















## 6 Conclusion

In this paper we gave an upper bound on the height of a skip graph, proving that with high probability, the height is no larger than twice that of a skip list of the same size.

We observe empirically that this upper bound seems not to be tight. Simulation results seem compatible with the conjecture that  $H'_n/\log_2(n)$  converges in probability to a constant, though such a constant is likely to be smaller than our upper bound implies. More work, typically a careful analysis of the dependencies between the various skip lists that make up a skip graph, is still necessary for such a potential result.

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