obtained his M.S. and Ph.D. degrees in Computer Science from the State University of New York at Stony Brook in 1983 and 1985 respectively. Since September 1985, he has been an assistant professor in the School of Information and Computer Science at the Georgia Institute of Technology. His research interests include distributed operating systems, distributed algorithms, fault-tolerant systems and performance evaluation.

James L. Alberi received his Sc.B. from Brown University and Ph.D. in physics from Harvard University. He worked for 10 years at Brookhaven National Laboratory where his activities included nuclear-instrumentation research, and the design of systems for automated data collection and experiment control. Since joining Bell Laboratories in 1982 and subsequently Bellcore, his interests are parallel processing in database systems and the design of distributed operating systems.

R. Ananthanarayanan is currently a graduate student at Georgia Institute of Technology in the Ph.D. program. He holds a Masters degree in Computer Science from Indian Institute of Technology, Kanpur and a Bachelors in Computer Science and Engineering from Anna University, Madras.

Bill Appelbe is currently an Associate Professor at Georgia Tech. He received his Ph.D. from the University of British Columbia. His current research interests include software engineering, automatic software parallelization, and programming languages.

Tim Becker is a member of the software technical staff at the Computer Science Department of the University of Rochester. In addition to his work on the Psyche operating system project, he has been employed in both industry and academia as a UNIX programmer, system administrator, and manager. He is a graduate of the Pennsylvania State University, where he received the B.S.

degree in Industrial and Management Systems Engineering in 1980.

José M. Bernabéu-Aubán received his Ph.D. in Information and Computer Science in 1988 from Georgia Tech and is currently on the faculty of the Department of Information Systems and Computation at the Polytechnic University of Valencia, Spain. His dissertation work involved analytical and practical techniques for efficient resource location in distributed systems.

Joseph Boykin is the Manager of Mach Operating System Development with Encore Computer Corp. Under contract to DARPA, this group is currently porting Mach to the 1,000 MIPS Gigamax symmetric shared memory multiprocessor. Prior to managing the group, Mr. Boykin was the Principal Engineer in charge of the parallelization of Mach. Mr. Boykin is the author of several papers on the parallelization of the Mach operating system.

Prior to joining Encore Computer Mr. Boykin worked as the Senior Partner in a software consulting firm. Previous to that he was employed as a Project Leader at Data General Corp., where he led a group designing and implementing a multi-processor 68000 based UNIX workstation running System V UNIX.

Mr. Boykin holds both an M.S. in Computer Science and an M.A. in Psychology. His graduate work was done at the Ohio State and Pennsylvania State Universities.

Raymond C. Chen is a currently a Ph.D. student in the Clouds Project at Georgia Tech. His research interests include operating systems, persistent memory systems, parallel and distributed systems, and reliable computation. His dissertation work is focused on consistency mechanisms and memory semantics for reliable persistent object-based distributed computing. He received a Bachelor of Science in Electrical Engineering/Computer Science from Princeton University in 1985.

Partha Dasgupta is an Assistant Professor at Georgia Tech and the project director of the Clouds operating system project. He graduated in 1984 from the State University of New York at Stony Brook with a Ph.D. in Computer Science.

Cezary Dubnicki is a graduate of Warsaw University, Poland, where he received the Magister degree in Computer Sciences in 1985. He is now a graduate student in the Department of Computer Science at the University of Rochester. His areas of interest include operating systems and programming languages for parallel and distributed computing. He is involved in work on virtual memory management for Rochester's Psyche parallel operating system project.

Phil Hutto is currently a Ph.D. student at Georgia Tech. His research interests include consistency requirements for shared memories, particularly weakly-consistent memories for use in distributed shared memory systems. He received a Masters of Science in Information and Computer Science from Georgia Tech in 1985, and a Bachelor of Arts from Brown University in 1983.

M. Yousef A. Khalidi received his Ph.D. in Information and Computer Science from Georgia Tech in 1989. While at Georgia Tech he was involved in the design and implementation of the Ra kernel and the distributed shared memory system. Currently he is at Sun Microsystems where he is involved in distributed operating system R&D.

Alan Langerman is a Principal Software Engineer with Encore Computer Corporation's Mach project. He is writing a book about Mach.

Richard J. LeBlanc, Jr. is a Professor in the School of Information and Computer Science at Georgia Tech. His research interests include programming language design and implementation, programming environments, and software engineering. Dr. LeBlanc's current research work in the Clouds project involves studying language concepts and software engineering methodology for utilizing a highly reliable, object-based distributed system. He

received his Ph.D. in Computer Sciences from the University of Wisconsin – Madison in 1977.

Tom LeBlanc received the B.S. degree from the State University of New York and the M.S. and Ph.D. degrees from the University of Wisconsin – Madison, all in computer science. He is currently an Associate Professor in the Computer Science Department of the University of Rochester, which he joined in 1983. His research interests include multiprocessor operating systems, parallel program debugging, and parallel programming environments. He is co-leader of the Psyche multiprocessor operating system project, and the PPUTTs debugging and performance analysis toolkit project. In 1987 he was named an Office of Naval Research Young Investigator.

Evangelos Markatos is a graduate of the University of Patras, Greece, where he received the Ptyhio degree in Computer Engineering in 1988. He is now a graduate student at the University of Rochester studying towards a Ph.D. in Computer Science. His research interests include operating systems, real-time systems, and algorithmics.

Brian Marsh received the A.B. degree in Computer Science from the University of California, Berkeley in 1985 and the M.S. in Computer Science from the University of Rochester in 1988. He is currently a Ph.D. candidate at the University of Rochester. His research interests include operating systems and programming languages for large-scale parallel processors.

Henry Massalin is finishing his Ph.D. in Computer Science at Columbia University. His dissertation concerns the design and implementation of the Synthesis operating system. His research interests include operating systems, real-time systems, compilers, and computer music synthesis. He received a B.S. and an M.S. in Electrical Engineering from The Cooper Union, where he is currently an adjunct faculty member. Henry is a recipient of the 1987-88 fellowship from the USENIX Association and a 1989-90 IBM Special Scholarship.

Sathis Menon is a Research Scientist in the Distributed Systems Group at Georgia Tech. He graduated in 1984, with a Masters Degree in Computer Science, from the New Jersey Institute of Technology. Prior to joining the Clouds Project in 1988, he worked in the UNIX Development Lab at AT&T Bell Labs.

Mark P. Pearson is currently a Ph.D. student in the Clouds Project at Georgia Tech. His research interests include distributed operating systems, programming environments for distributed systems, and computer integrated manufacturing systems. He received a M.S. degree in Information and Computer Science from Georgia Tech in 1990, and a B.E. degree in Electrical Engineering and Computer Science from Vanderbilt University in 1985.

Calton Pu was born in Taiwan, but grew up in Brazil. After receiving his Ph.D. in Computer Science from University of Washington in 1986, he became an assistant professor in the Department of Computer Science at Columbia University. Currently, he is leading two research projects. The Harmony project has two aspects: superdatabases that provide atomic transactions across heterogeneous database boundaries, and high performance query/transaction processing in very large distributed databases. The Synthesis distributed operating system combines an orthogonal high-level kernel interface with efficient execution obtained from dynamic kernel code generation. Both the Synthesis kernel and the superdatabase are being built at Columbia. Some of his other research interests include extended transaction models for long, open-ended activities and measurement of distributed transactions over wide-area networks.

Marc F. Pucci received his degrees in Electrical Engineering from Polytecnhic Institute of Brooklyn. He joined the staff of Bell Laboratories in 1976, where he worked on computer hardware and operating systems, including extensions to the UNIX operating system. With the divestiture of the Bell System, he joined Applied Research at Bellcore and has been working on distributed and multiprocessor systems. His current research interests include multiprocessor operating systems, I/O device protocols and object stores.

Umakishore Ramachandran received his Ph.D. degree in computer science from the University of Wisconsin – Madison in 1986. Since then he has been an Assistant Professor in the School of Information and Computer Science at the Georgia Institute of Technology. His primary interests are in computer architecture, and distributed operating systems.

Michael Scott is a graduate of the University of Wisconsin – Madison, where he received the B.A. degree in Mathematics and Computer Sciences in 1980, and the M.S. and Ph.D. degrees in Computer Sciences in 1982 and 1985, respectively. He in now an Assistant Professor in the Department of Computer Science at the University of Rochester. His research focuses on programming languages, operating systems, and program development tools for parallel and distributed computing. He is co-leader of Rochester's Psyche parallel operating system project and the recipient of a 1986 IBM Faculty Development Award.

Neil Smithline is a graduate of the State University of New York at Buffalo, where he received the B.S. degree in Computer Sciences in 1987. He received an M.S. degree in Computer Sciences from the University of Rochester in 1989 and is currently working towards his Ph.D. His research focuses on parallel program debugging and operating systems.

Chris Wilkenloh is currently a Research Scientist in the Distributed Systems Group at Georgia Tech. He graduated in 1989 with a Masters Degree in Information and Computer Science from Georgia Tech.