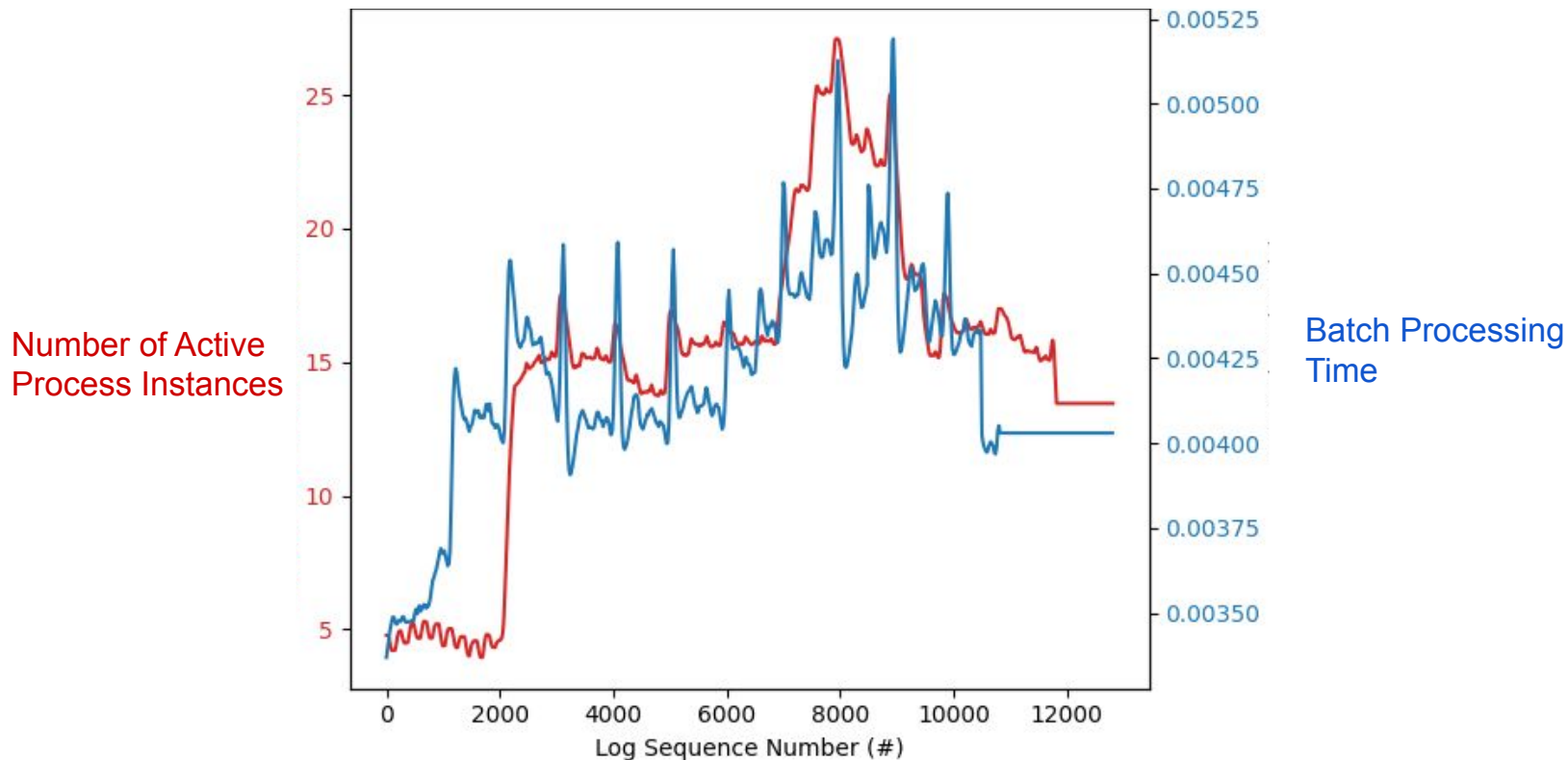


Experiments, April 26th 2021

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

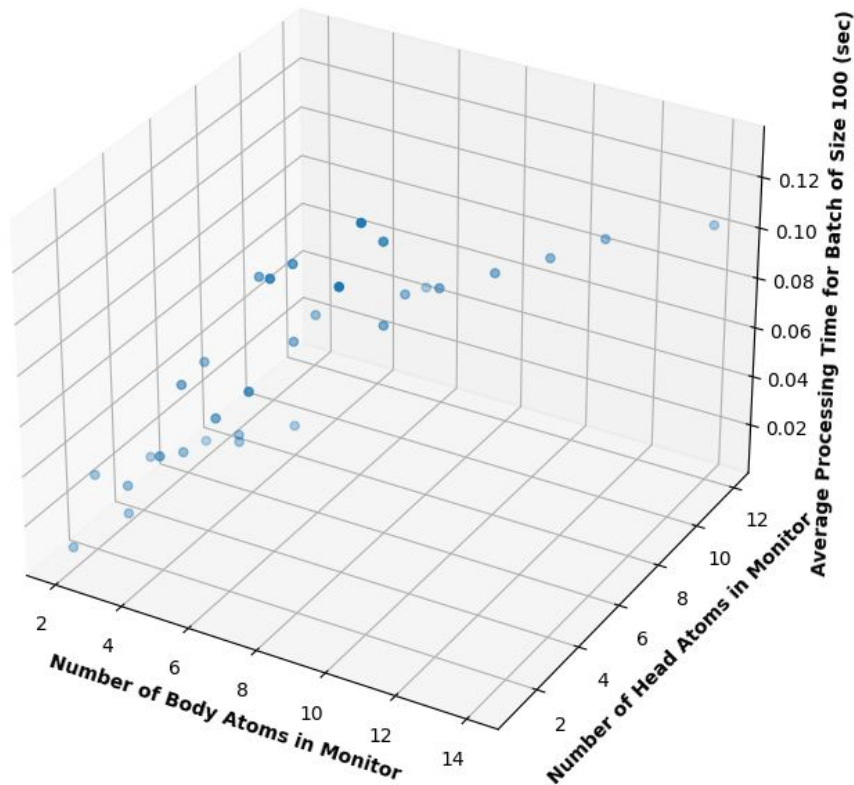
Rule:  $\text{read}(\text{support } a, \text{ name } c)@x \rightarrow \text{check\_faq}(\text{support } a, \text{ name } c)@z, x \leq z \leq x+100$



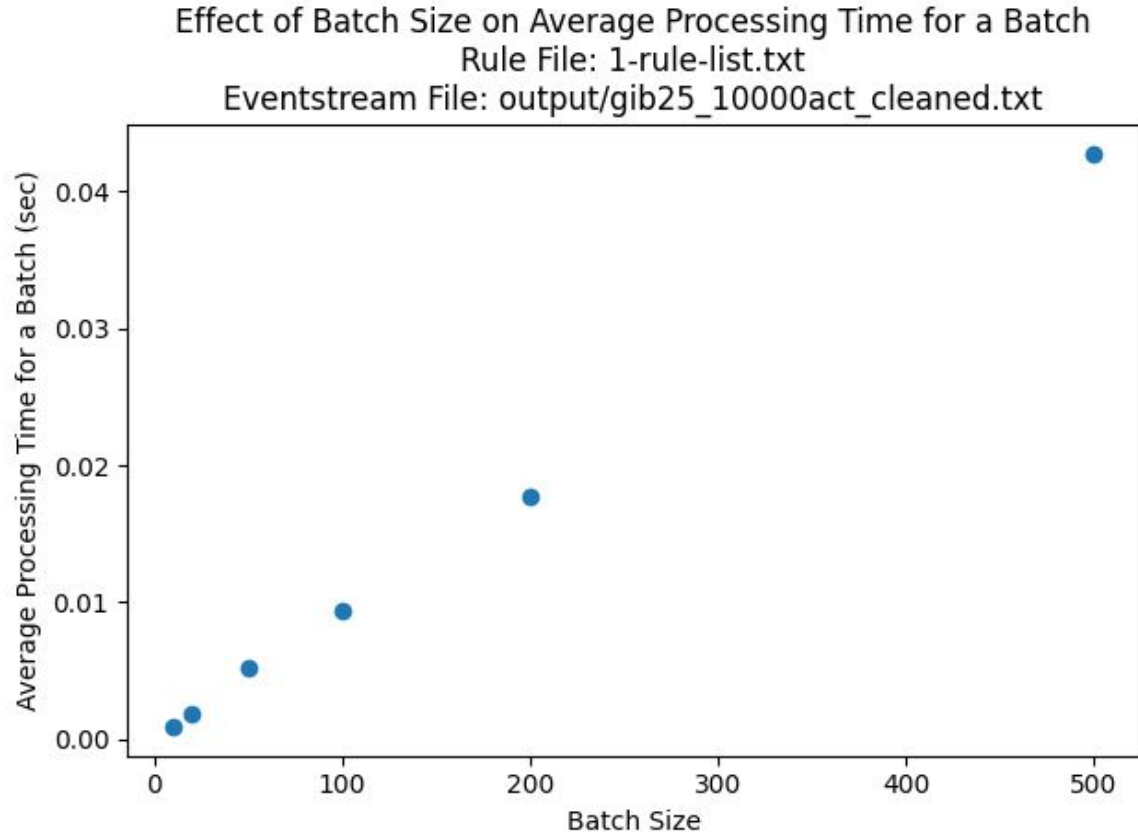
Finding: The batch processing time is more sensitive to the number of body atoms than the number of head atoms.

Effect of Number of Activity Atoms in Body and Head on Batch Processing Time  
Monitors File: examples/31-monitors.txt  
Eventstream File: output/gib25\_10000act\_cleaned.txt

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.

