

In order to test our processes vs threads, we had to run a series of different time tests and compare values between the two implementations. We generated a significantly large text file with over 10,000 characters and tested splitting it with: 5, 10, 15, 20, 25, 30, 35, 40, 45, 50 splits. Each time we recorded the time so that we could compare the two

Time Test	Processes	Threads
5	Real: .024s User: .061s Sys: .013s	Real: .031s User: .082s Sys: .008s
10	Real: .018s User: .041s Sys: .021s	Real: .015s User: .034s Sys: .008s
15	Real: .020s User: .043s Sys: .026s	Real: .033 User: .034 Sys: .013
20	Real: .027s User: .045s Sys: .041s	Real: .016s User: .034s Sys: .009s
25	Real: .028s User: .037s Sys: .050s	Real: .030s User: .045s Sys: .013s
30	Real: .033s User: .008s Sys: .033s	Real: .021s User: .030s Sys: .007s
35	Real: .034s User: .040s Sys: .059s	Real: .026s User: .040s Sys: .008s
40	Real: .034s User: .031s Sys: .071s	Real: .027s User: .030s Sys: .010s
45	Real: .039s User: .035s Sys: .086s	Real: .031s User: .035s Sys: .011s
50	Real: .038s User: .021s Sys: .072s	Real: .029s User: .038s Sys: .012s

We found that as the number of parts increased, threads seemed to be the faster option compared to processes.