



Consent Version: 11 March 2022

University of Arizona

Consent to Participate in Research

Study Title: Evaluating Traveler's usability in analyzing execution data of parallel programs

Principal Investigator: Sayef Azad Sakin

Funding: The Department of Energy

Summary of the research

We are conducting a study to evaluate the usability of Traveler, an integrated visualization system for analyzing execution data of parallel programs. In this study, after providing a brief overview of Traveler, you will be given a series of tasks to perform using the Traveler interface on a predefined dataset. You will be asked to think aloud, which will also be recorded, during the trial. After that, I will ask you some questions about your experience with Traveler. These activities help us collect feedback and assess Traveler.

This is a consent form for participation in a research project. Your participation in this research study is voluntary. It contains important information about this study and what to expect if you decide to participate. Please consider the information carefully. Feel free to ask questions before making your decision whether or not to participate.

Why is this study being done?

We are trying to understand the usability of Traveler in analyzing asynchronous multi-tasks execution traces, with the ultimate goal of developing convenient tools for performance analysts in analyzing task parallel programs. This study seeks to understand how parallel program analysts can use visualization tools to assess their multi-task programs.

What will happen if I take part in this study?

The study consists of two main parts:

1. Independent Exploration: You will be given a link to a version of Traveler running on the web, a walkthrough guide and video, and a set of sample tasks



to explore Traveler on your own. You may take as long or as short on exploring Traveler as you like prior to the evaluation session.

2. Evaluation session (1 hour) over Zoom: We will give a brief overview of Traveler. Then, you will be asked to perform a series of tasks using the Traveler interface on a predefined dataset. After that, I will ask you some questions about your experience with Traveler.

How long will I be in the study?

The independent exploration is optional and voluntary. The evaluation session should take no more than 1 hour to complete.

How many people will take part in this study?

We are inviting people having prior experience working with parallel applications; we plan to collect at most five responses.

Can I stop being in the study?

Your participation is voluntary, and only the video recording of the evaluation session will be recorded. You are welcome to request that we remove your recording as long as it is prior to the public data release. (We will not be able to identify your responses after the release.) You are welcome to terminate the evaluation session at any time you like or request to have your recording removed, there will be no penalty to you. Your decision will not affect your future relationship with the University of Arizona. If you are a student or employee at the University of Arizona, your decision will not affect your grades or employment status.

What risks or benefits can I expect from being in the study?

The expected risks to you as a result of participating in this study would be potential harm resulting from a breach of confidentiality or concern over your own program analysis techniques. The expected benefits would be potential education regarding available performance tools and also helping design future performance tools.

Will I be paid for participating in the study or experience any costs?



There is a \$50 gift card to each person participating in this study. If you prefer, rather than the gift card, we can donate the equivalent amount to SACNAS, an organization that aims to increase diversity in STEM. Beyond the 1 hour time commitment, there will be no costs to you.

Compensation for participation in a research study is considered taxable income for you. If your compensation for this research study or a combination of research studies is \$600 or more in a calendar year (January to December), you will receive an IRS Form 1099 to report on your taxes.

For any compensation or reimbursement you receive, we are required to obtain identifiable information such as your name, address, and [for amounts >\$50] Social Security number for financial compliance purposes.

Will my study-related information be kept confidential?

The only identifiable information will be collected is your email address. Also, this study will collect non-identifiable data (e.g., anonymized transcripts) ***which may be released to the public***. Your email address will be kept confidential and will not be shared in any report or any public data release.

The information that you provide in the study will be handled confidentially. However, there may be circumstances where this information must be released or shared as required by law. The University of Arizona Institutional Review Board; other federal, state, or international regulatory agencies; or the sponsor of the study, if any, may review the research records for monitoring purposes.

Public data

We request that you avoid including identifying information during the study. The research team will review your responses before sharing with anyone else, and may modify or decline to include responses that contain clearly identifiable information.

If you wish to make a correction, or have your responses removed from the study, please contact the study coordinator using the same email address that you submit with this form. Please contact the study coordinator before you get the notification email from us when we make your responses public, as we will destroy any identifiable information before we make any responses public.



Private data

Your responses will be assigned a random code number. A list connecting your email address to this code will be kept in an encrypted and password protected file. Only the research team will have access to the file. When the study is completed and the data have been analyzed, the list will be destroyed.

These responses will never be included in the public database, and only reported in aggregate.

Will my study-related information be used for future research?

The data that you submit may be used without additional consent. At the completion of the study, all private data will be destroyed, and the public database will be archived on osf.io.

Other than the anonymous public dataset, no data will be shared with other researchers at any point.

Who can answer my questions about the study?

For questions, concerns, or complaints about the study you may contact Sayef Azad Sakin at sayefsakin@email.arizona.edu.

For questions about your rights as a participant in this study or to discuss other study-related concerns or complaints with someone who is not part of the research team, you may contact the Human Subjects Protection Program Director at 520-626-8630 or online at <http://rgw.arizona.edu/compliance/human-subjects-protection-program>.

Acknowledging the consent form

I have read this form, and I am aware that I am being asked to participate in a research study. I have had the opportunity to ask questions and have had them answered to my satisfaction. I voluntarily agree to participate in this study.

I am not giving up any legal rights by agreeing to this form.



If you are 18 years of age or older, understand the statements above, and freely consent to participate in the study, sign on the "I Agree" to begin the experiment.

Contact Settings



I wish to be notified by email when my responses are made public



I am a citizen of the European Union

A handwritten signature in black ink, appearing to be 'Umar'.

I Agree

Consent has been recorded; if you wish to revoke consent, please email sayefsakin@email.arizona.edu to have your submissions removed.

HSPP Use Only: Consent Form
Fed non-medical v2019-02

TravelerStudyConsentForm

Final Audit Report

2022-03-17

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Agreement completed.

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