

查看size & 有效的优化参数

Code Generation Options

-O0, -O1, -O2, -O3, -Ofast, -Os, -Oz, -Og, -O, -O4¶ Specify which optimization level to use:

-O0 Means "no optimization": this level compiles the fastest and generates the most debuggable code.

-O1 Somewhere between -O0 and -O2.

-O2 Moderate level of optimization which enables most optimizations.

-O3 Like -O2, except that it enables optimizations that take longer to perform or that may generate larger code (in an attempt to make the program run faster).

-Ofast Enables all the optimizations from -O3 along with other aggressive optimizations that may violate strict compliance with language standards.

-Os Like -O2 with extra optimizations to reduce code size.

-Oz Like -Os (and thus -O2), but reduces code size further.

-Og Like -O1. In future versions, this option might disable different optimizations in order to improve debuggability.

-O Equivalent to -O1.

-O4 and higher

Currently equivalent to -O3

- 在-O.. 等优化参数中，-Oz优化最为

```
[syh@506e56724728 size]$ pwd
/home/syh/size
[syh@506e56724728 size]$ uname -a
Linux 506e56724728 6.3.9-orbstack-00173-g5c15eb5460a9 #1 SMP Sun Jun 25 13:50:22 UTC 2023 aarch64 aarch64 aarch64 GNU/Linux
[syh@506e56724728 size]$ ls
test  test.cpp
[syh@506e56724728 size]$ clang++ test.cpp -o test -std=c++17
[syh@506e56724728 size]$ size test
   text    data     bss     dec      hex filename
  42596     912     560   44068   ac24 test
[syh@506e56724728 size]$ clang++ test.cpp -o test -std=c++17 -Oz
[syh@506e56724728 size]$ size test
   text    data     bss     dec      hex filename
  11692     896     560   13148   335c test
[syh@506e56724728 size]$
```