Survey

TRINITY COLLEGE DUBLIN
INFORMED CONSENT FORM

I understand that my participation in this study will involve using a computer program, answering to survey questions and discussing my actions in one or more retrospective interviews.

I understand that my interaction with the system/survey will be logged.

I understand that the recorded data will be made anonymous and be accessible to a small team of researcher (i.e. a research team of 4 people) for study purposes.

I understand that even though the recorded data will be made anonymous it will not be available to other people outside of the mentioned research team.

I understand that participation in this study is entirely voluntary and that I can withdraw from the study at any time without giving a reason.

I understand that I am free to ask any questions at any time. I am free to withdraw without providing a reason, or to discuss my concerns with the experimenter.

I agree that my data is used for scientific purposes and I have no objection that my data is published in scientific publications in a way that does not reveal my identity.

I understand that I can make subsequent contact with the leading researcher Roman Atachiants (via email: atachiar@scss.tcd.ie) if I wish to obtain a copy of any papers derived from the research.

In the extremely unlikely event that illicit activity is reported to me during the dialogue I will be obliged to report it to appropriate authorities.

I understand that if I, or anyone in my family, have a history of epilepsy then I am preceding at my own risk.

I understand that the information provided by me will be held anonymously so that it is impossible to trace this information back to me individually. In accordance with the Data Protection Act this information may be retained indefinitely.

I, _____, consent to participate in this study conducted by Roman Atachiants in the School of Computer Science and Statistics, Trinity College, Dublin under the supervision of Dr. Gavin Doherty and I confirm that I am over 18 years old.

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INFORMATION SHEET FOR PARTICIPANTS

Thank you for participating in this study!

The goal of this survey is to identify various features that help developers to identify parallel performance problems. Such features are required to be either observable or calculable, in other words, tool designers should be able to extract them from various data gathering systems (eg: operating system events or hardware counters) or calculate them.

For the purpose of this work, we make assumptions about the type of multicore computer where the performance problems could occur on. We're looking at the kind of machine that is found on the typical desktop: A machine with multiple cores and a shared memory with hardware cache coherency, and which runs an operating system. We assume a shared-memory programming model based on threads, with locks, barriers, semaphores, critical sections and similar mechanisms as the main synchronization mechanism. The machine might have multiple CPU chips, but all operate on a shared memory with cache coherency. The cores of the machine may support hardware multithreading; that is a single core may be able to execute more than one thread either by switching thread every machine cycle (classical multithreading), or by intermixing instructions from more than one thread in the execution pipeline.

During the time you interact with the survey your answers to the questions will be seamlessly recorded. The collected data will be analyzed and may be used to improve the model itself. Also, some results may appear in scientific publications. Those recordings will be made anonymous and it will be impossible to trace the material back to you. The original data (audio and screen recording) will be kept secure and will not be circulated. It will not be used in any oral presentation of the work or in any medium that allows people to freely download individual recordings.

You have the right to abandon the study anytime. You don’t need to provide an excuse for your decision to do so.