

Stony Brook News

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For Immediate Release

NSF Funds Runtime Optimization Project at Stony Brook University

Computer engineering professor Erez Zadok receives \$400,000 to investigate techniques that will speed up performance of user applications in runtime execution environments.

STONY BROOK, NY - October 1, 2002 The NSF has awarded \$400,000 to Stony Brook professor Erez Zadok on a computer science project titled, "An In-Kernel Runtime Execution Environment for User-Level Programs." The project will investigate techniques that will speed up the performance of user applications, especially through path optimization and elimination of unnecessary data copies. Such optimizations are useful for small wireless devices that do not have a lot of memory in them. The research also takes into account the safety and security of the running code. This is also useful for wireless devices because they do not have enough resources to run a full-blown operating system.

This important research program comes at a critical time for Stony Brook's newly unveiled Center of Excellence in the Wireless Internet and Information Technology proclaimed by Governor Pataki on August 2, 2002 at a special press conference at Stony Brook University. The industry-driven Center represents a total investment of \$230M from state, federal and private sources and is expected to create thousands of high tech jobs throughout New York State.