11791 Design and Engineering of Intelligent Information Systems Fall 2013 Assignment 3

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Execution Architecture with CPE

Here comes the execution result of my CPE on the test input data.

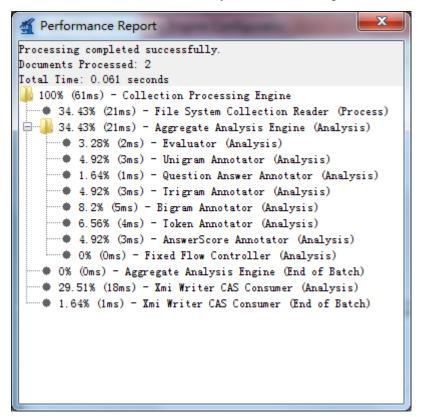


Figure 1

Deployment Architecture with UIMA-AS

Creating an UIMA-AS client

I create a UIMA-AS client for standfordcorenlp and make use of the NamedEntityMention in the AnswerScoreAnnotator. I just use the NamedEntity as an extra part of the Answers except the

Token part. But I get no better performance. Actually, we should get a speedup by using CPE compared with the pipeline in homework2. But since the input set is small, the difference is not obvious. The result is listed as follows.

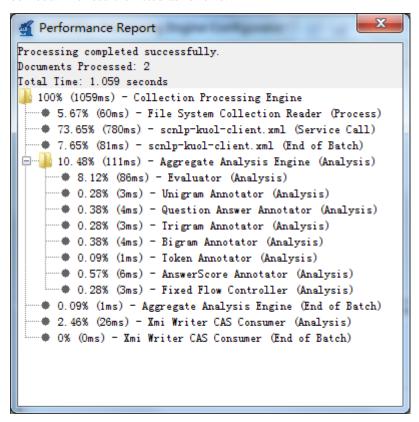


Figure 2

Deploying your own UIMA-AS service

I successfully deployed my UIMA-AS service and called the client in the CPE GUI. Instead of using cmd to deploy my pipeline, I wrote a java class to deploy my pipeline. It is located in edu.cmu.deiis.as.Application.java. Here comes the result.

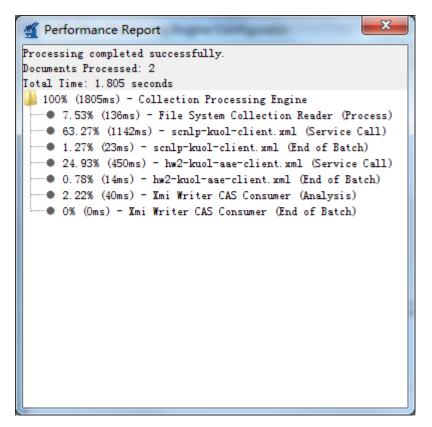


Figure 3

Bonus

I ran the Stanford CoreNLP annotator locally, we can see that it is much slower compared with the remote one, 3680ms vs 780 ms. The result is listed as follows. The xml file descriptor is located in src/main/resources/descriptors/StanfordCoreNLPAnnotator.xml.

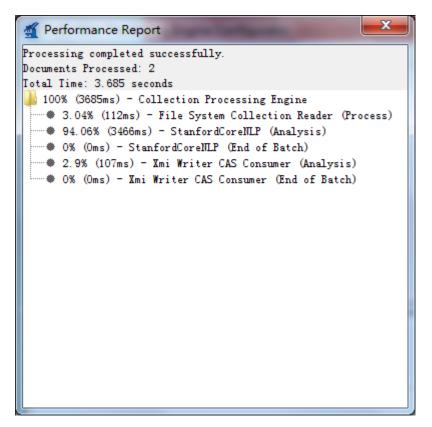


Figure 4