Big Data Platforms

Stragglers and serverless computing

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# Abstract:

# Motivation and background:

**רקע כללי על סטרגלר, קשיים שעלו בדרך (בדגש על משימות סטרגלר) דוגמאות, והשוני בין ההתמודדות של מנועי ביג דאטא עם משימות סטרגלר.**

# Stragglers in serverless computing:

להסביר מה זה חישוב ללא שרת, הבעיות של סטרגלר בשילוב עם סרברלס, להציג נקודות דמיון ושוני בנוגע להבדל בין סטרגלר בסרברלס למנועי ביג דאטא.

# Stragglers in jobs submitted by Lithops

* Explore and explain how Lithops submit it’s job and knows which tasks are finished and which tasks yet running.
* Explain how Lithops know when entire job is finished and how it waits for the running tasks to complete.
* Provide two different approaches to extend Lithops with mechanism to prevent jobs to be affected by straggler tasks.
* Address different aspects of complexity of implementation, costs, performs.
* Explain positive and negative effects of the approaches you propose.

# Prototype

* Provide pseudo-code for the approaches you propose. Explain how it works.

# Next steps

* Suggest next steps to the solutions you proposed

# Conclusion

* Short conclusion of the work you did

# Bibliography