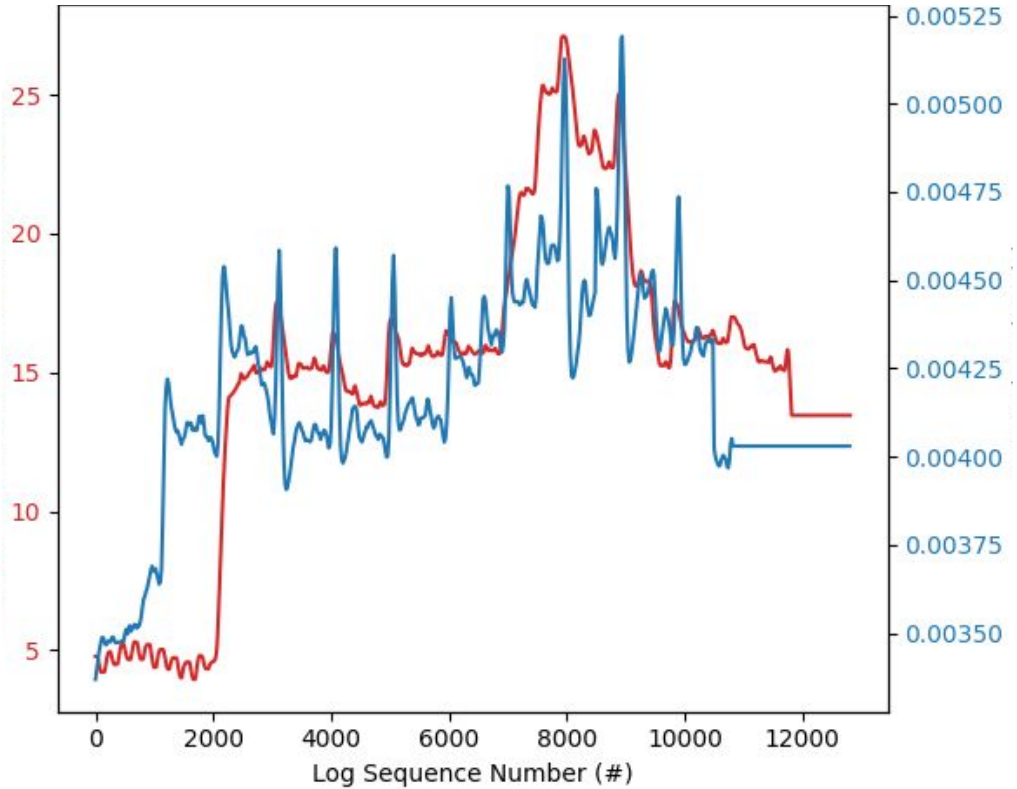
Experiments, April 26th 2021

Finding: The batch processing time is proportional to the number of active process instances.

Rule: read(support a, name c)@x → check_faq(support a, name c)@z, x <= z <= x+100

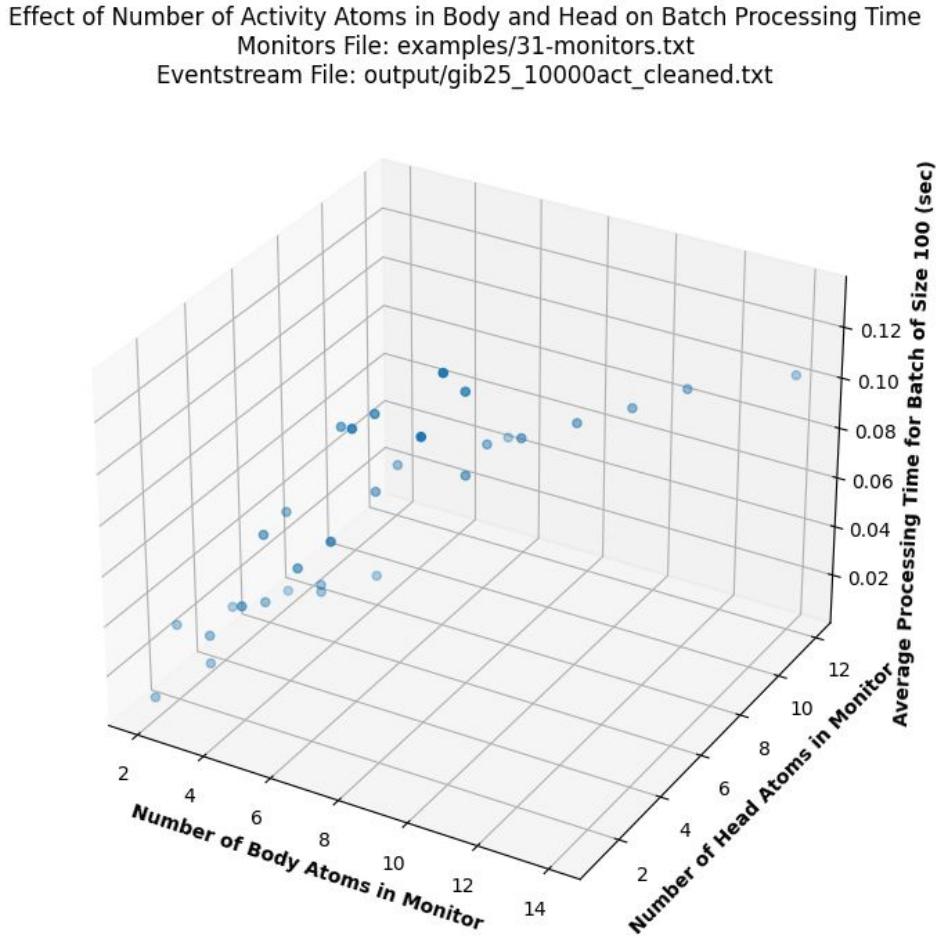
Number of Active Process Instances



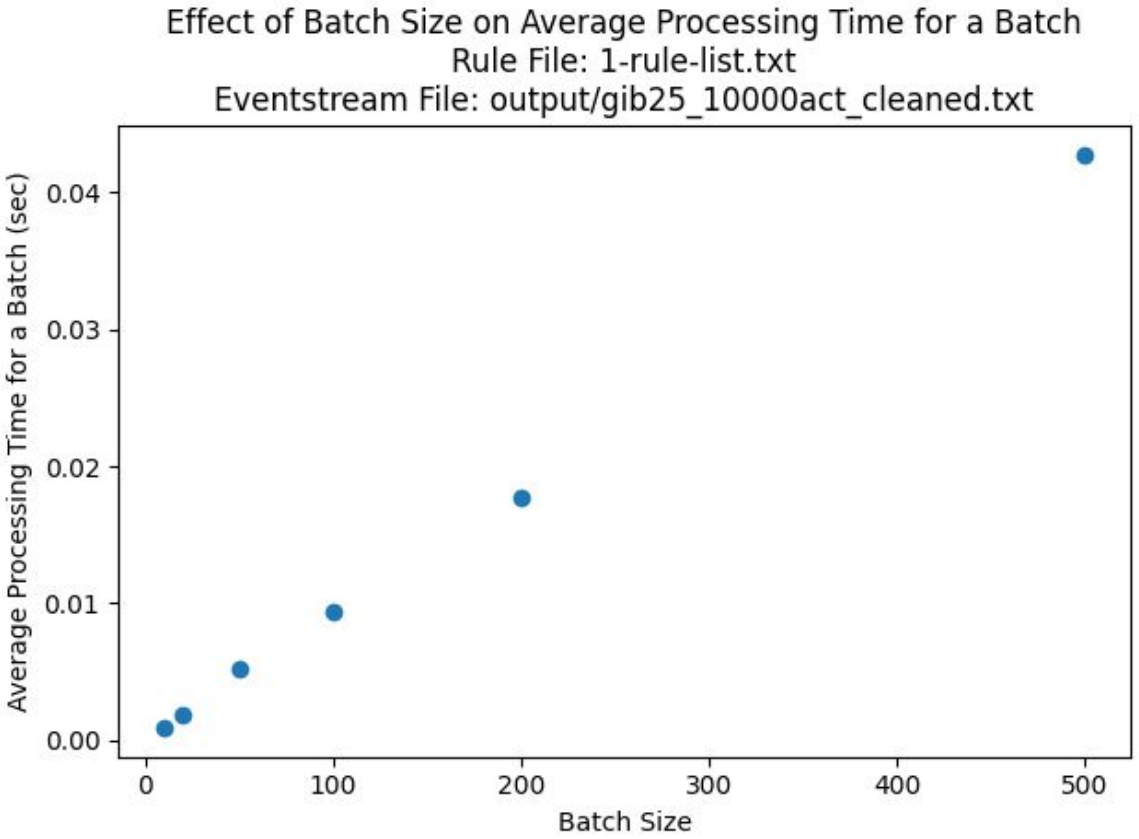
Batch Processing Time

Finding: The batch processing time is more sensitive to the number of body atoms than the number of head atoms.

31 rules tested



Finding: For single-event processing algorithm, batch processing time increases proportionally to the batch size.



Rule:
read(support a, name c)@x,
check_faq(support a, name c)@y,
x <= y <= x+10
→
response(support a, name c)@z
y <= z <= y+100

Finding: The batch processing time increases with the number of rules.