Project #: 9807-04 Wireless Networks of Devices
Hari Balakrishnan and John Guttag

Project Overview

- Device network architecture
  - Decentralized, robust, distributed
- Resource discovery, mobility
  - Intentional naming system
- Location-dependent applications
  *Floorplan* active map, *Camera* (mobile camera service), *TV/Jukebox*,...
  - Location-support system
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Progress Through December 1999

- Design and prototype implementation of location-support system
  - *Cricket* location-support system based on RF and ultrasound
  - Privacy, decentralization, low cost

- Integrating Jini with INS
  - To handle mobility and fault-tolerance of Jini services
Research Plan for the Next Six Months

• Implement applications using Cricket
• Experimental evaluation of Cricket location-support system
• Implement Jini service discovery using INS
• End-to-end IP mobility protocol
• Wide-area service discovery