

Profiler_example

September 6, 2021

```
[1]: import cProfile
import re
cProfile.run('re.compile("foo|bar")')
```

214 function calls (207 primitive calls) in 0.001 seconds

Ordered by: standard name

ncalls	totttime	percall	cumtime	percall	filename:lineno(function)
1	0.000	0.000	0.001	0.001	<string>:1(<module>)
2	0.000	0.000	0.000	0.000	enum.py:284(__call__)
2	0.000	0.000	0.000	0.000	enum.py:526(__new__)
1	0.000	0.000	0.000	0.000	enum.py:836(__and__)
1	0.000	0.000	0.001	0.001	re.py:232(compile)
1	0.000	0.000	0.001	0.001	re.py:271(_compile)
1	0.000	0.000	0.000	0.000	
sre_compile.py:249(_compile_charset)					
1	0.000	0.000	0.000	0.000	
sre_compile.py:276(_optimize_charset)					
2	0.000	0.000	0.000	0.000	sre_compile.py:453(_get_iscased)
1	0.000	0.000	0.000	0.000	
sre_compile.py:461(_get_literal_prefix)					
1	0.000	0.000	0.000	0.000	
sre_compile.py:492(_get_charset_prefix)					
1	0.000	0.000	0.000	0.000	sre_compile.py:536(_compile_info)
2	0.000	0.000	0.000	0.000	sre_compile.py:595(isstring)
1	0.000	0.000	0.000	0.000	sre_compile.py:598(_code)
3/1	0.000	0.000	0.000	0.000	sre_compile.py:71(_compile)
1	0.000	0.000	0.001	0.001	sre_compile.py:759(compile)
3	0.000	0.000	0.000	0.000	sre_parse.py:111(__init__)
7	0.000	0.000	0.000	0.000	sre_parse.py:160(__len__)
18	0.000	0.000	0.000	0.000	sre_parse.py:164(__getitem__)
7	0.000	0.000	0.000	0.000	sre_parse.py:172(append)
3/1	0.000	0.000	0.000	0.000	sre_parse.py:174(getwidth)
1	0.000	0.000	0.000	0.000	sre_parse.py:224(__init__)
8	0.000	0.000	0.000	0.000	sre_parse.py:233(__next)
2	0.000	0.000	0.000	0.000	sre_parse.py:249(match)
6	0.000	0.000	0.000	0.000	sre_parse.py:254(get)

1	0.000	0.000	0.000	0.000	sre_parse.py:286(tell)
1	0.000	0.000	0.000	0.000	sre_parse.py:417(_parse_sub)
2	0.000	0.000	0.000	0.000	sre_parse.py:475(_parse)
1	0.000	0.000	0.000	0.000	sre_parse.py:76(__init__)
2	0.000	0.000	0.000	0.000	sre_parse.py:81(groups)
1	0.000	0.000	0.000	0.000	sre_parse.py:903(fix_flags)
1	0.000	0.000	0.000	0.000	sre_parse.py:919(parse)
1	0.000	0.000	0.000	0.000	{built-in method _sre.compile}
1	0.000	0.000	0.001	0.001	{built-in method builtins.exec}
25	0.000	0.000	0.000	0.000	{built-in method
builtins.isinstance}					
29/26	0.000	0.000	0.000	0.000	{built-in method builtins.len}
2	0.000	0.000	0.000	0.000	{built-in method builtins.max}
9	0.000	0.000	0.000	0.000	{built-in method builtins.min}
6	0.000	0.000	0.000	0.000	{built-in method builtins.ord}
48	0.000	0.000	0.000	0.000	{method 'append' of 'list'
objects}					
1	0.000	0.000	0.000	0.000	{method 'disable' of
'_lsprof.Profiler' objects}					
5	0.000	0.000	0.000	0.000	{method 'find' of 'bytearray'
objects}					
1	0.000	0.000	0.000	0.000	{method 'items' of 'dict' objects}

```
[2]: cProfile.run('re.compile("date")')
```

109 function calls (108 primitive calls) in 0.000 seconds

Ordered by: standard name

ncalls	tottime	percall	cumtime	percall	filename:lineno(function)
1	0.000	0.000	0.000	0.000	<string>:1(<module>)
2	0.000	0.000	0.000	0.000	enum.py:284(__call__)
2	0.000	0.000	0.000	0.000	enum.py:526(__new__)
1	0.000	0.000	0.000	0.000	enum.py:836(__and__)
1	0.000	0.000	0.000	0.000	re.py:232(compile)
1	0.000	0.000	0.000	0.000	re.py:271(_compile)
1	0.000	0.000	0.000	0.000	
sre_compile.py:432(_generate_overlap_table)					
1	0.000	0.000	0.000	0.000	sre_compile.py:453(_get_iscased)
1	0.000	0.000	0.000	0.000	
sre_compile.py:461(_get_literal_prefix)					
1	0.000	0.000	0.000	0.000	sre_compile.py:536(_compile_info)
2	0.000	0.000	0.000	0.000	sre_compile.py:595(isstring)
1	0.000	0.000	0.000	0.000	sre_compile.py:598(_code)
1	0.000	0.000	0.000	0.000	sre_compile.py:71(_compile)
1	0.000	0.000	0.000	0.000	sre_compile.py:759(compile)

1	0.000	0.000	0.000	0.000	sre_parse.py:111(__init__)
1	0.000	0.000	0.000	0.000	sre_parse.py:160(__len__)
4	0.000	0.000	0.000	0.000	sre_parse.py:164(__getitem__)
4	0.000	0.000	0.000	0.000	sre_parse.py:172(append)
1	0.000	0.000	0.000	0.000	sre_parse.py:174(getwidth)
1	0.000	0.000	0.000	0.000	sre_parse.py:224(__init__)
5	0.000	0.000	0.000	0.000	sre_parse.py:233(__next)
1	0.000	0.000	0.000	0.000	sre_parse.py:249(match)
4	0.000	0.000	0.000	0.000	sre_parse.py:254(get)
1	0.000	0.000	0.000	0.000	sre_parse.py:286(tell)
1	0.000	0.000	0.000	0.000	sre_parse.py:417(_parse_sub)
1	0.000	0.000	0.000	0.000	sre_parse.py:475(_parse)
1	0.000	0.000	0.000	0.000	sre_parse.py:76(__init__)
2	0.000	0.000	0.000	0.000	sre_parse.py:81(groups)
1	0.000	0.000	0.000	0.000	sre_parse.py:903(fix_flags)
1	0.000	0.000	0.000	0.000	sre_parse.py:919(parse)
1	0.000	0.000	0.000	0.000	{built-in method _sre.compile}
1	0.000	0.000	0.000	0.000	{built-in method builtins.exec}
11	0.000	0.000	0.000	0.000	{built-in method
builtins.isinstance}					
13/12	0.000	0.000	0.000	0.000	{built-in method builtins.len}
3	0.000	0.000	0.000	0.000	{built-in method builtins.min}
4	0.000	0.000	0.000	0.000	{built-in method builtins.ord}
25	0.000	0.000	0.000	0.000	{method 'append' of 'list'
objects}					
1	0.000	0.000	0.000	0.000	{method 'disable' of
'_lsprof.Profiler' objects}					
2	0.000	0.000	0.000	0.000	{method 'extend' of 'list'
objects}					
1	0.000	0.000	0.000	0.000	{method 'items' of 'dict' objects}

```
[3]: cProfile.run('re.compile("date")', 'restats')
```

```
[4]: import pstats
from pstats import SortKey
p = pstats.Stats('restats')
p.strip_dirs().sort_stats(-1).print_stats()
```

Mon Sep 6 13:27:20 2021 restats

6 function calls in 0.000 seconds

Ordered by: standard name

ncalls	tottime	percall	cumtime	percall	filename:lineno(function)
1	0.000	0.000	0.000	0.000	<string>:1(<module>)

```

1      0.000      0.000      0.000      0.000 re.py:232(compile)
1      0.000      0.000      0.000      0.000 re.py:271(_compile)
1      0.000      0.000      0.000      0.000 {built-in method builtins.exec}
1      0.000      0.000      0.000      0.000 {built-in method
builtins.isinstance}
1      0.000      0.000      0.000      0.000 {method 'disable' of
'_lsprof.Profiler' objects}

```

[4]: <pstats.Stats at 0x7f26c05e9e90>

```
[5]: p.sort_stats(SortKey.NAME)
      p.print_stats()
```

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6 function calls in 0.000 seconds

Ordered by: function name

ncalls	tottime	percall	cumtime	percall	filename:lineno(function)
1	0.000	0.000	0.000	0.000	{built-in method builtins.exec}
1	0.000	0.000	0.000	0.000	{built-in method
					builtins.isinstance}
1	0.000	0.000	0.000	0.000	{method 'disable' of
					'_lsprof.Profiler' objects}
1	0.000	0.000	0.000	0.000	<string>:1(<module>)
1	0.000	0.000	0.000	0.000	re.py:271(_compile)
1	0.000	0.000	0.000	0.000	re.py:232(compile)

[5]: <pstats.Stats at 0x7f26c05e9e90>

```
[6]: p.sort_stats(SortKey.CUMULATIVE).print_stats(10)
```

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6 function calls in 0.000 seconds

Ordered by: cumulative time

ncalls	tottime	percall	cumtime	percall	filename:lineno(function)
1	0.000	0.000	0.000	0.000	{built-in method builtins.exec}
1	0.000	0.000	0.000	0.000	<string>:1(<module>)
1	0.000	0.000	0.000	0.000	re.py:232(compile)
1	0.000	0.000	0.000	0.000	re.py:271(_compile)
1	0.000	0.000	0.000	0.000	{built-in method

```
builtins.isinstance}
      1      0.000      0.000      0.000      0.000 {method 'disable' of
'_lsprof.Profiler' objects}
```

```
[6]: <pstats.Stats at 0x7f26c05e9e90>
```