

HttpCoreBenchmark

HttpCore performance micro-benchmark

Benchmark source code

```
https://svn.apache.org/repos/asf/httpcomponents/benchmark/httpcore/trunk/
```

and then execute `mvn test`

Hardware specs of the system used to execute the benchmark

```
Intel(R) Core(TM) i7-3517U CPU @ 1.90GHz
Processor cache size: 4096 KB
RAM MemTotal: 3933112 kB
```

Components versions

- Benchmark revision r1464575
- HttpCore: 4.3-BETA1
- Jetty: 8.1.7.v20120910
- Netty: 3.6.2

Benchmark results

```
Linux ubuntu 3.5.0-26-generic #42-Ubuntu SMP Fri Mar 8 23:18:20 UTC 2013 x86_64 x86_64 x86_64 GNU/Linux
```

```
java version "1.7.0_13"
Java(TM) SE Runtime Environment (build 1.7.0_13-b20)
Java HotSpot(TM) 64-Bit Server VM (build 23.7-b01, mixed mode)
```

```
-----
Jetty (blocking I/O); version: 8.1.7.v20120910
-----
```

```
Server Software:      Jetty(8.1.7.v20120910)
Server Hostname:      localhost
Server Port:          8989
Document Path:        http://localhost:8989/rnd?c=2048
Document Length:      2048 bytes

Concurrency Level:     50
Time taken for tests:   101.296000 seconds
Complete requests:      4999999
Failed requests:        1
Write errors:           0
Kept alive:            4999999
Total transferred:      10239997952 bytes
Requests per second:    49,360.28 [# /sec] (mean)
Time per request:       1.013 [ms] (mean)
Time per request:       0.020 [ms] (mean, across all concurrent requests)
Transfer rate:          101,089.85 [Kbytes/sec] received
                        -1 kb/s sent
                        101,089.85 kb/s total
```

```
-----
HttpCore (blocking I/O); version: 4.3-beta1
-----
```

```
Server Software:      HttpCore-Test/1.1
Server Hostname:      localhost
```

Server Port: 8989
Document Path: http://localhost:8989/rnd?c=2048
Document Length: 2048 bytes

Concurrency Level: 50
Time taken for tests: 69.299000 seconds
Complete requests: 5000000
Failed requests: 0
Write errors: 0
Kept alive: 5000000
Total transferred: 10240000000 bytes
Requests per second: 72,151.11 [#/sec] (mean)
Time per request: 0.693 [ms] (mean)
Time per request: 0.014 [ms] (mean, across all concurrent requests)
Transfer rate: 147,765.48 [Kbytes/sec] received
-1 kb/s sent
147,765.48 kb/s total

Jetty (NIO); version: 8.1.7.v20120910

Server Software: Jetty(8.1.7.v20120910)
Server Hostname: localhost
Server Port: 8989
Document Path: http://localhost:8989/rnd?c=2048
Document Length: 2048 bytes

Concurrency Level: 50
Time taken for tests: 87.334000 seconds
Complete requests: 5000000
Failed requests: 0
Write errors: 0
Kept alive: 5000000
Total transferred: 10240000000 bytes
Requests per second: 57,251.47 [#/sec] (mean)
Time per request: 0.873 [ms] (mean)
Time per request: 0.017 [ms] (mean, across all concurrent requests)
Transfer rate: 117,251.01 [Kbytes/sec] received
-1 kb/s sent
117,251.01 kb/s total

HttpCore (NIO); version: 4.3-beta1

Server Software: HttpCore-NIO-Test/1.1
Server Hostname: localhost
Server Port: 8989
Document Path: http://localhost:8989/rnd?c=2048
Document Length: 2048 bytes

Concurrency Level: 50
Time taken for tests: 86.098000 seconds
Complete requests: 5000000
Failed requests: 0
Write errors: 0
Kept alive: 5000000
Total transferred: 10240000000 bytes
Requests per second: 58,073.36 [#/sec] (mean)
Time per request: 0.861 [ms] (mean)
Time per request: 0.017 [ms] (mean, across all concurrent requests)
Transfer rate: 118,934.24 [Kbytes/sec] received
-1 kb/s sent
118,934.24 kb/s total

Netty; version: 3.6.2

Server Software: null

```
Server Hostname:      localhost
Server Port:         8989
Document Path:       http://localhost:8989/rnd?c=2048
Document Length:     2048 bytes

Concurrency Level:    50
Time taken for tests:  79.597000 seconds
Complete requests:    5000000
Failed requests:      0
Write errors:         0
Kept alive:          5000000
Total transferred:    10240000000 bytes
Requests per second:  62,816.44 [#/sec] (mean)
Time per request:     0.796 [ms] (mean)
Time per request:     0.016 [ms] (mean, across all concurrent requests)
Transfer rate:        128,648.06 [Kbytes/sec] received
                    -1 kb/s sent
                    128,648.06 kb/s total

-----
```