



# **CLOUD COMPUTING APPLICATIONS**

Interactive Spark

Roy Campbell & Reza Farivar

# Interactive Spark

- Modified Scala interpreter to allow Spark to be used interactively from the command line
- Required two changes:
  - Modified wrapper code generation so that each line typed has references to objects for its dependencies
  - Distribute generated classes over the network

# Frameworks Built on Spark

- Pregel on Spark (GraphX)
  - Google message passing model for graph computation
- Hive on Spark (SparkSQL)
  - Compatible with Apache Hive
  - ML operators in Scala
- Mllib
  - Scalable Machine Learning Library