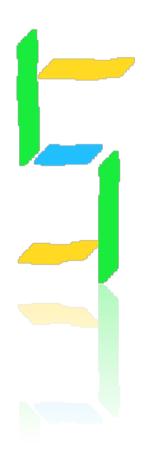
iSnake Intelligent Multiplayer Snake





What is iSnake?

 is the variant of snake game popular among cell phone users





Features of iSnake

Multi player feature

Computer controlled intelligent opponents



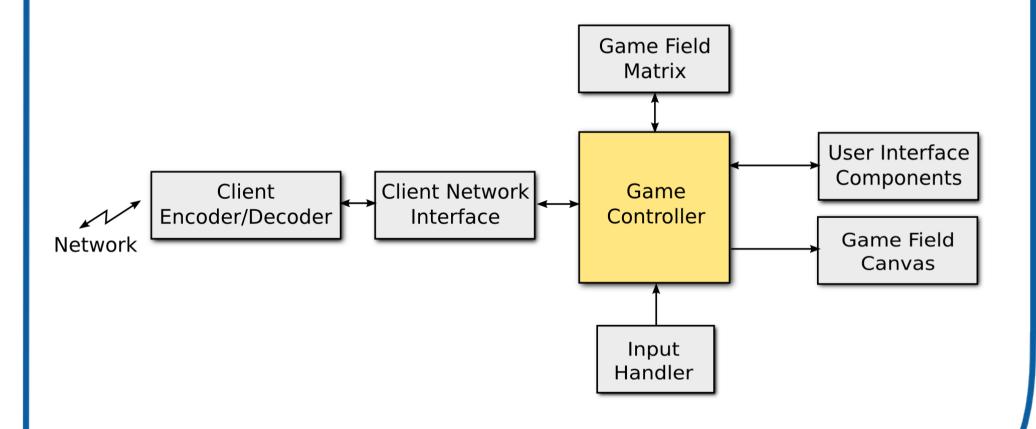
Components of iSnake

- iSnake Client Application
- Autonomous Intelligent Opponent Application
- iSnake Game Server

Game Server Manager @ sourceforge.net



iSnake Client Application





Components of iSnake

iSnake Client Application

Autonomous Intelligent Opponent Application

iSnake Game Server

Game Server Manager @ sourceforge.net



Autonomous Intelligent Opp.

Two path finding algorithms have been developed:

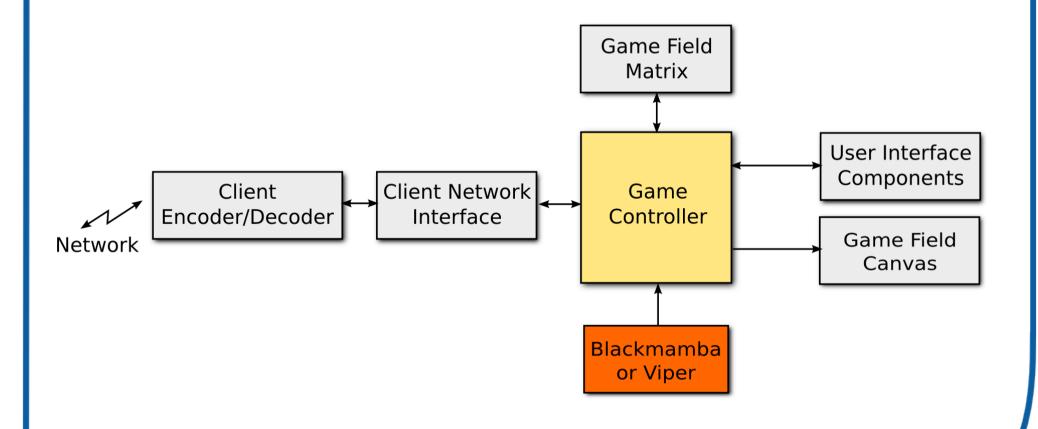
- Blackmamba
- Viper

The Input Handler of iSnake Client Application is replaced by the module implementing

Blackmamba or Viper



Autonomous Intelligent Opp.





Components of iSnake

iSnake Client Application

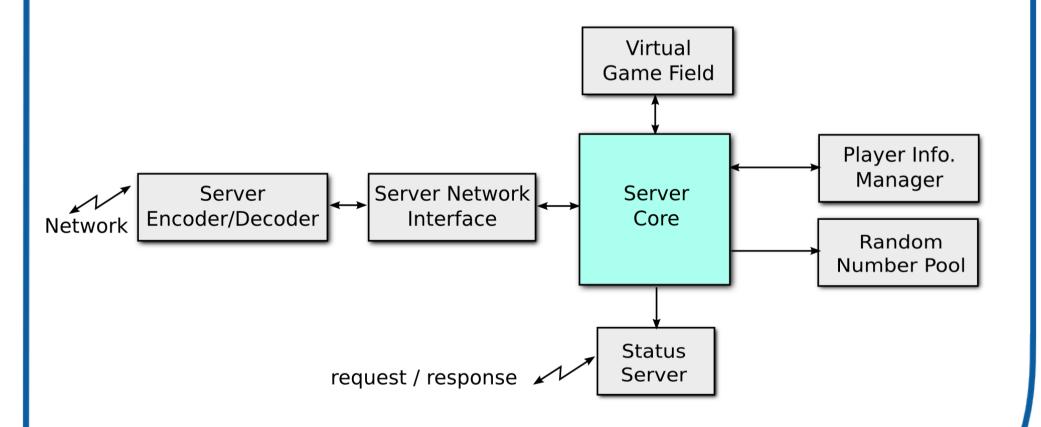
Autonomous Intelligent Opponent Application

iSnake Game Server

Game Server Manager @ sourceforge.net



iSnake Game Server





Components of iSnake

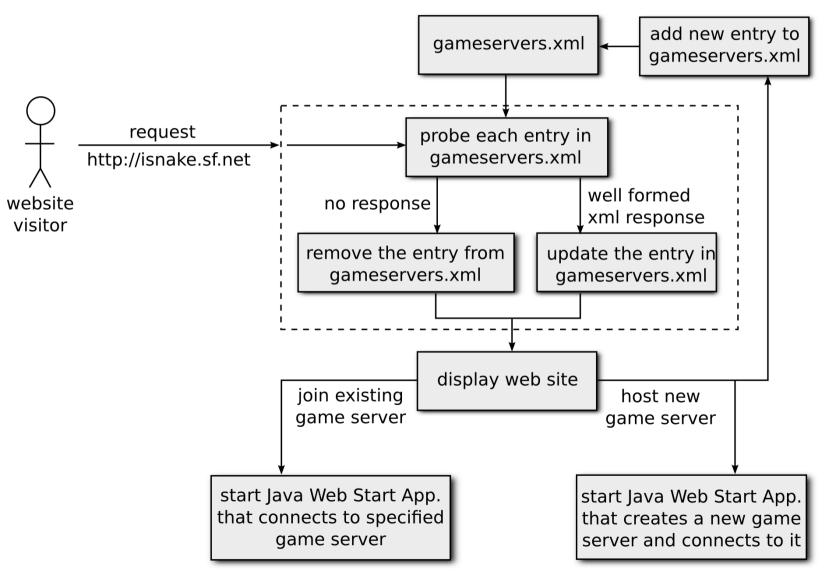
iSnake Client Application

Autonomous Intelligent Opponent Application

Game Server Manager @ sourceforge.net



iSnake GSM@ SF.net





Components of iSnake

✓ iSnake Client Application

Autonomous Intelligent Opponent Application

✓ Game Server Manager @ sourceforge.net



Performance of Game Server

Local Network

Homogeneous LAN

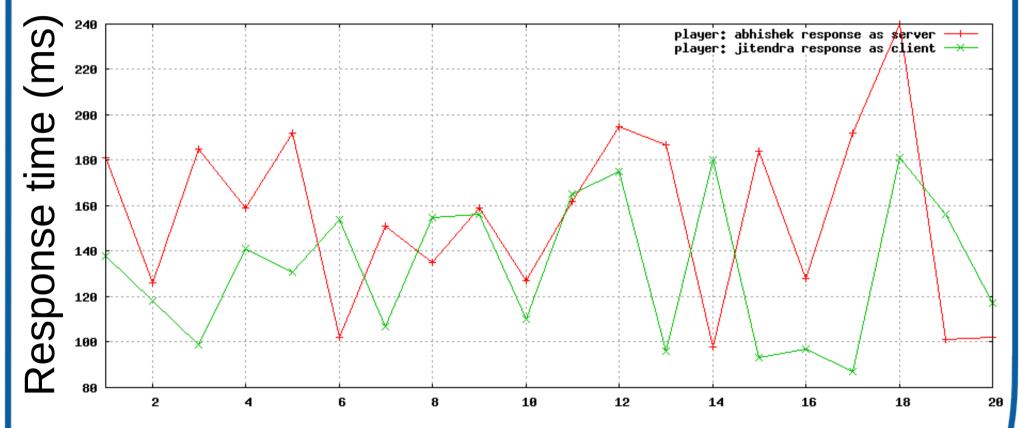
Heterogeneous LAN

Performance evaluation parameter

Response Time



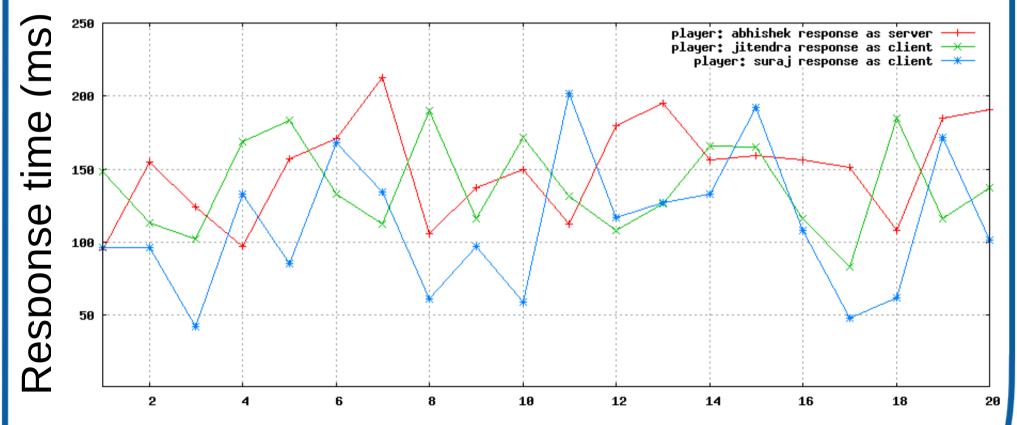
Local Network



Keypress Event id



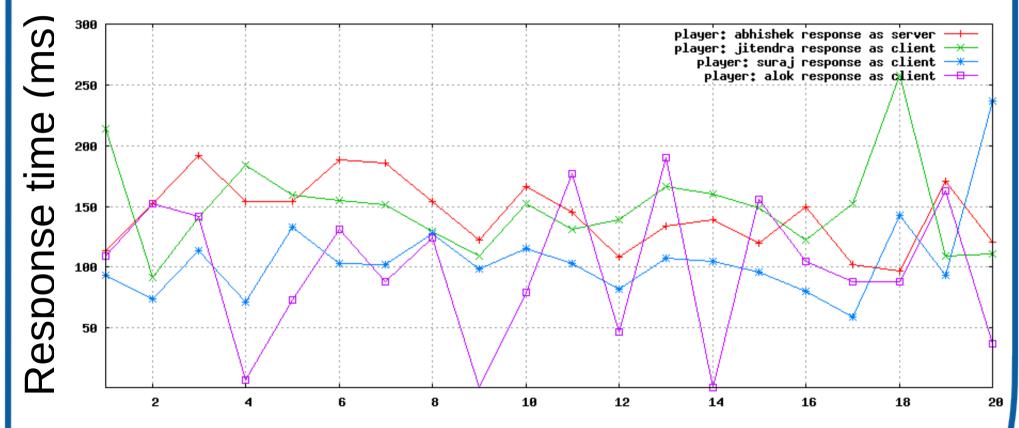
Local Network



Keypress Event id



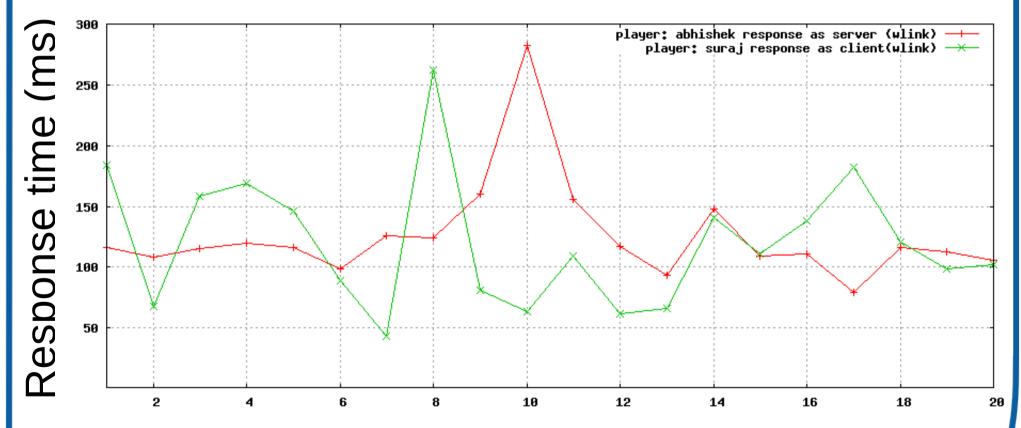
Local Network



Keypress Event id



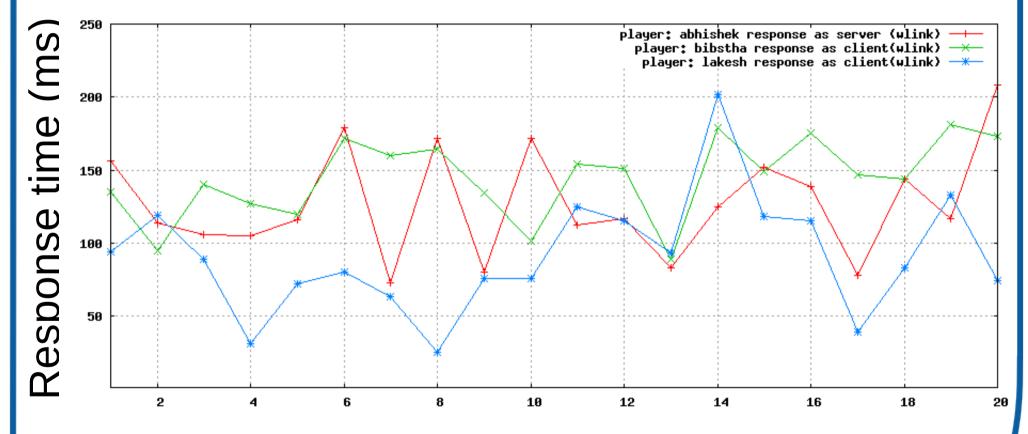
Homogeneous LAN



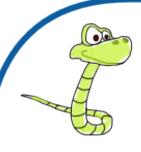
Keypress Event id



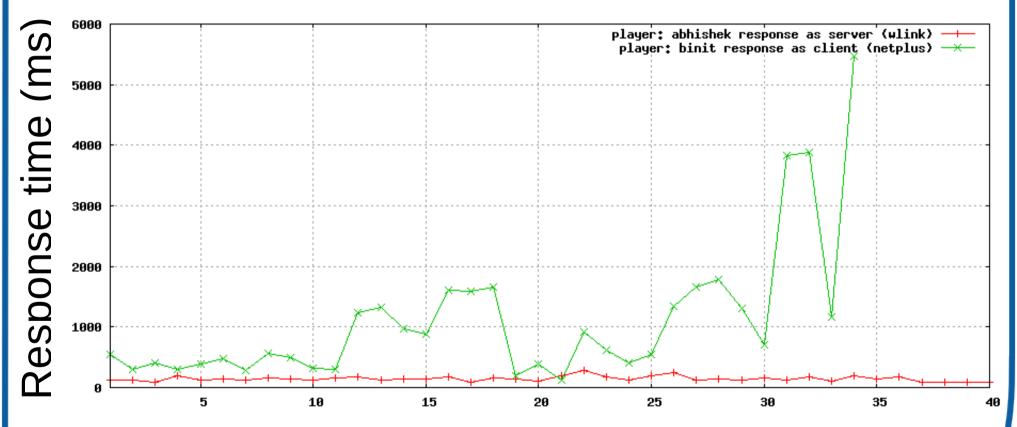
Homogeneous LAN



Keypress Event id



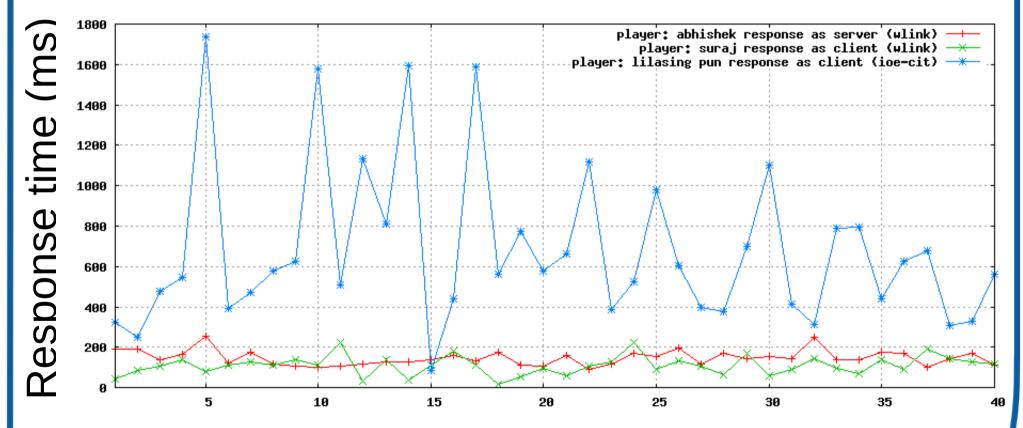
Heterogeneous LAN



Keypress Event id



Heterogeneous LAN



Keypress Event id



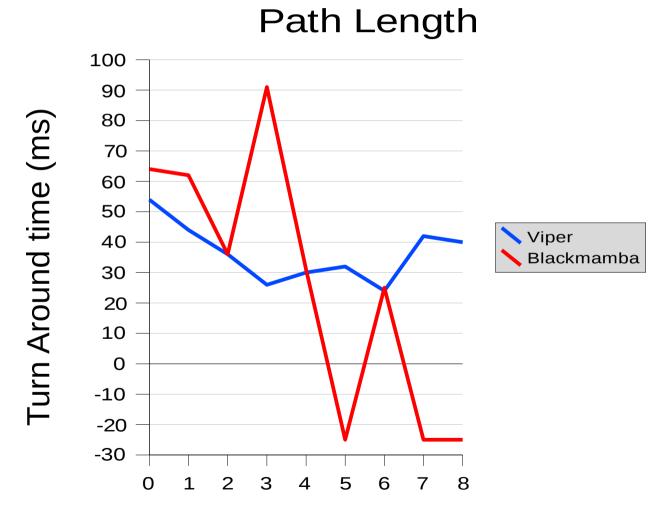
Performance of intel. opp.

Performance evaluation parameters:

- Path Length
- Turn Around Time



Performance of intel. opp.

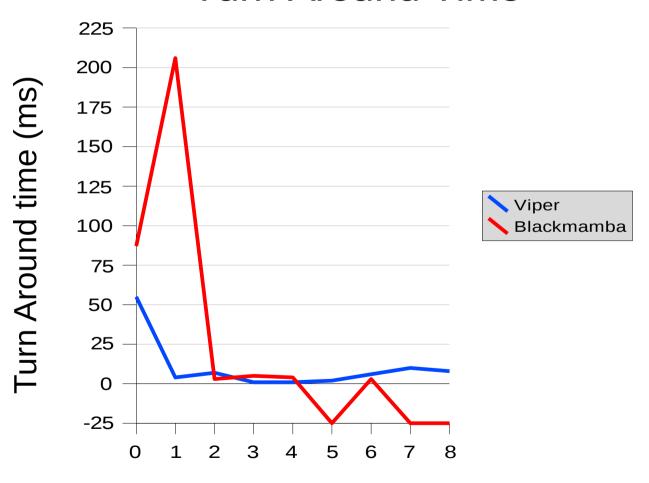


(Source, Target) coordinate pair id



Performance of intel. opp.

Turn Around Time



(Source, Target) coordinate pair id



Documentation

- Source code contains full code documentation conforming to Javadoc standards.
- Both path finding algorithms have been fully documented with illustrations.
- The protocol devised for communication between game server and clients has also been documented.
- All documents available at iSnake's Doc. Repo. http://isnake.sf.net/docs



Project Management

- iSnake code managed using subversion a version control system
- Collaboration on project docs (prototype design, project plan, TODO list, etc) done using WIKI
- JUnit tests were developed to test modules before integration
- All the project management resources were provided by sourceforge.



Why Snake game?

Simplicity!





http://isnake.sourceforge.net

Thank You