universität innsbruck

VU Scheduling Approaches in Distributed Systems.

Task 4 – "Application Dynamism".

Student/Group:

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General Feedback:

Very nice. I like a lot of things about your solution:

- First of all, you have correctly identified the problem (individual samples are not representative of the system) and provided a valid solution (modeling the system properties based on the aggregation of the characteristics of a sample batch rather than using the characteristic of a single sample).
- I like that you are caching the results, not only because of the benefits for the run time of the optimization, but also since, for a real situation, obtaining data samples of the system could come with actual cost.
- I also like your implementation of the *PropertyProviderDynamicAverage* as a decorator. Not having to adjust existing code while getting a new functionality is always awesome.
- And yes, just like any predictive approach, the implemented approach will deteriorate in quality in case that it is applied to a problem to which it does not generalize (or in case that the current problem changes into this direction).
- Super minor wording thing: In your solution description, you are writing that the values provided by the dynamic provider are random. This is technically correct, since it provides random values following a normal distribution, but normally random is associated with the uniform distribution. I would recommend to explicitly say that the behavior follows a normal distribution rather than saying that it is random.

Code Feedback:

- I know that this stuff here is pretty simple, but I will mention that you could have commented at least the class head of the *PropertyProviderDynamicAverage* class (just so I have something to write into the code feedback section :))

Summary:

Very very solid solution. Really nothing to add from my side. Well done :)

Best regards,

Fedor