MICHIGAN STATE UNIVERSITY

Alpha Presentation BAPS: Battle Aircraft Position Share

The Capstone Experience

Team Boeing

Adam Cook Steven Garske Andrew Kos Eric Muller

Department of Computer Science and Engineering Michigan State University

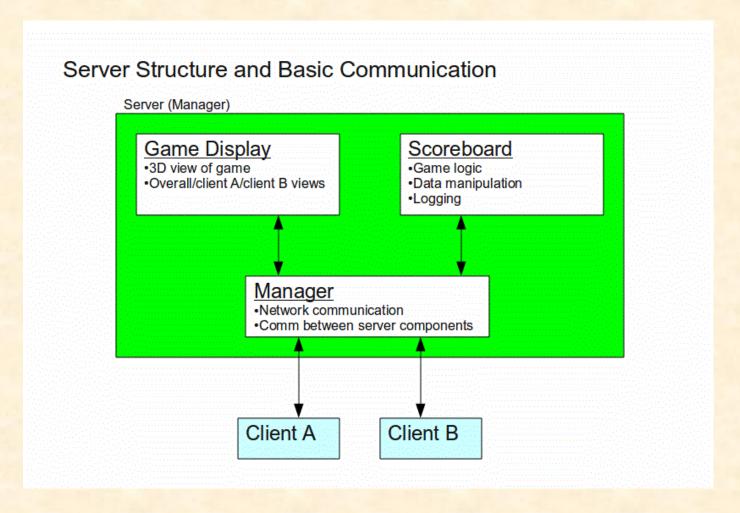
Spring 2011



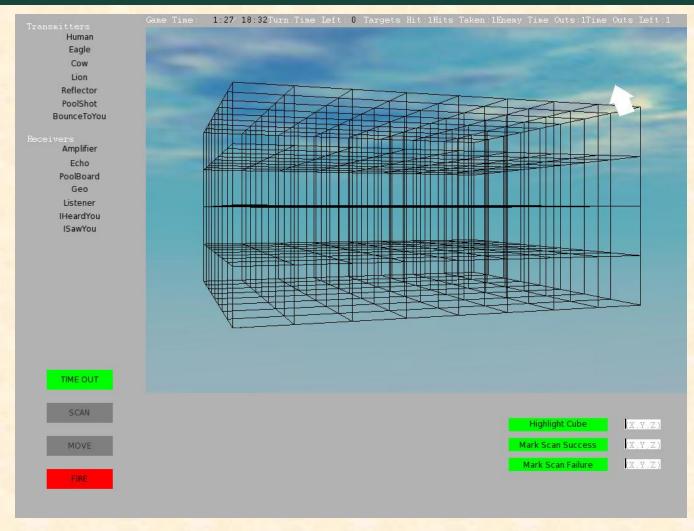
Project Overview

- Client: Jayson T. Vincent in St. Louis, Missouri
- Combination of battleship, chess, and billiards
- Players use radar scans to find enemy targets
- Firing is turn-based
- Scanning and movement in real time
- Weather affects scanning
- Deal with information overload

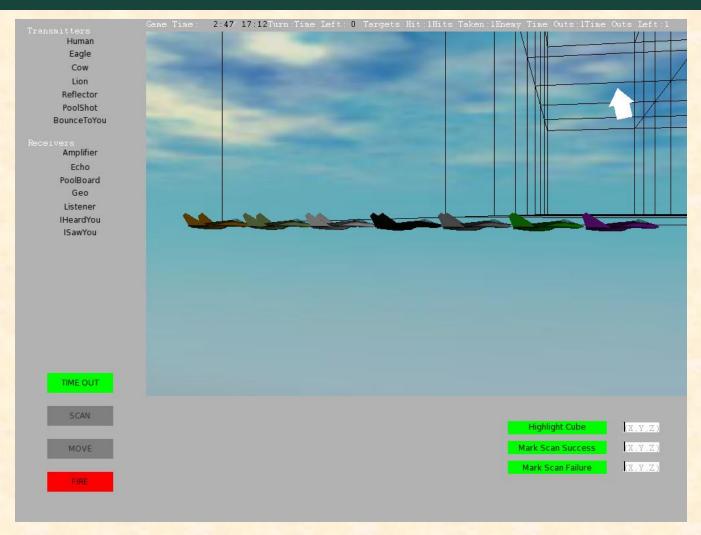
System Architecture



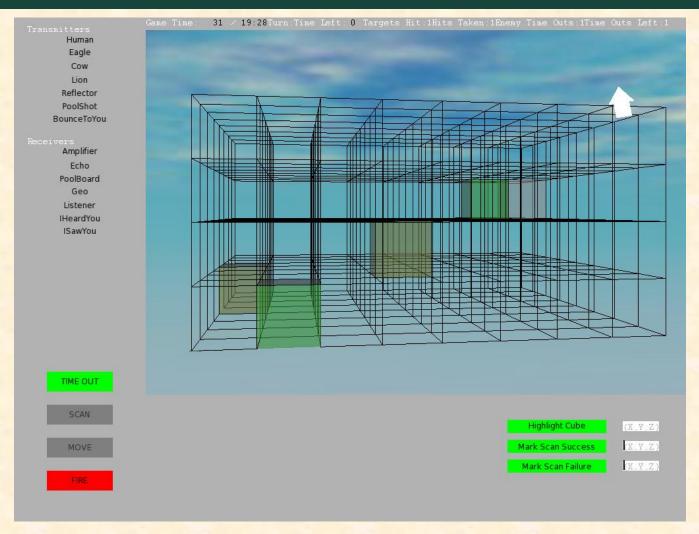
Main Game Board View



Player Transmitters

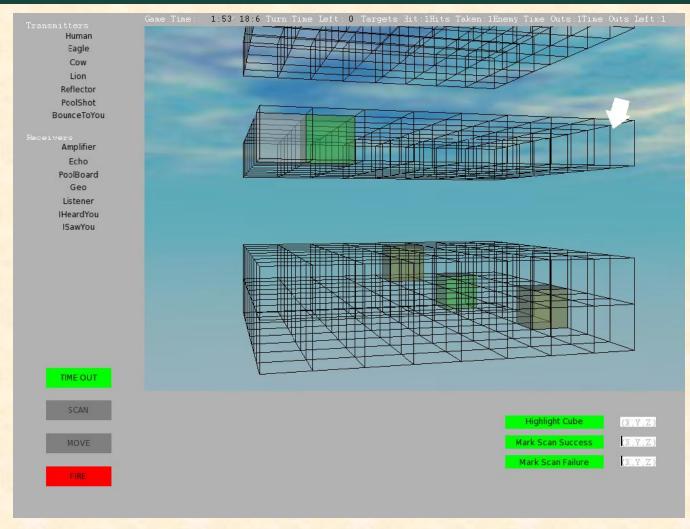


Game Board Highlighting

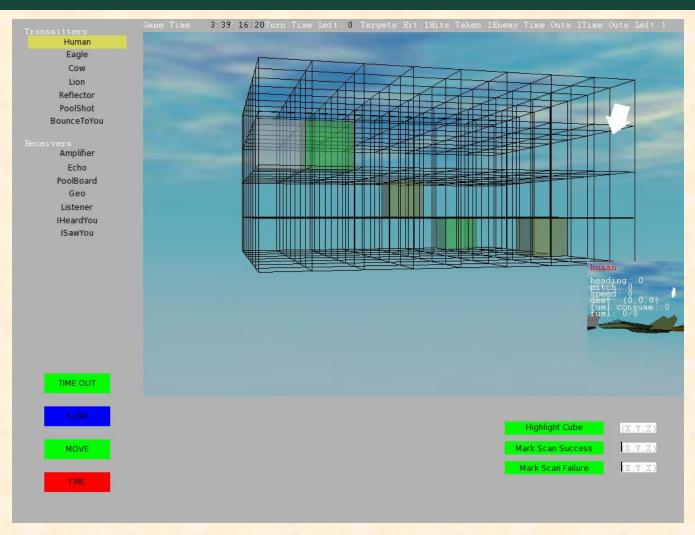




Z-Level Separation



Transmitter Mini-View



What's left to do?

- Scanning
- More Views
- ECEF Coordinates
- Weather
- Encryption
- Multiple skyboxes
- Timeouts
- Scoreboard/Logging