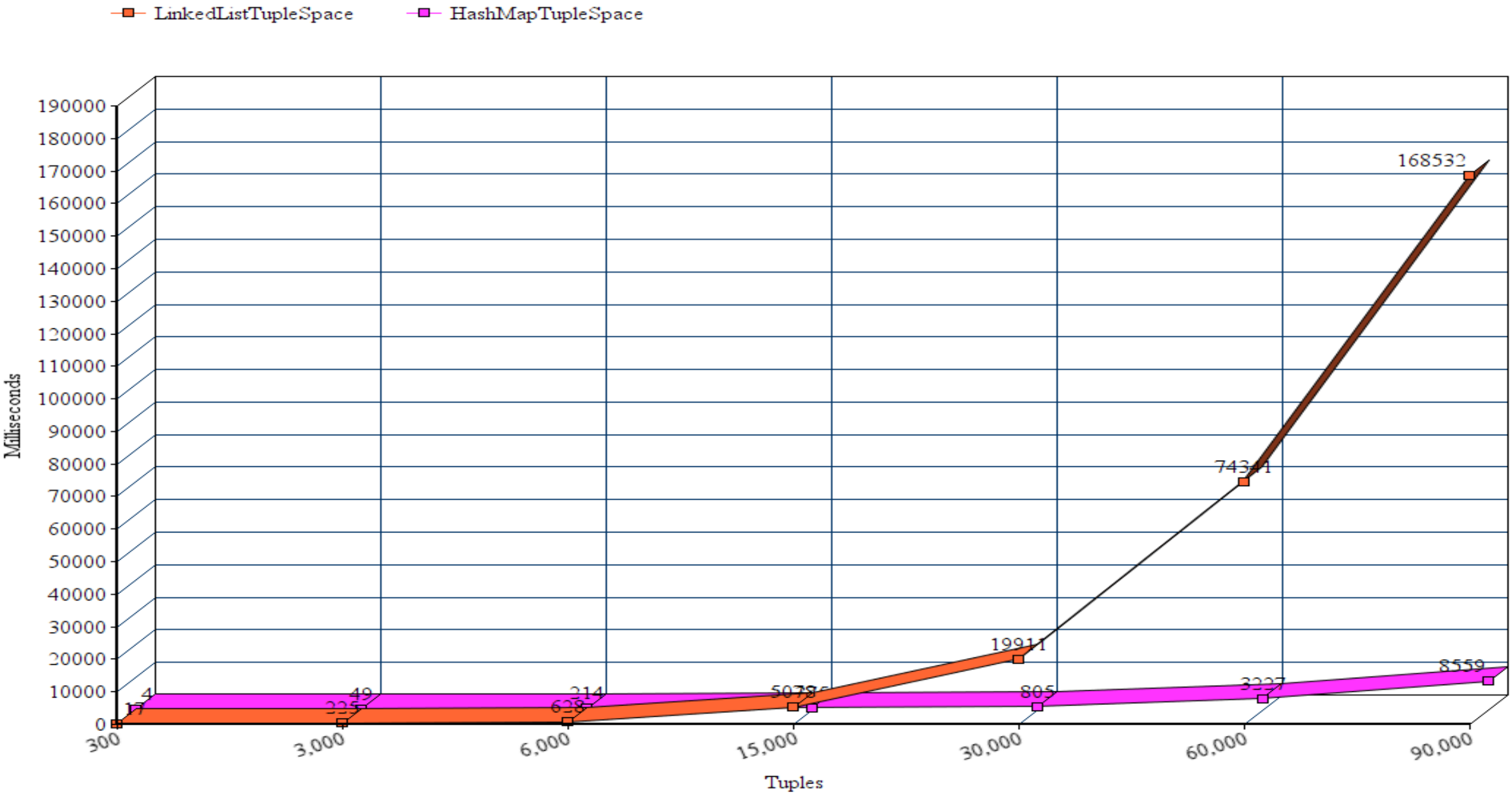
LinkedListTupleSpace
HashMapTupleSpace
Milliseconds
190000
180000
170000
160000
150000
140000
130000
120000
110000
100000
90000
80000
70000
60000
50000
40000
30000
20000
10000
0
300
3,000
6,000
15,000
30,000
60,000
90,000
Tuples
168532
74341
19911
8559
3227
805
214
49
4

Tuples	Milliseconds (LL)	Milliseconds (HM)
300	17	4
3000	225	49
6000	628	214
15000	5078	375
30000	19911	805
60000	74341	3227
90000	168532	8559

Description of Testing

Here are a series of testing done with both implementations of Tuple Space. In each I added the same amount of Tuples with pattern of size 1, 5, and 6. When calling spaceTesting it would expect some number and the implementation of Tuple Space that wanted to be tested. If N was passed into parameter it would add 3N Tuples and search N/10 and remove N/10.

Implementations

LinkedList

This is essentially a big pile of Tuples. Will obviously be the slowest and tests confirm this suspicion.

HashMap

Key is the size of tuples, and the value is a list pertaining to tuples of that size. When compared to the LL version significantly reduces amount of searching needed.