ECL ALL STARS - WHY THE LANGUAGE ROCKS BIG DATA

Bob Foreman
Senior Software Engineer
RISK Solutions, LexisNexis

Thurs., Feb. 22
6 – 8 p.m., EE 106
FAU Boca Raton Campus

ABSTRACT
ECL and HPCC Systems has been available in open source for nearly 7 years, and has been driving the LexisNexis Risk Solutions products and services for much longer. This presentation explores the reason behind it: The Enterprise Control Language (ECL). We will look at the power statements behind the language that are used to solve Big Data problems and work with new Big Data products.

Topics Include:
• HPCC Systems – The Hardware Behind It
  o THOR and ROXIE
• The Open Data Model
  o Spray, Define, Locate
• Built-in Analytics
  o COUNT, SUM, AVE, MAX, MIN, Statistics
• Single Dataset Processing
  o PROJECT
  o TABLE
  o DEDUP and ROLLUP
• Multi-Dataset Processing
  o JOIN
  o NORMALIZE, DENORMALIZE
• Building the Query Engine
  o Target ROXIE, Compile, Publish
• Using the ECL Watch
  o Files, ECL, Queries, Topology and Plug-ins

ABOUT THE SPEAKER
Bob Foreman, Senior Software Engineer, has worked with the HPCC Systems technology platform and the ECL programming language for over 5 years, and has been a technical trainer for over 25 years. He is the developer and designer of the HPCC Systems Online Training Courses, and is the Senior Instructor for all classroom and online based training. This includes: Introduction to ECL - Concepts and Queries, Introduction to THOR the Extract, Transform and Load (ETL) Process, Advanced ECL Working with Relational Data, Advanced THOR - Super files, Working with XML, and Free-form Text Parsing, Introduction to ROXIE - Indexes and Queries, Advanced ROXIE - Complex Query Development, and Applied ECL – ECL Code Generation Tools.