Erlang Workshop

Wednesday September 16, 2009 and Thursday September 17, 2009 Candle/Span Room, Atrium Building, 111 Research Drive, Innovation Place, Saskatoon

TRLabs and the IEEE Computer Chapter, with support from MITACS and Industry Canada, are pleased to present a workshop about Erlang, a general-purpose programming language and runtime environment with built-in support for concurrency, distribution, fault tolerance and incremental code loading. This makes Erlang very well suited for large distributed systems (e.g., for delivering robust and scalable Web applications) as well as multi-core embedded systems.

The workshop is divided into two parts:

- Half day overview of Erlang (for those who just want to get a better understanding about Erlang)
- A day and a half programming course (for those that would like to be able to start programming using Erlang)

Presenters:

Dong Liu (U of S), Dmytro Dyachuk (U of S / TRLabs), Flavio Ishii (UoS) and Dr. Ralph Deters (U of S / TRLabs)

Description:

After a brief introduction into the reasons for the growing interests into functional programming languages we will provide an overview of the key features of the Erlang programming language, its difference compared to Java, and discuss the impact they have on the production of highly scalable and fault-tolerant software. This will be followed by a Erlang hands-on session that will focus on the language basics, sequential and basic concurrent programming.

On the second day we will offer two addition hands-on sessions. The first session in the morning will focus on advanced concurrent programming, fault-management and the use of the Erlang OTP. The second session will focus on the use of databases (ETS, DTS, Mnesia), web tools (web machine, TSUNG) and software development issues within Erlang.

We encourage users to bring their laptops for the hands-on sessions and plan to discuss special issues within OTP, Mnesia, TSUNG based on the participant's interest.

Agenda:

Wednesday September 16, 2009

08:30-09:00	Registration
09:00-12:00	Session 1: Erlang Overview
12:00-13:00	Lunch
13:00-16:00	Session 2: Hands-On - Language basics, sequential and basic concurrent programming

Thursday September 17, 2009

09:00-12:00	Session 3: Hands-On - Advanced concurrent programming, fault-management and use of the Erlang OTP
12:00-13:00	Lunch
13:00-16:00	Session 4: Hands-On - Databases, web tools and software development issues

Cost:

- Session 1 Only (includes coffee break and lunch) $30
- All four sessions (includes four coffee breaks and two lunches) $80
- $20 discount for member companies of TRLabs or IEEE members
- Free for undergraduate and graduate students (costs covers by MITACS)

RSVP:

Space is limited, so please register with Ms. Vera Ljubovic at 668-9300 or at ljubovic@trlabs.ca. Please indicate at time of registration if you are with a member company of TRLabs, IEEE member, or student.