

Seung Woo Lee

Project 4 Experiment Report

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For all our experiments, we can say that the protocols with the lowest clock count needs to be considered first as the strongest benchmark for performance, then other factors can be considered.

For experiment1, we can see that the MOSI and MOESIF protocols have 255 cycles while other protocols have 351 cycles. This shows that MOSI and MOESIF are the best protocols. Different interpretations can be taken for MOSI and MOESIF. We can say that MOSI can be better due to the ease of implementation with the protocol as it has two less states than MOESIF, or we can say that for the most part, MOESIF has the best performance overall, so it can be considered the better protocol.

For experiment2, we can see that the MOESIF protocol has 828 cycles, while every other protocols have cycles that are over 1000. Therefore, we can say that MOESIF is the best protocol.

Similar to experiment3, we can see that the MOESIF protocol has 1663 cycles while every other protocols have cycles that are over 2000. Therefore we can say that the MOESIF protocol is the best.

For experiment4, we can see that the MOESIF protocol has 3331 cycles, while every other protocols have cycles that are over 4000. Therefore, we can say that MOESIF is the best protocol.

For experiment5, we can see that the MOESIF protocol has 600 cycles, while every other protocols have cycles that are over 1000. Therefore, we can say that MOESIF is the best protocol.

In conclusion, we can say that the MOESIF protocol is the best protocol as it performs best in most or all cases.