

5.

编译优化前:

```
[CPU]:
Intel(R) Core(TM) i7-7500U CPU @ 2.70GHz
[Memory]:
1010460 kB
[Linux]:
Linux ubuntu 3.13.0-32-generic #57-Ubuntu SMP Tue Jul 15 03:51:08 UTC 2014
x86_64 x86_64 x86_64 GNU/Linux
[MAC]:
Ethernet HWaddr 00:0c:29:df:87:e5
[Compiler]:
gcc (Ubuntu 4.8.4-2ubuntu1~14.04.4) 4.8.4
g++ (Ubuntu 4.8.4-2ubuntu1~14.04.4) 4.8.4
GNU Fortran (Ubuntu 4.8.4-2ubuntu1~14.04.4) 4.8.4
[Result]:
Success 164.gzip          ratio=2115.75, runtime=66.170348
Success 175.vpr           ratio=3142.35, runtime=44.552576
Success 176.gcc           ratio=4633.73, runtime=23.738962
Success 181.mcf           ratio=2755.56, runtime=65.322373
```

```
Success 186.crafty        ratio=4392.45, runtime=22.766333
Success 197.parser        ratio=2384.36, runtime=75.491923
Success 252.eon           ratio=6741.87, runtime=19.282473
Success 253.perlbmk       ratio=4413.37, runtime=40.785162
Success 254.gap           ratio=3827.80, runtime=28.737127
Success 255.vortex        ratio=4414.74, runtime=43.037652
Success 256.bzip2         ratio=2746.63, runtime=54.612369
Success 300.twolf         ratio=4016.74, runtime=74.687517
Success 168.wupwise       ratio=4050.75, runtime=39.498828
Success 171.swim          ratio=4190.59, runtime=73.975275
Success 172.mgrid         ratio=3935.63, runtime=45.735965
Success 173.applu         ratio=4687.31, runtime=44.801801
Success 177.mesa          ratio=4431.44, runtime=31.592468
Success 178.galgel        ratio=8716.68, runtime=33.269529
Success 179.art           ratio=13092.52, runtime=19.858664
Success 183.equake        ratio=6442.87, runtime=20.177346
Success 187.facerec       ratio=5448.36, runtime=34.872869
Success 188.ammpp         ratio=3485.92, runtime=63.110963
Success 189.lucas         ratio=6312.46, runtime=31.683349
Success 191.fma3d         ratio=3840.01, runtime=54.687384
Success 200.sixtrack      ratio=1663.09, runtime=66.141752
Success 301.apsi          ratio=5290.80, runtime=49.141864
```

编译优化后:

```

[CPU]:
Intel(R) Core(TM) i7-7500U CPU @ 2.70GHz
[Memory]:
1010460 kB
[Linux]:
Linux ubuntu 3.13.0-32-generic #57-Ubuntu SMP Tue Jul 15 03:51:08 UTC 2014
x86_64 x86_64 x86_64 GNU/Linux
[MAC]:
Ethernet HWaddr 00:0c:29:df:87:e5
[Compiler]:
gcc (Ubuntu 4.8.4-2ubuntu1~14.04.4) 4.8.4
g++ (Ubuntu 4.8.4-2ubuntu1~14.04.4) 4.8.4
GNU Fortran (Ubuntu 4.8.4-2ubuntu1~14.04.4) 4.8.4
[Result]:
Success 164.gzip          ratio=2033.06, runtime=68.861565
Success 175.vpr           ratio=2882.31, runtime=48.572188
Success 176.gcc           ratio=4418.32, runtime=24.896344
Success 181.mcf           ratio=2427.03, runtime=74.164576
Success 186.crafty        ratio=4214.88, runtime=23.725463
Success 197.parser        ratio=2266.44, runtime=79.419616
Success 252.eon           ratio=6057.86, runtime=21.459721
Success 253.perlbnmk      ratio=4474.48, runtime=40.228141
Success 254.gap           ratio=3721.77, runtime=29.555799
Success 255.vortex        ratio=4276.07, runtime=44.433364
Success 256.bzip2         ratio=2635.84, runtime=56.907823
Success 300.twolf         ratio=3667.26, runtime=81.804999
Success 168.wupwise       ratio=3914.34, runtime=40.875298
Success 171.swim          ratio=4138.71, runtime=74.902531
Success 172.mgrid         ratio=3716.94, runtime=48.426948
Success 173.applu         ratio=4655.28, runtime=45.110073
Success 177.mesa          ratio=4183.61, runtime=33.463895
Success 178.galgel        ratio=7560.19, runtime=38.358839
Success 179.art           ratio=11973.53, runtime=21.714570
Success 183.equake        ratio=6701.25, runtime=19.399373
Success 187.facerec       ratio=4972.39, runtime=38.211009
Success 188.amm           ratio=3457.90, runtime=63.622394
Success 189.lucas         ratio=6489.45, runtime=30.819263
Success 191.fma3d         ratio=4476.63, runtime=46.910290
Success 200.sixtrack      ratio=1744.18, runtime=63.066948
Success 301.apsi          ratio=5376.32, runtime=48.360255

```

可以看出，在编译优化后，测试性能提高，但提高幅度不是很大。

6.

Octane 分值测试结果如下表：

浏览器	iphone 6s	华为 mate 9	X86-Windows
Octane Score	17244	9426	16660
Richards	23349	15628	16800
Deltablue	29032	22837	17415
Crypto	25286	14294	20140
Raytrace	43733	19832	31968
Earleyboyer	23390	15047	21977
Regexp	2196	1389	3331
Splay	9036	5370	16445
Splaylatency	11058	8162	21036

Navierstockes	16407	18568	19177
Pdf.js	14575	5950	12930
Mandreel	15043	6046	12620
Mandreellatency	11813	16030	27093
Gb Emulator	31452	10485	19859
Codeload	15796	4141	9721
Box2dweb	14111	4124	7457
Zlib	32611	18679	46562
Typescript	28203	11028	21651

数据来源: <http://chromium.github.io/octane/>

由上表可明显看出, iPhone 浏览器的性能 > Windows > 华为手机。