The Computer Language
Benchmarks Game

Go versus Python 3 fastest programs

vs C++ vs Java **vs Python** vs Rust

Always look at the source code.

These are only the fastest programs. Look at the other programs. They may seem more-like a *fair* comparison to you.

mandelbrot

source	secs	mem	gz	busy	cpu load
Go	**5.48**	31,196	894	21.83	100% 100% 99% 99%
Python 3	259.50	48,192	688	1,036.70	100% 100% 100% 100%

spectral-norm

source	secs	mem	gz	busy	cpu load
Go	**3.96**	2,692	548	15.74	99% 99% 99% 99%
Python 3	169.87	49,188	417	675.02	100% 99% 99% 99%

n-body

source	secs	mem	gz	busy	cpu load
Go	**21.26**	1,884	1310	21.41	38% 62% 0% 0%
Python 3	865.18	8,176	1196	874.96	2% 20% 79% 0%

fannkuch-redux

source	secs	mem	gz	busy	cpu load
Go	**14.75**	3,484	969	58.94	100% 100% 100% 100%
Python 3	534.40	47,236	950	2,104.05	99% 97% 99% 99%

fasta

source	secs	mem	gz	busy	cpu load
Go	**2.07**	3,744	1358	5.52	79% 80% 27% 81%
Python 3	63.55	844,180	1947	129.71	40% 71% 33% 61%

k-nucleotide

source	secs	mem	gz	busy	cpu load
Go	**12.58**	150,308	1722	47.83	95% 95% 95% 95%
Python 3	72.24	199,856	1967	275.38	94% 94% 96% 96%

reverse-complement

source	secs	mem	gz	busy	cpu load
Go	**3.72**	826,396	611	3.93	88% 1% 4% 13%
Python 3	16.93	1,777,852	434	17.58	78% 21% 4% 0%

binary-trees

source	secs	mem	gz	busy	cpu load
Go	**25.68**	361,532	950	101.67	99% 99% 99% 99%
Python 3	80.30	448,004	589	286.50	95% 87% 87% 88%

pidigits

source	secs	mem	gz	busy	cpu load
Go	**2.04**	8,732	603	2.09	10% 13% 28% 52%
Python 3	2.38	12,120	567	2.44	0% 3% 1% 98%

regex-redux

source	secs	mem	gz	busy	cpu load
Go	44.76	405,360	829	106.73	55% 52% 66% 65%
Python 3	2.12	111,692	1403	4.20	35% 41% 88% 34%

Go	go version go1.14 linux/amd64
Python 3	Python 3.8.0

all Go programs & measurements

all Python 3 programs & measurements

How programs are measured