SPEAKER:

Jeff Epstein

University of Cambridge

DATE:

Wednesday the 17th of August 2011

TIME:

15:15 - 16:15

LOCATION:

Heriot-Watt University, Earl Mountbatten Building; room 3.06

TITLE:

Haskell for distributed computing

ABSTRACT:

We present Cloud Haskell, a domain-specific language for developing programs for a distributed computing environment. Implemented as a shallow embedding in Haskell, it provides a message-passing communication model, inspired by Erlang, without introducing incompatibility with Haskell's established shared-memory concurrency.

In addition, we discuss a data-dependency-driven API inspired by the CIEL project. A key contribution is a method for serializing function closures for transmission across the network.