

Sphinx Performance Graphs

Generated on April 16, 2009. <http://notes.jschutz.net/wp-content/uploads/2009/04/sphinx-performance.pdf>

Explanation of Graphs

The graphs on the following pages have been produced by from the statistics of the Sphinx search response times as recorded in the Sphinx query.log.

Response Time Cumulative Distribution The count of all query log instances with response time less than a given value (normalised by the total number of instances).

Response Time Normalised Frequency Distribution The count of all query log instances with response time in a given bin, normalised by the total number of instances. Bin end values are 0.001s, 0.003s, 0.005s, 0.01s, 0.03s, 0.05s, 0.1s, 0.3s, 0.5s, 1s, 3s, 5s, 10s, 30s, i.e. the first bin response time range is 0 - 0.001s, second bin 0.001 - 0.003, etc.

Word Count Cumulative Distribution The count of all query log instances with query word count less than a given value (normalised by the total number of instances).

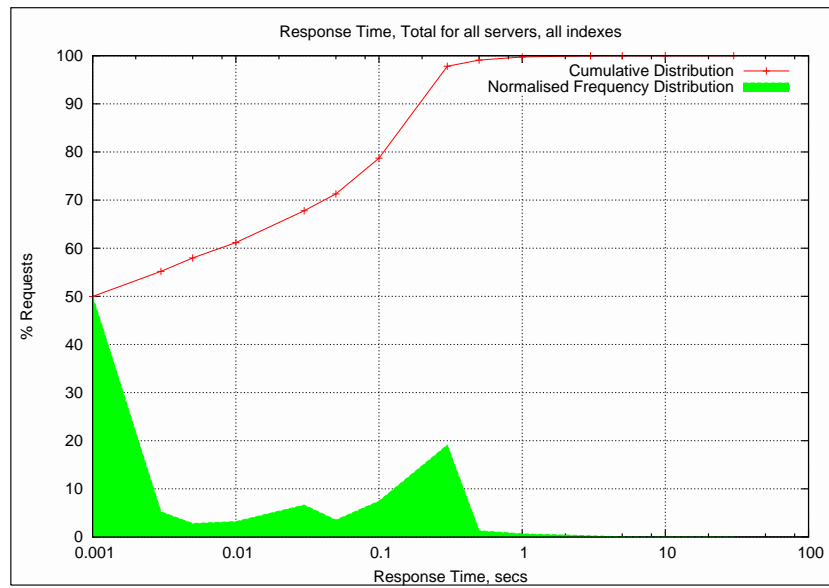
Word Count Normalised Frequency Distribution The count of all query log instances with word count in a given bin, normalised by the total number of instances. Bin end values are 0.001, 0.003, 0.005, 0.01, 0.03, 0.05, 0.1, 0.3, 0.5, 1, 3, 5, 10, 30 words.

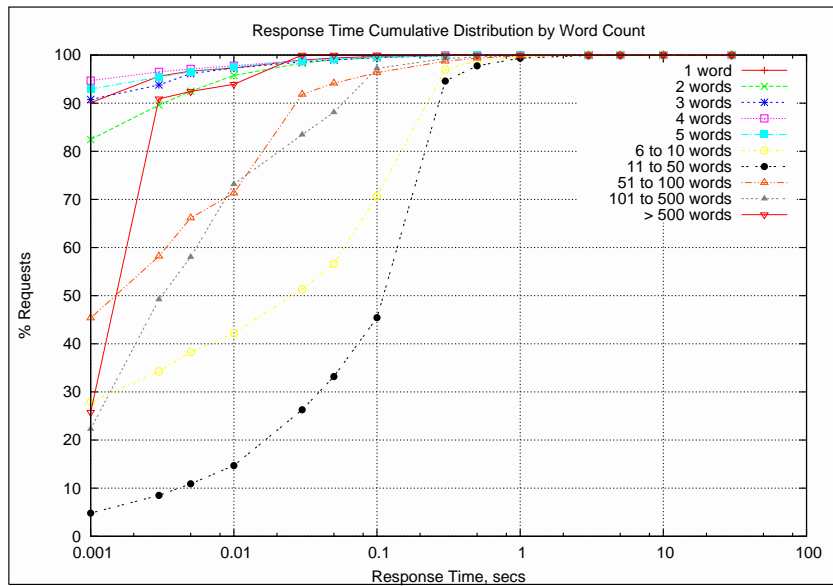
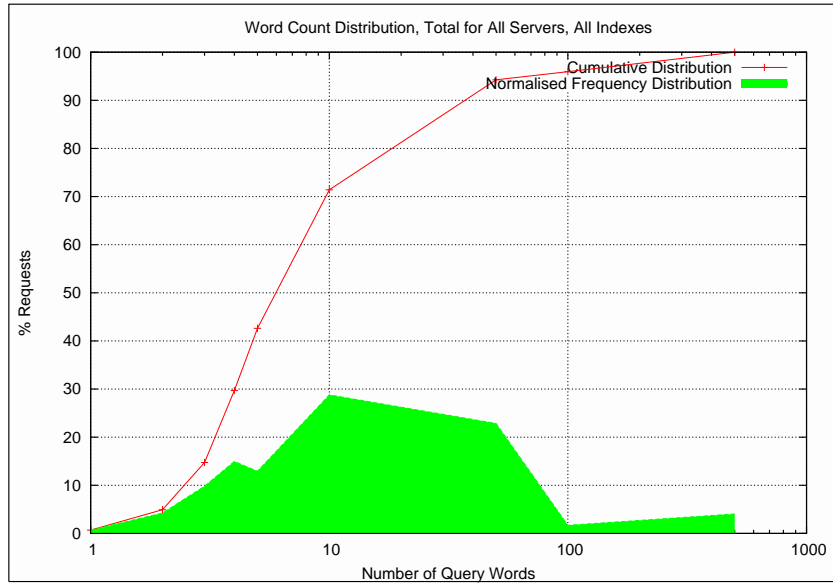
Summary Graphs

The following graphs show the sum of responses over all servers and all indexes

Dataset Sizes

This dataset contains 453495859 query log instances.





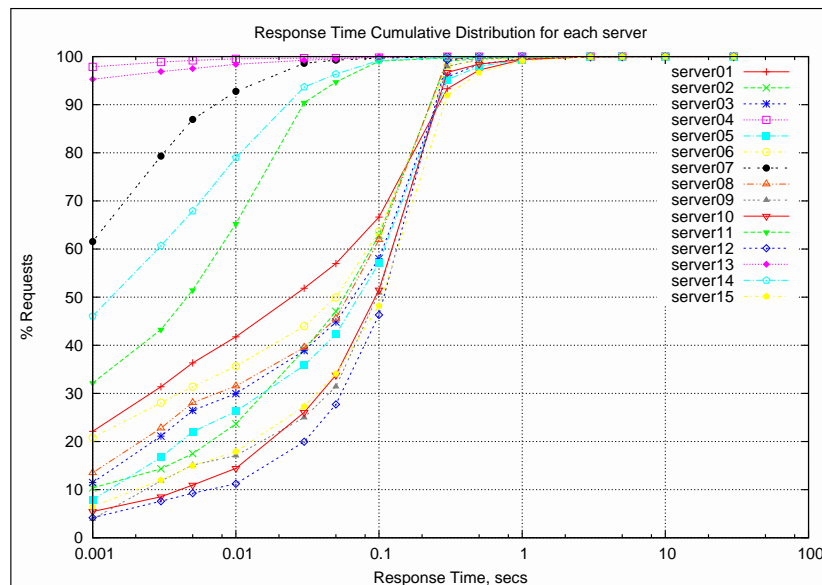
Per-server Graphs

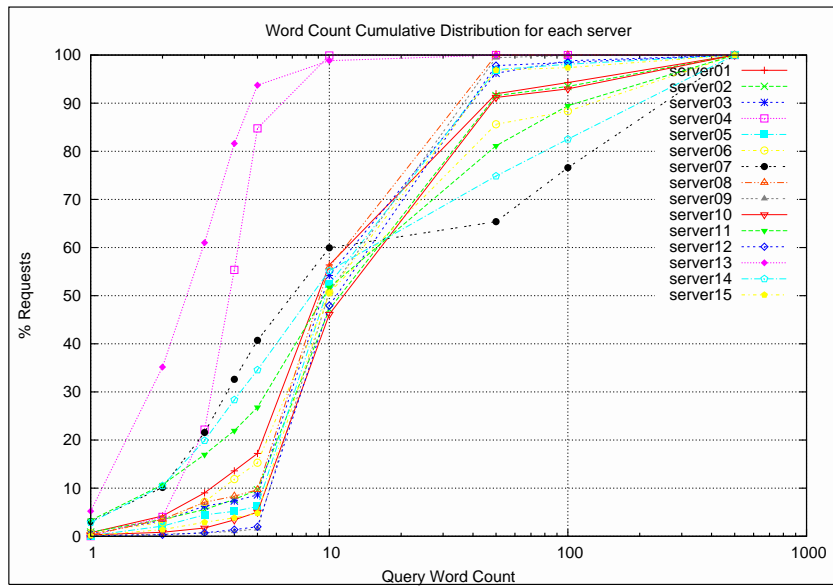
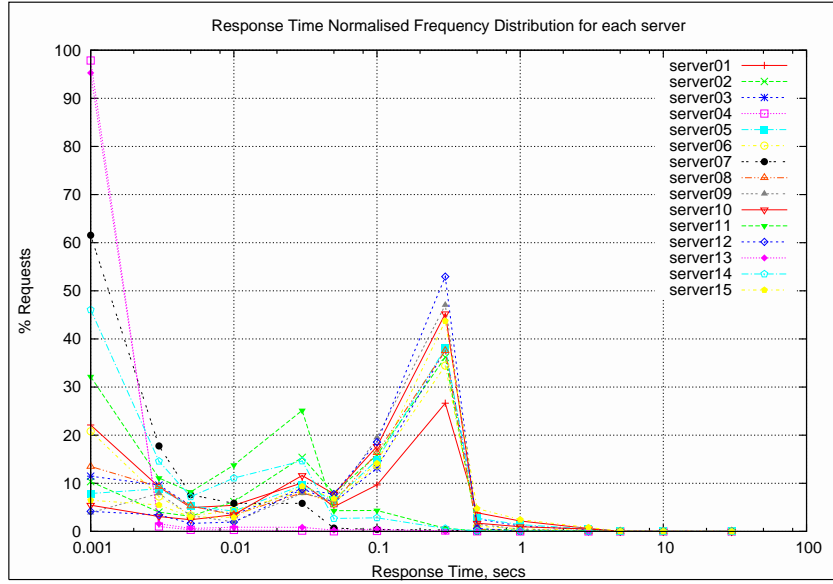
The following graphs show total responses for each server, summed over all indexes. Significant differences between servers may indicate a configuration problem.

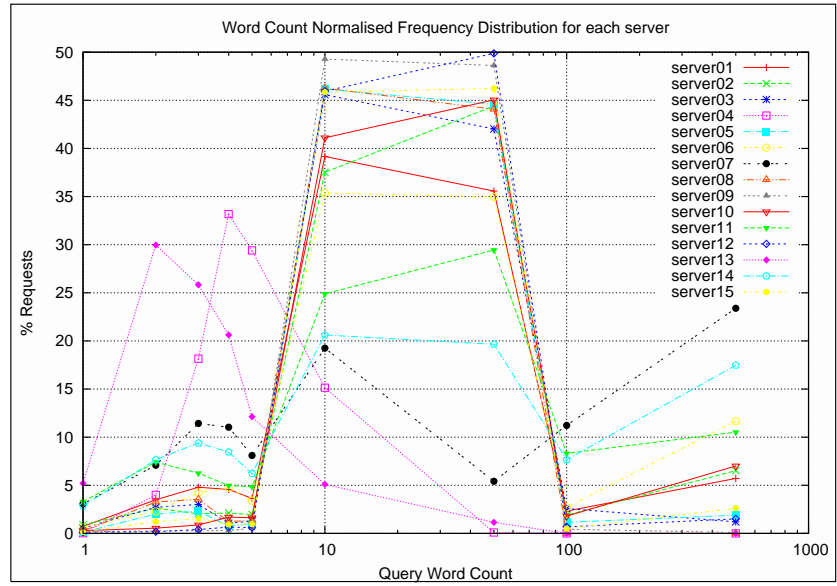
Dataset Sizes

The following table shows the number of query log instances used for each dataset.

| Dataset | Size |
|----------|-----------|
| server01 | 31012218 |
| server02 | 16046879 |
| server03 | 28153937 |
| server04 | 169185140 |
| server05 | 25425522 |
| server06 | 37992442 |
| server07 | 7218434 |
| server08 | 2547959 |
| server09 | 9929101 |
| server10 | 29050868 |
| server11 | 14580680 |
| server12 | 4363270 |
| server13 | 15656563 |
| server14 | 22461881 |
| server15 | 39870965 |







Per-index Graphs

The following graphs show total responses for each index across all servers.

Dataset Sizes

The following table shows the number of query log instances used for each dataset.

| Dataset | Size |
|----------------|-------------|
| index001 | 9476 |
| index002 | 9165706 |
| index003 | 1992962 |
| index004 | 3885037 |
| index005 | 431 |
| index006 | 1455107 |
| index007 | 3562 |
| index008 | 1711630 |
| index009 | 174306 |
| index010 | 1868598 |
| index011 | 48 |
| index012 | 6883 |
| index013 | 201 |
| index014 | 27203284 |
| index015 | 579 |
| index016 | 30 |
| index017 | 34 |
| index018 | 56768 |
| index019 | 4552 |
| index020 | 3877 |
| index021 | 5536637 |
| index022 | 223189 |
| index023 | 359 |
| index024 | 14719430 |
| index025 | 11636 |
| index026 | 236560 |
| index027 | 259 |
| index028 | 11447 |
| index029 | 279325 |
| index030 | 30 |
| index031 | 45455 |
| index032 | 168448 |
| index033 | 43 |
| index034 | 5946 |
| index035 | 1589004 |
| index036 | 11241 |
| index037 | 5240652 |
| index038 | 1748219 |
| index039 | 886348 |
| index040 | 16737476 |
| index041 | 566 |
| index042 | 83643 |

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| Dataset | Size |
|----------------|-------------|
| index043 | 95028866 |
| index044 | 825711 |
| index045 | 123947 |
| index046 | 7939364 |
| index047 | 1676 |
| index048 | 1810 |
| index049 | 90206 |
| index050 | 34818704 |
| index051 | 3206640 |
| index052 | 1371 |
| index053 | 66494 |
| index054 | 11 |
| index055 | 259759 |
| index056 | 1097 |
| index057 | 10374 |
| index058 | 643097 |
| index059 | 2064979 |
| index060 | 5687415 |
| index061 | 921 |
| index062 | 547415 |
| index063 | 3052820 |
| index064 | 227359 |
| index065 | 42316 |
| index066 | 98079 |
| index067 | 227 |
| index068 | 27999 |
| index069 | 39 |
| index070 | 150285 |
| index071 | 310840 |
| index072 | 302016 |
| index073 | 44173 |
| index074 | 45 |
| index075 | 44977 |
| index076 | 1008569 |
| index077 | 330151 |
| index078 | 88909 |
| index079 | 501381 |
| index080 | 10 |
| index081 | 446947 |
| index082 | 748 |
| index083 | 1574235 |
| index084 | 5506961 |
| index085 | 68 |
| index086 | 16965534 |
| index087 | 132808 |
| index088 | 2708598 |
| index089 | 890987 |
| index090 | 15 |
| index091 | 185740 |
| index092 | 1247226 |
| index093 | 4126371 |
| index094 | 1833909 |

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| Dataset | Size |
|----------------|-------------|
| index095 | 7499358 |
| index096 | 27 |
| index097 | 60 |
| index098 | 1616152 |
| index099 | 604685 |
| index100 | 1619028 |
| index101 | 14882 |
| index102 | 527 |
| index103 | 851900 |
| index104 | 539283 |
| index105 | 106761 |
| index106 | 2236365 |
| index107 | 15 |
| index108 | 1773844 |
| index109 | 36 |
| index110 | 15 |
| index111 | 64117 |
| index112 | 847447 |
| index113 | 1049529 |
| index114 | 219 |
| index115 | 38687 |
| index116 | 92731 |
| index117 | 12 |
| index118 | 968582 |
| index119 | 11 |
| index120 | 4688204 |
| index121 | 24 |
| index122 | 238 |
| index123 | 14 |
| index124 | 24239 |
| index125 | 1917636 |
| index126 | 3046176 |
| index127 | 222 |
| index128 | 30757 |
| index129 | 1032 |
| index130 | 122543 |
| index131 | 53798 |
| index132 | 2141504 |
| index133 | 1106702 |
| index134 | 4590445 |
| index135 | 303881 |
| index136 | 1280526 |
| index137 | 294 |
| index138 | 2432 |
| index139 | 1106461 |
| index140 | 28 |
| index141 | 75 |
| index142 | 271 |
| index143 | 9165538 |
| index144 | 81740 |
| index145 | 142853 |
| index146 | 18669272 |

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| Dataset | Size |
|----------------|-------------|
| index147 | 1782542 |
| index148 | 28 |
| index149 | 184 |
| index150 | 284817 |
| index151 | 115939 |
| index152 | 1709548 |
| index153 | 1037 |
| index154 | 41 |
| index155 | 55893 |
| index156 | 220148 |
| index157 | 817854 |
| index158 | 50448 |
| index159 | 102108 |
| index160 | 2214377 |
| index161 | 5 |
| index162 | 443743 |
| index163 | 867103 |
| index164 | 118 |
| index165 | 50 |
| index166 | 491992 |
| index167 | 11 |
| index168 | 145767 |
| index169 | 1297820 |
| index170 | 696948 |
| index171 | 54817 |
| index172 | 856627 |
| index173 | 227 |
| index174 | 2187969 |
| index175 | 792 |
| index176 | 1101279 |
| index177 | 99805 |
| index178 | 72771814 |
| index179 | 7710430 |
| index180 | 763212 |
| index181 | 5 |

