Input 10 numbers

Execution time avg. 0.003s

Function Name	Number of Calls	Elapsed Inclusive Time %▼	Elapsed Exclusive Time %
⊿ ≽python.exe	0	100.00%	0.00%
	1	100.00%	7.41%
∠ of rozen importlibfin	1	53.88%	1.45%
> <frozen importlibfin<="" td=""><td>1</td><td>50.44%</td><td>0.23%</td></frozen>	1	50.44%	0.23%
> <frozen importlibm<="" td=""><td>1</td><td>0.94%</td><td>0.13%</td></frozen>	1	0.94%	0.13%
> <frozen importlibm<="" td=""><td>1</td><td>0.93%</td><td>0.48%</td></frozen>	1	0.93%	0.48%
> <frozen importlib.cb<="" td=""><td>1</td><td>0.07%</td><td>0.04%</td></frozen>	1	0.07%	0.04%
<frozen importlibm<="" td=""><td>1</td><td>0.03%</td><td>0.03%</td></frozen>	1	0.03%	0.03%
dict.get	1	0.01%	0.01%
	1	19.56%	3.28%
print	2	9.10%	9.10%
> re.findall	2	8.50%	0.14%
> mathlib.exp	11	0.60%	0.58%
> encodings.cp1250.lncre	3	0.43%	0.26%
round	1	0.36%	0.36%
mathlib.sum	30	0.08%	0.08%
> mathlib.root	1	0.04%	0.03%
mathlib.div	2	0.03%	0.03%
mathlib.mul	1	0.01%	0.01%
mathlib.sub	2	0.01%	0.01%

Input 100 numbers

Execution time avg. 0.003s

Function Name	Number of Calls	Elapsed Inclusive Time %▼	Elapsed Exclusive Time %
⊿ ⊳ python.exe	0	100.00%	0.00%
	1	100.00%	12.99%
> 🚜 < frozen impor	1	37.35%	0.99%
🄈 🚜 io.open	1	24.54%	3.99%
> re.findall	1	11.21%	0.14%
print	2	9.45%	9.45%
> mathlib.exp	101	2.48%	2.37%
mathlib.sum	300	0.81%	0.81%
	3	0.50%	0.25%
round	1	0.39%	0.39%
mathlib.sub	2	0.19%	0.19%
> mathlib.root	1	0.04%	0.04%
mathlib.div	2	0.03%	0.03%
mathlib.mul	1	0.01%	0.01%

Input 1000 numbers

Execution time avg. 0.0045s

Function Name	Number of Calls	Elapsed Inclusive Time %▼	Elapsed Exclusive Time %
∠ python.exe	0	100.00%	0.00%
	1	100.00%	32.52%
> 🚜 < frozen impor	1	21.68%	0.56%
🄈 🚜 io.open	1	13.53%	2.43%
> re.findall	1	10.81%	0.07%
> mathlib.exp	1,001	9.55%	8.99%
print	2	6.22%	6.22%
mathlib.sum	3,000	4.91%	4.91%
	3	0.42%	0.17%
round	1	0.22%	0.22%
mathlib.sub	2	0.10%	0.10%
> mathlib.root	1	0.02%	0.02%
mathlib.div	2	0.02%	0.02%
mathlib.mul	1	0.01%	0.01%

Input 10 000 numbers

Execution time avg. 0.025

Function Name	Number of Calls	Elapsed Inclusive Time %▼	Elapsed Exclusive Time %
⊿ ⊫python.exe	0	100.00%	0.00%
	1	100.00%	53.90%
	10,001	19.25%	18.17%
mathlib.sum	30,000	9.84%	9.84%
> re.findall	1	9.25%	0.03%
> <frozen importli<="" td=""><td>1</td><td>3.75%</td><td>0.10%</td></frozen>	1	3.75%	0.10%
io.open	1	2.61%	0.43%
print	2	0.97%	0.97%
	6	0.33%	0.03%
round	1	0.06%	0.06%
mathlib.sub	2	0.02%	0.02%
mathlib.div	2	0.01%	0.01%
> mathlib.root	1	0.01%	0.01%
mathlib.mul	1	0.00%	0.00%

Summary:

Importing libraries and processing input takes most of the time in input numbers under 100. The execution is low so there is no need for optimization in math_lib. Above 1000 input numbers process takes more time in math_lib especially in exponent and summary. Optimizing these 2 functions could save time.