

## Mac mini が遅い... ?

Mac mini がパフォーマンスの割に遅い気がする ...

と、Facebook に、つい書いてしまったら、いろんな人からコメントもらったのだけど、コンピュータに関係する仕事をしているのだから、ぼやく前にベンチマークくらい取るべきだったかな、と。で、xbench であわてて計ってみた結果が次の通り。

ちなみに、タスク殺して再起動した後の結果ではあるけど、バックグラウンドタスクはいろいろ走中での結果なので、そう正確なものではない。

この結果をみると、Mac mini が遅いというのは、大方の予想通りディスク性能の差がみえているのではないかと、という予想があたりそうではあるのだけれど、そんなに誰がディスク読み書きしてるのだろうか ...

ちなみに、"User Interface" という項目で MacBook Pro が MacBook Air を上回っているのだけど、これは何だろう？

計測したマシンは、

型名	CPU	メモリ	備考
MacBook Air 2012 mid	Core i5 1.8GHz	8GB 1600MHz DDR3	
Mac mini 2011 mid	Core i7 2.7GHz	4GB 1333MHz DDR3	
MacBook Pro 2009 mid	Core2 Duo 2.26GHz	8GB 1333MHz DDR3	ディスクは SSD に換装

以下、生データ

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Results 325.14
System Info
  Xbench Version 1.3
  System Version 10.7.5 (11G56)
  Physical RAM 8192 MB
  Model MacBookAir5,2
  Drive Type APPLE SSD TS128E
CPU Test 227.85
  GCD Loop 298.74 15.75 Mops/sec
  Floating Point Basic 212.48 5.05 Gflop/sec
  vecLib FFT 139.33 4.60 Gflop/sec
  Floating Point Library 430.20 74.91 Mops/sec
Memory Test 558.17
  System 553.07
    Allocate 2138.36 7.85 Malloc/sec
    Fill 384.01 18671.38 MB/sec
    Copy 425.08 8779.86 MB/sec
  Stream 563.37
    Copy 552.33 11408.22 MB/sec
    Scale 558.37 11535.69 MB/sec
    Add 575.58 12261.06 MB/sec
    Triad 567.75 12145.67 MB/sec
Quartz Graphics Test 331.33
  Line 313.82 20.89 Klines/sec [50% alpha]
  Rectangle 421.94 125.97 Krects/sec [50% alpha]
  Circle 310.77 25.33 Kcircles/sec [50% alpha]
  Bezier 293.14 7.39 Kbeziers/sec [50% alpha]
  Text 344.25 21.53 Kchars/sec
OpenGL Graphics Test 241.05
  Spinning Squares 241.05 305.79 frames/sec
User Interface Test 121.65
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Elements 121.65 558.32 refresh/sec
Disk Test 471.79
  Sequential 277.22
    Uncached Write 785.00 481.98 MB/sec [4K blocks]
    Uncached Write 498.17 281.86 MB/sec [256K blocks]
    Uncached Read 106.17 31.07 MB/sec [4K blocks]
    Uncached Read 578.51 290.76 MB/sec [256K blocks]
  Random 1582.43
    Uncached Write 2133.79 225.89 MB/sec [4K blocks]
    Uncached Write 938.35 300.40 MB/sec [256K blocks]
    Uncached Read 3155.37 22.36 MB/sec [4K blocks]
    Uncached Read 1478.22 274.29 MB/sec [256K blocks]

```

Results 357.35

```

System Info
  Xbench Version 1.3
  System Version 10.7.4 (11E53)
  Physical RAM 4096 MB
  Model Macmini5,2
  Drive Type TOSHIBA MK5065GSXF
CPU Test 248.80
  GCD Loop 327.70 17.27 Mops/sec
  Floating Point Basic 190.10 4.52 Gflop/sec
  vecLib FFT 171.87 5.67 Gflop/sec
  Floating Point Library 513.57 89.43 Mops/sec
Memory Test 610.89
  System 721.85
    Allocate 2392.30 8.79 Malloc/sec
    Fill 446.84 21726.22 MB/sec
    Copy 666.66 13769.69 MB/sec
  Stream 529.50
    Copy 520.77 10756.35 MB/sec
    Scale 503.89 10410.12 MB/sec
    Add 557.06 11866.47 MB/sec
    Triad 539.26 11536.02 MB/sec
Quartz Graphics Test 394.02
  Line 363.25 24.18 Klines/sec [50% alpha]
  Rectangle 497.50 148.53 Krects/sec [50% alpha]
  Circle 289.57 23.60 Kcircles/sec [50% alpha]
  Bezier 274.91 6.93 Kbeziers/sec [50% alpha]
  Text 1196.29 74.83 Kchars/sec
OpenGL Graphics Test 374.59
  Spinning Squares 374.59 475.19 frames/sec
User Interface Test 389.33
  Elements 389.33 1.79 Krefresh/sec
Disk Test 39.72
  Sequential 61.80
    Uncached Write 50.39 30.94 MB/sec [4K blocks]
    Uncached Write 62.85 35.56 MB/sec [256K blocks]
    Uncached Read 57.17 16.73 MB/sec [4K blocks]
    Uncached Read 87.18 43.81 MB/sec [256K blocks]
  Random 29.27
    Uncached Write 12.14 1.28 MB/sec [4K blocks]
    Uncached Write 61.12 19.57 MB/sec [256K blocks]
    Uncached Read 46.86 0.33 MB/sec [4K blocks]
    Uncached Read 60.32 11.19 MB/sec [256K blocks]

```

Results 186.99

```

System Info
  Xbench Version 1.3
  System Version 10.7.5 (11G56)
  Physical RAM 8192 MB
  Model MacBookPro5,5
  Drive Type INTEL SSDSC2CT240A3
CPU Test 158.79
  GCD Loop 264.75 13.96 Mops/sec
  Floating Point Basic 126.91 3.02 Gflop/sec
  vecLib FFT 107.37 3.54 Gflop/sec
  Floating Point Library 236.92 41.26 Mops/sec
Memory Test 188.70
  System 254.74
    Allocate 1195.50 4.39 Malloc/sec
    Fill 172.83 8403.54 MB/sec
    Copy 194.01 4007.29 MB/sec
  Stream 149.85
    Copy 140.16 2894.87 MB/sec
    Scale 141.96 2932.82 MB/sec
    Add 159.77 3403.55 MB/sec
    Triad 159.86 3419.73 MB/sec

```

Quartz Graphics Test 254.43  
   Line 203.07 13.52 Klines/sec [50% alpha]  
   Rectangle 273.02 81.51 Krects/sec [50% alpha]  
   Circle 206.70 16.85 Kcircles/sec [50% alpha]  
   Bezier 199.43 5.03 Kbeziers/sec [50% alpha]  
   Text 824.73 51.59 Kchars/sec  
 OpenGL Graphics Test 106.35  
   Spinning Squares 106.35 134.91 frames/sec  
 User Interface Test 240.33  
   Elements 240.33 1.10 Krefresh/sec  
 Disk Test 333.76  
   Sequential 199.92  
     Uncached Write 303.17 186.14 MB/sec [4K blocks]  
     Uncached Write 282.82 160.02 MB/sec [256K blocks]  
     Uncached Read 94.46 27.64 MB/sec [4K blocks]  
     Uncached Read 386.60 194.30 MB/sec [256K blocks]  
   Random 1009.72  
     Uncached Write 1475.24 156.17 MB/sec [4K blocks]  
     Uncached Write 547.23 175.19 MB/sec [256K blocks]  
     Uncached Read 1942.02 13.76 MB/sec [4K blocks]  
     Uncached Read 1062.34 197.12 MB/sec [256K blocks]