

EASE Scripting Optimization

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What we will cover

1. Introduction
2. Improving the performance of EASE scripts
3. Command line improvements
4. Ciena feedback
5. Documentation

Introduction

Summer 2020 internship with Polytechnique Montreal and Ciena

Internship goals

- Improve performance of TraceCompass EASE scripts
- Improve usability of TraceCompass and TraceCompass EASE

Improving the performance of EASE scripts

EASE custom analysis was 5 min, reduced to a few seconds by using Jython.

Option of using both Python EASE engines to remove Jython limitations.

Documentation on EASE engine performances for Ciena



Command line improvements

Start EASE script on a trace from the command line:

- Add the option of providing script arguments
- Add the option of providing script engine
- Add the option of running an experiment from the command line (ongoing)

Ciena Feedback on TraceCompass

Meetings for feedback on the user experience of Trace Compass within Ciena

Feedback from Vahid:

- Filters improvements, documentation
- Time synchronization API (ongoing)

Documentation

Create pages of documentation for Ciena on many topics regarding EASE developpement, including:

- Engine performance (Jython, py4j, Rhino, Nashorn)
- Access to TraceCompass EASE API
- Custom analysis tutorial

There have been talks for these pages to go public for all TraceCompass EASE users