The best fit curve for internal merge sort is nlogn. The error calculation justifies this because the MSE for nlogn (185.23271) is much smaller than n^2 (4111.6884).

The best fit curve for external merge sort is nlogn. The error calculation justifies this because the MSE for nlogn (183,814.9558) is much smaller than n^2 (2,413,445.37).

In conclusion, internal merge sort is faster than external merge sort based on the data accumulated.