

Test of performance:

# of Operations (in Millions)	Tree Set (in seconds)	Skip List (in seconds) and Threshold = 2,4,8,16,... Millions	Skip List (in seconds) and Threshold = 5,10,20,40,80,... Millions	Skip List (in seconds) and Threshold = 10,20,40,80,160 Millions	Skip List (in seconds) and Threshold = 25,50,100,200 Millions
1 M	0	1	1	1	1
2 M	1	3	2	2	2
5 M	4	9	8	7	8
10M	10	25	18	22	19
25M	32	76	73	69	68
50M	85	156	165	165	158

Inference:

Seeing the performance chart we can say that the TreeSet is twice as fast as Skip List. Between the skip list the performance of skip list with higher threshold is better than the skip list with lower threshold.