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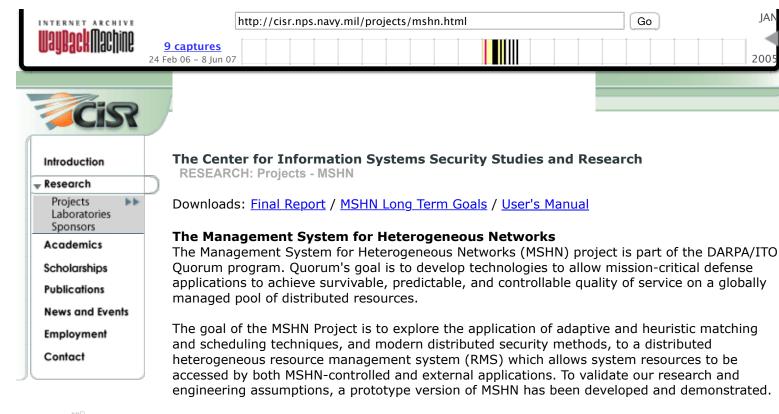
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A complete description of the MSHN technical program is found in the research papers. The <u>Final</u> <u>Report</u> provides both a high-level overview of the MSHN technical program and a reference guide to the research papers.

The MSHN Project began in 1997, under the direction of Dr. Debra Hensgen. In the fall of 1999, Dr. Cynthia Irvine took on oversight for MSHN. The primary project contract concluded on March 31, 2000

MSHN Publications

"An Overview of the Management System for Heterogeneous Networks (MSHN), 8th Workshop on Heterogeneous Computing Systems (HCW '99)", San Juan, Puerto Rico, Apr. 1999 (PDF)

Kim, J-K, Hensgen, D.A., Kidd, T., Siegel, H.J., St. John, D., Irvine, C. E., Levin, T., Porter, N.W., Prasanna, V.K., and Freund, R.F., "A QoS Performance Measure Framework for Distributed Heterogeneous Networks", Proceedings of the 8th Euromicro Workshop on Parallel and Distributed Processing, Rhodos, Greece, pp. 18-27, January 2000 (PDF)

MSHN's Client Library

"Passive, Domain-Independent, End-to-End Message Passing Performance Monitoring to Support Adaptive Applications in MSHN", 8th International Symposium on High Performance Distributed Computing (HPDC), Aug. 1999 (PDF)

"Design, Implementation, and Testing of MSHN's Application Resource Monitoring Library" Masters Thesis, Naval Postgraduate School, Monterey, CA, Dec. 1998 (PDF)

Howard Jay Siegel and Shoukat Ali, "Techniques for Mapping Tasks to Machines in Heterogeneous Computing Systems", Euromicro Journal of Systems Architecture, Special Issue on Heterogeneous Distributed and Parallel Architectures: Hardware, Software and Design Tools, Vol.46, No.8, pp. 627-639, June 2000 (PDF)

Shoukat Ali, S., "A Comparative Study of Dynamic Mapping Heuristics for a Class of Independent

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Prashanth B. Bhat, C.S. Raghavendra, and Viktor K. Prasanna, "Efficient Collective Communication in Distributed Heterogeneous Systems", The 19th International Conference on Distributed Computing Systems (ICDCS), 1999 (PDF)

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Taylor Kidd and Debra Hensgen, "Why the Mean is Inadequate for Accurate Scheduling Decisions" Proceedings of the 3rd International Symposium on Parallel Architectures, Algorithms, and Networks (ISPAN'99), Perth, Australia, Jun. 1999.

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Prashanth B. Bhat, Viktor K. Prasanna, and C.S. Raghavendra, "Block-Cyclic Redistribution over Heterogeneous Networks", The 11th International Conference on Parallel and Distributed Computer Systems, Sep. 1998, pp. 242-249 (PDF)

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MSHN's Monitoring

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Kresho, J.P., "Quality Network Load Information Improves Performance of Adaptive Applications", Masters Thesis, Naval Postgraduate School, Monterey, CA, Sep. 1997 (PDF)

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Muthucumaru Maheswaran, Kevin J. Webb, and Howard Jay Siegel, "Reducing the Synchronization Overhead in Parallel Nonsymmetric Krylor Algorithms on MIMD Machines", 1998 International Conference on Parallel Processing (ICPP '98), Minneapolis, MN, Aug. 1998, pp. 405-413.

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David St. John, Taylor Kidd, Debra Hensgen, Mantak Shing, Shirley Kidd, "Experiences Using Semi-Formal Methods During Development of Distributed, Research-Oriented, System-Level Software", Naval Postgraduate School, Monterey, CA, Technical Report, May 1999 (<u>PDF</u>)

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