Contributing to DMTCP

*** DRAFT ***

Thank you for investing your time in contributing to the DMTCP project. We want to welcome you to the project and provide some guidance on how to get started contributing, as well as some areas that we are looking for assistance in to continue to improve the project for all.

Table of Contents

Getting Started

Overview

The DMTCP (Distributed MultiThreaded Checkpointing) Project (The Project) is an open source software project that transparently checkpoints a single-host or distributed computation in user-space with no modifications to user code or to the O/S. It works on most Linux applications, including Python, Matlab, R, GUI desktops, MPI, etc. It is robust and widely used (on Sourceforge since 2007).

Among the applications supported by DMTCP are MPI (various implementations), OpenMP, MATLAB, Python, Perl, R, and many programming languages and shell scripting languages. With the use of TightVNC, it can also checkpoint and restart X-Window applications. The OpenGL library for 3D graphics is supported through a special plugin. It also has strong support for HPC (High Performance Computing) environments, including MPI, SLURM, InfiniBand, and other components. See QUICK-START.md for further details.

DMTCP supports the commonly used OFED API for InfiniBand, as well as its integration with various implementations of MPI, and resource managers (e.g., SLURM). See contrib/infiniband/README for more

details.

Code of Conduct

We believe that teams are most sucessful when they operate and interact in a safe environment where individuals are encouraged to be themselves. We operate our community a harassment-free experience for everyone, regardless of age, body size, visible or invisible disability, ethnicity, sex characteristics, gender identity and expression, level of experience, education, socio-economic status, nationality, personal appearance, race, caste, color, religion, or sexual identity and orientation. To support this we have adopted the Contributor Covenant https://www.contributor-covenant.org code of conduct which you can find our specifics here.

License

The Software developed by The Project is released under the Community License and is developed openly and hosted in public GitHub repositories under the DMTCP GitHub organization. The license is focused on balancing the intent of what it means to be an open source project while limiting the commerical explotation of the project via Cloud Service Providers whom often offer a SaaS version without contributing back to the project. It is not meant to limit the personal use of or embedding of DMTCP into a product.

How to Install

How Can I Contribute

Reporting Bugs

Suggesting an Enhancement

Your First Code Contribution

Pull Requests

Styleguides

Git Commit Messages

Documentation Styleguide

Project Contributors

Here is a list of the current Contributors to the DMTCP repository:

https://github.com/dmtcp/dmtcp/graphs/contributors

Contributing to the Project

We ask that contributors sign a Contributors License Agreement (CLA) or a Developer's Certificate of Origin (DCO). For most contributors, the DCO is the preferred option and for institutions a CLA is recommended. Here are our contributor guidelines

Distinguished Contributors

The Distinguished Contributors are a group of people that have contributed to the sucess of the project over the years by making substantial and sustained contributions in any area of activity (software development, governance, community engagement, events, etc.). As a way of thanking these members, we created a list Distinguished Contributors document as our way of thanking them.