

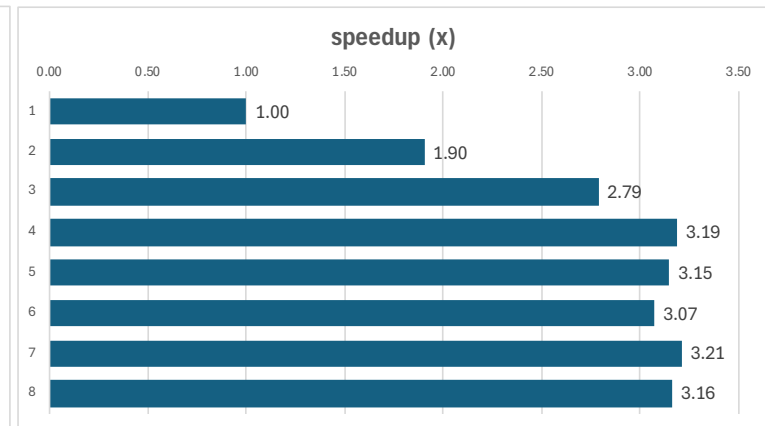
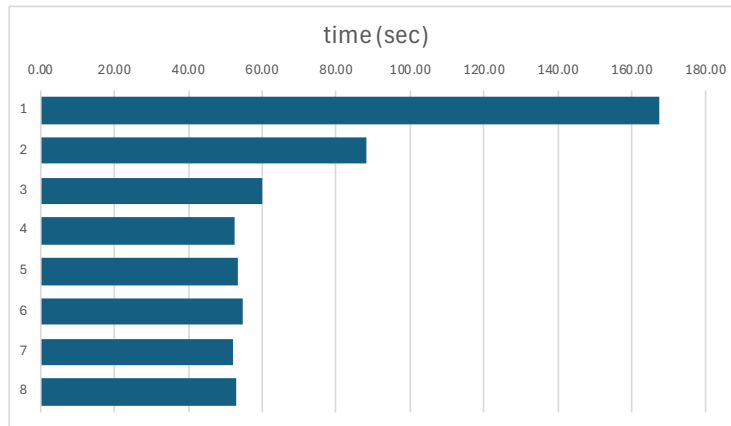
benchmark for fastq (v1.24) on paired Aviti reads  
run fastp in increasing number of threads and time the process  
[SP@NC:2025-01-24](#)

the input files are:

4920\_01\_A1\_20487881F4509f06A1\_S5\_L001\_R1\_001.fastq.gz (27'454'743 150b reads)  
4920\_01\_A1\_20487881F4509f06A1\_S5\_L001\_R2\_001.fastq.gz (27'454'743 150b reads)

results (10M reads)

threads	time (sec)	speedup (x)
1	167.43	1.00
2	87.97	1.90
3	60.07	2.79
4	52.53	3.19
5	53.19	3.15
6	54.52	3.07
7	52.15	3.21
8	52.95	3.16



conclusion

nthr=4 is optimal (3.19x faster) under the experimental setup and computing resources