# pathsig vs keras_sig Speedup (float32)



Forward Speedup

| Sequence Length \ Batch Size | 1 | 32 | 64 | 128 | 256 |
|---|---|---|---|---|---|
| 25 | 13.27 | 10.97 | 10.26 | 9.29 | 8.62 |
| 50 | 13.27 | 9.77 | 10.72 | 8.78 | 8.20 |
| 100 | 11.99 | 8.94 | 8.46 | 7.80 | 6.98 |
| 500 | 4.34 | 3.97 | 3.83 | 4.01 | 3.84 |
| 1000 | 2.60 | 2.95 | 2.97 | 3.32 | 3.33 |

Training Speedup (Forward + Backward)

| Sequence Length \ Batch Size | 1 | 32 | 64 | 128 | 256 |
|---|---|---|---|---|---|
| 25 | 13.48 | 6.94 | 8.46 | 7.72 | 6.57 |
| 50 | 8.93 | 6.35 | 5.54 | 5.36 | 4.29 |
| 100 | 4.95 | 3.46 | 2.96 | 2.48 | 2.51 |
| 500 | 1.03 | 0.84 | 0.82 | 0.77 | 0.69 |
| 1000 | 0.54 | 0.43 | 0.47 | 0.52 | 0.52 |