MS Thesis Proposal

Process Cooperativity as a Feedback Metric in Concurrent Message-Passing Languages

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Reader: The Second Dude

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Abstract

This should be a short description of the work and the results: a paragraph or two summarizing your project proposal. Note that an abstract is meant to be read independently from the rest of the project report so you cannot cite your paper or other papers in it. It would be useful to examine other abstracts in the many papers you have read to understand what an abstract really is.

1 Introduction

This part of the proposal should be a couple of paragraphs that describe the reason for your proposal and your project/thesis area at high level.

2 Background

This section should be sufficient for the reader to understand the project area and the relevance of your efforts in the world of computer science. The description here should be provide the motivation to the reader that you are exploring a problem area that is relevant to the CS community.

3 Related Work

Describe what work others have already done in this area. You do need several citations, and this is how you cite a book by Silberschatz [**?**] or a paper by Dumont [**?**].

4 Hypothesis

Summarize what you think the problem is, and what your hypothesis is. Here is a small example based on a successful project by Priyanka Sinha: "Using one technique for schema matching does not seem adequate. The hypothesis underlying this sproject is that a holistic approach to schema matching based on the three techniques described earlier would do an effective approach to schema matching."

Additional description to circumscribe the work so that the reader knows what you plan to do to establish your hypothesis.

5 Solution Design and Implementation

Describe how you plan to design and implement a solution.

You must also describe how you would use your solution to establish the validity of your hypothesis. Explain the measurements you plan to conduct and how these would establish the validity (or invalidity) of your hypothesis.

6 Roadmap

Based on the layout of the 10-week Summer session of 2138, where the tenth week is the defense. It will primarily be a top-heavy load that will shift as needed with the inevitability of roadblocks:

April
$4/25$ - Submission of Proposal with timeline.

May
$5/25$ - $5/31$ - Finish base ErLam Compiler and Plugin Scheduler Interface

June
$6/01$ - $6/07$ - Port CML scheduler to Erlang $*$
$6/08$ - $6/14$ - Cooperative Algorithm Development/Implementation
$6/15$ - $6/21$
$6/22$ - $6/28$ - Implement Test Cases for Scheduler Comparisons

July
$6/29$ - $7/05$
$7/06$ - $7/12$ - Run tests and compile results
$7/13$ - $7/19$
$7/20$ - $7/26$ - Draft of Thesis report submission

August
$7/27$ - $8/02$ - Thesis Defense
$8/03$ - $8/09$ - (Backup Defense dates)

$*$ Strech goal to implement a batching Occam-Pi scheduler too.

Every week will contain at least one meeting with my chair and every two weeks must result in an update to my website laying out my progress.

References