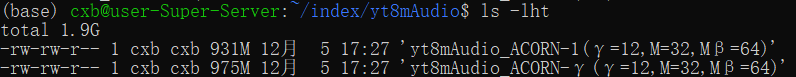
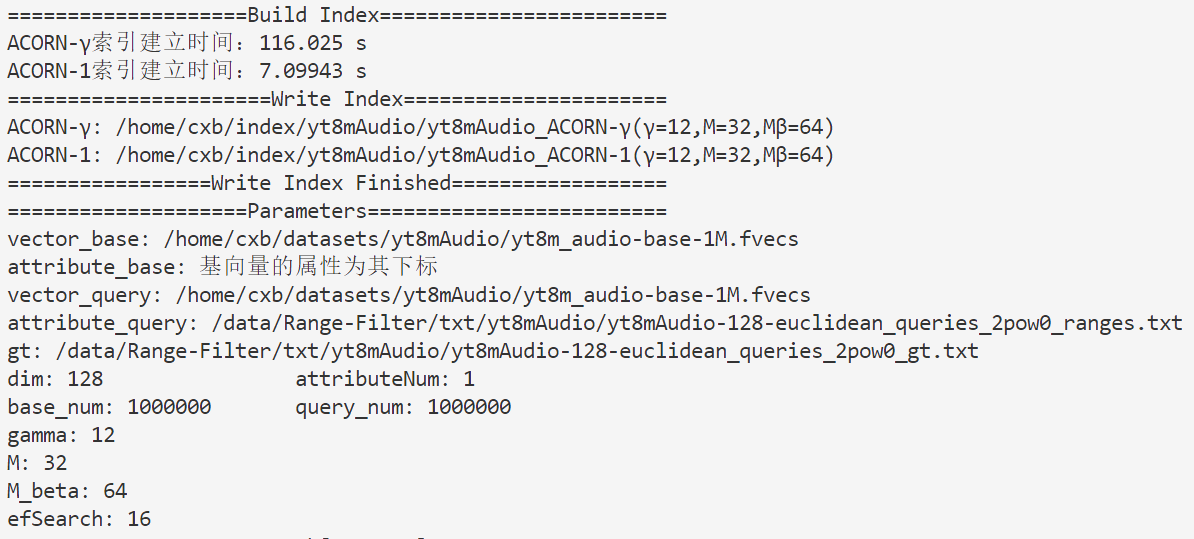
**范围长度分数：1**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 32 | 64 | 1.61309 | 6199.28 | 0.71334 |  |
| ACORN-1(efs=8) | 32 | 64 | 1.96082 | 5099.92 | 0.18991 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 32 | 64 | 2.20336 | 4538.53 | 0.8374 |  |
| ACORN-1(efs=16) | 32 | 64 | 2.93669 | 3405.19 | 0.35327 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 32 | 64 | 3.50203 | 2855.49 | 0.91806 |  |
| ACORN-1(efs=32) | 32 | 64 | 5.1652 | 1936.04 | 0.60694 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 32 | 64 | 5.63376 | 1775.01 | 0.9525 |  |
| ACORN-1(efs=64) | 32 | 64 | 8.88287 | 1125.76 | 0.77163 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 32 | 64 | 6.5978 | 1515.66 | 0.95902 |  |
| ACORN-1(efs=80) | 32 | 64 | 10.5731 | 945.8 | 0.8071 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 32 | 64 | 8.84999 | 1129.95 | 0.96817 |  |
| ACORN-1(efs=120) | 32 | 64 | 14.4293 | 693.033 | 0.8569 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 32 | 64 | 12.9163 | 774.213 | 0.97595 |  |
| ACORN-1(efs=200) | 32 | 64 | 21.4181 | 466.896 | 0.89929 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 32 | 64 | 22.7634 | 439.301 | 0.98148 |  |
| ACORN-1(efs=400) | 32 | 64 | 37.2082 | 268.758 | 0.93468 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 32 | 64 | 42.8226 | 233.522 | 0.98415 |  |
| ACORN-1(efs=800) | 32 | 64 | 67.0782 | 149.08 | 0.95475 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 32 | 64 | 118.88 | 84.1185 | 0.98572 |  |
| ACORN-1(efs=2000) | 32 | 64 | 166.978 | 59.888 | 0.96826 |  |



|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 64 | 128 | 2.79678 | 3575.55 | 0.82187 |  |
| ACORN-1(efs=8) | 64 | 128 | 3.9118 | 2556.37 | 0.29522 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 64 | 128 | 4.72306 | 2117.27 | 0.88907 |  |
| ACORN-1(efs=16) | 64 | 128 | 7.31291 | 1367.45 | 0.48687 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 64 | 128 | 5.66498 | 1765.23 | 0.93582 |  |
| ACORN-1(efs=32) | 64 | 128 | 9.81258 | 1019.1 | 0.73042 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 64 | 128 | 8.92494 | 1120.46 | 0.95838 |  |
| ACORN-1(efs=64) | 64 | 128 | 16.3257 | 612.533 | 0.86553 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 64 | 128 | 10.4514 | 956.807 | 0.96372 |  |
| ACORN-1(efs=80) | 64 | 128 | 19.3084 | 517.908 | 0.89157 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 64 | 128 | 13.6869 | 0.97449 | 0.97449 |  |
| ACORN-1(efs=120) | 64 | 128 | 26.596 | 0.92558 | 0.92558 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 64 | 128 | 19.6862 | 507.969 | 0.98 |  |
| ACORN-1(efs=200) | 64 | 128 | 38.3306 | 260.888 | 0.95211 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 64 | 128 | 32.6887 | 305.916 | 0.98394 |  |
| ACORN-1(efs=400) | 64 | 128 | 66.401 | 150.6 | 0.97155 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 64 | 128 | 58.981 | 169.546 | 0.9858 |  |
| ACORN-1(efs=800) | 64 | 128 | 113.158 | 88.3722 | 0.97997 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 64 | 128 | 150.992 | 66.2286 | 0.98673 |  |
| ACORN-1(efs=2000) | 64 | 128 | 252.074 | 39.6709 | 0.98472 |  |

**范围长度分数：1/4**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 32 | 64 | 1.84719 | 5413.62 | 0.72774 |  |
| ACORN-1(efs=8) | 32 | 64 | 2.90349 | 3444.13 | 0.60989 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 32 | 64 | 2.64433 | 3781.61 | 0.88415 |  |
| ACORN-1(efs=16) | 32 | 64 | 4.44204 | 2251.22 | 0.79156 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 32 | 64 | 4.42399 | 2260.4 | 0.95942 |  |
| ACORN-1(efs=32) | 32 | 64 | 8.23566 | 1214.23 | 0.915 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 32 | 64 | 7.48795 | 1335.48 | 0.97854 |  |
| ACORN-1(efs=64) | 32 | 64 | 15.2853 | 654.224 | 0.95678 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 32 | 64 | 8.89219 | 1124.58 | 0.98111 |  |
| ACORN-1(efs=80) | 32 | 64 | 18.6471 | 536.277 | 0.96345 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 32 | 64 | 12.2296 | 817.685 | 0.98382 |  |
| ACORN-1(efs=120) | 32 | 64 | 26.9181 | 371.498 | 0.97102 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 32 | 64 | 18.4533 | 541.909 | 0.98554 |  |
| ACORN-1(efs=200) | 32 | 64 | 42.8853 | 233.18 | 0.97631 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 32 | 64 | 33.4022 | 299.382 | 0.98657 |  |
| ACORN-1(efs=400) | 32 | 64 | 82.7559 | 120.837 | 0.98052 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 32 | 64 | 63.891 | 156.516 | 0.98706 |  |
| ACORN-1(efs=800) | 32 | 64 | 165.532 | 60.4114 | 0.98312 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 32 | 64 | 175.055 | 57.1248 | 0.98717 |  |
| ACORN-1(efs=2000) | 32 | 64 | 444.71 | 22.4866 | 0.98524 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 64 | 128 | 3.2842 | 3044.88 | 0.90235 |  |
| ACORN-1(efs=8) | 64 | 128 | 5.48323 | 1823.74 | 0.76651 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 64 | 128 | 4.44419 | 2250.13 | 0.95655 |  |
| ACORN-1(efs=16) | 64 | 128 | 8.49657 | 1176.95 | 0.89277 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 64 | 128 | 7.4657 | 1339.46 | 0.97906 |  |
| ACORN-1(efs=32) | 64 | 128 | 16.9837 | 588.801 | 0.96306 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 64 | 128 | 11.7752 | 849.243 | 0.98495 |  |
| ACORN-1(efs=64) | 64 | 128 | 33.624 | 297.407 | 0.98052 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 64 | 128 | 13.8702 | 720.972 | 0.98593 |  |
| ACORN-1(efs=80) | 64 | 128 | 42.0335 | 237.905 | 0.98289 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 64 | 128 | 19.1067 | 523.377 | 0.98663 |  |
| ACORN-1(efs=120) | 64 | 128 | 67.3372 | 148.506 | 0.98488 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 64 | 128 | 28.117 | 355.657 | 0.98708 |  |
| ACORN-1(efs=200) | 64 | 128 | 1116.228 | 86.0375 | 0.98641 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 64 | 128 | 68.8406 | 145.263 | 0.9872 |  |
| ACORN-1(efs=400) | 64 | 128 | 302.181 | 33.0928 | 0.98701 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 64 | 128 | 96.1584 | 103.995 | 0.98733 |  |
| ACORN-1(efs=800) | 64 | 128 | 738.774 | 13.5359 | 0.98716 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 64 | 128 |  |  |  |  |
| ACORN-1(efs=2000) | 64 | 128 |  |  |  |  |

**范围长度分数：1/16**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 32 | 64 | 2.12976 | 4695.37 | 0.746414 |  |
| ACORN-1(efs=8) | 32 | 64 | 4.81123 | 2078.47 | 0.85085 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 32 | 64 | 3.007 | 3325.57 | 0.88497 |  |
| ACORN-1(efs=16) | 32 | 64 | 6.74781 | 1481.96 | 0.92517 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 32 | 64 | 5.02679 | 1989.34 | 0.95619 |  |
| ACORN-1(efs=32) | 32 | 64 | 11.0777 | 902.715 | 0.96303 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 32 | 64 | 8.50178 | 1176.22 | 0.97639 |  |
| ACORN-1(efs=64) | 32 | 64 | 18.7216 | 534.143 | 0.97435 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 32 | 64 | 10.0935 | 990.74 | 0.9794 |  |
| ACORN-1(efs=80) | 32 | 64 | 22.3185 | 448.06 | 0.97639 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 32 | 64 | 13.8662 | 721.177 | 0.98252 |  |
| ACORN-1(efs=120) | 32 | 64 | 31.0914 | 321.632 | 0.97923 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 32 | 64 | 21.0069 | 476.035 | 0.98458 |  |
| ACORN-1(efs=200) | 32 | 64 | 48.2268 | 207.354 | 0.98143 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 32 | 64 | 38.5475 | 259.42 | 0.98583 |  |
| ACORN-1(efs=400) | 32 | 64 | 90.9939 | 109.898 | 0.9837 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 32 | 64 | 75.7472 | 132.018 | 0.98647 |  |
| ACORN-1(efs=800) | 32 | 64 | 182.121 | 54.9084 | 0.98504 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 32 | 64 | 207.521 | 48.1879 | 0.98668 |  |
| ACORN-1(efs=2000) | 32 | 64 | 489.122 | 20.4448 | 0.98601 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 64 | 128 | 3.62485 | 2758.73 | 0.91723 |  |
| ACORN-1(efs=8) | 64 | 128 | 9.70902 | 1029.97 | 0.96199 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 64 | 128 | 5.16761 | 1935.13 | 0.96103 |  |
| ACORN-1(efs=16) | 64 | 128 | 14.3635 | 696.21 | 0.97947 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 64 | 128 | 8.20533 | 1218.72 | 0.98038 |  |
| ACORN-1(efs=32) | 64 | 128 | 24.3195 | 411.193 | 0.98502 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 64 | 128 | 13.4638 | 742.733 | 0.98531 |  |
| ACORN-1(efs=64) | 64 | 128 | 43.7638 | 228.499 | 0.98649 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 64 | 128 | 15.8308 | 631.678 | 0.98591 |  |
| ACORN-1(efs=80) | 64 | 128 | 53.3811 | 187.332 | 0.98668 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 64 | 128 | 22.0481 | 453.554 | 0.98657 |  |
| ACORN-1(efs=120) | 64 | 128 | 77.1022 | 129.698 | 0.98707 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 64 | 128 | 33.2244 | 300.983 | 0.98705 |  |
| ACORN-1(efs=200) | 64 | 128 | 126.502 | 79.05 | 0.9872 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 64 | 128 | 62.1479 | 160.906 | 0.98725 |  |
| ACORN-1(efs=400) | 64 | 128 | 252.995 | 39.5264 | 0.98739 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 64 | 128 | 128.197 | 78.005 | 0.98728 |  |
| ACORN-1(efs=800) | 64 | 128 | 533.897 | 18.7302 | 0.98743 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 64 | 128 | 322.849 | 30.9742 | 0.98732 |  |
| ACORN-1(efs=2000) | 64 | 128 | 1421.84 | 7.03313 | 0.98746 |  |

**范围长度分数：1/64**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 32 | 64 | 2.33614 | 4280.56 | 0.45374 |  |
| ACORN-1(efs=8) | 32 | 64 | 4.90444 | 2038.97 | 0.72608 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 32 | 64 | 3.36942 | 2967.87 | 0.67361 |  |
| ACORN-1(efs=16) | 32 | 64 | 6.7935 | 1472 | 0.84732 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 32 | 64 | 5.67859 | 1761 | 0.8589 |  |
| ACORN-1(efs=32) | 32 | 64 | 10.856 | 921.135 | 0.92584 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 32 | 64 | 9.50378 | 1052.21 | 0.925 |  |
| ACORN-1(efs=64) | 32 | 64 | 18.1382 | 551.323 | 0.95685 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 32 | 64 | 11.2328 | 890.252 | 0.93447 |  |
| ACORN-1(efs=80) | 32 | 64 | 21.6227 | 462.478 | 0.96151 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 32 | 64 | 15.4706 | 646.387 | 0.94753 |  |
| ACORN-1(efs=120) | 32 | 64 | 30.4276 | 328.649 | 0.96894 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 32 | 64 | 23.7392 | 421.245 | 0.95705 |  |
| ACORN-1(efs=200) | 32 | 64 | 47.8138 | 209.145 | 0.97602 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 32 | 64 | 44.5686 | 224.373 | 0.96278 |  |
| ACORN-1(efs=400) | 32 | 64 | 92.4742 | 108.138 | 0.97959 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 32 | 64 | 88.5492 | 112.932 | 0.96559 |  |
| ACORN-1(efs=800) | 32 | 64 | 185.839 | 53.8099 | 0.98174 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 32 | 64 | 236.792 | 42.2312 | 0.96801 |  |
| ACORN-1(efs=2000) | 32 | 64 | 482.443 | 20.779 | 0.98352 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 64 | 128 | 4.553 | 2196.35 | 0.82491 |  |
| ACORN-1(efs=8) | 64 | 128 | 10.5166 | 950.881 | 0.95093 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 64 | 128 | 6.21707 | 1608.47 | 0.91817 |  |
| ACORN-1(efs=16) | 64 | 128 | 14.9588 | 668.501 | 0.97352 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 64 | 128 | 10.0551 | 994.52 | 0.95799 |  |
| ACORN-1(efs=32) | 64 | 128 | 25.2222 | 396.476 | 0.98327 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 64 | 128 | 17.1387 | 583.474 | 0.96785 |  |
| ACORN-1(efs=64) | 64 | 128 | 44.9504 | 222.468 | 0.9855 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 64 | 128 | 21.8776 | 457.088 | 0.96898 |  |
| ACORN-1(efs=80) | 64 | 128 | 56.136 | 178.139 | 0.98614 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 64 | 128 | 30.5777 | 327.035 | 0.97045 |  |
| ACORN-1(efs=120) | 64 | 128 | 81.676 | 122.435 | 0.9865 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 64 | 128 | 46.7927 | 213.708 | 0.97126 |  |
| ACORN-1(efs=200) | 64 | 128 | 131.832 | 75.8539 | 0.98703 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 64 | 128 | 91.9318 | 108.776 | 0.97197 |  |
| ACORN-1(efs=400) | 64 | 128 | 268.964 | 37.1797 | 0.98723 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 64 | 128 | 185.392 | 53.9399 | 0.9723 |  |
| ACORN-1(efs=800) | 64 | 128 | 548.565 | 18.2294 | 0.98729 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 64 | 128 |  |  |  |  |
| ACORN-1(efs=2000) | 64 | 128 |  |  |  |  |

**范围长度分数：1/256**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 32 | 64 | 1.94771 | 5134.23 | 0.09059 |  |
| ACORN-1(efs=8) | 32 | 64 | 4.72249 | 2117.53 | 0.29907 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 32 | 64 | 2.88949 | 3460.82 | 0.16766 |  |
| ACORN-1(efs=16) | 32 | 64 | 6.63314 | 1507.58 | 0.45968 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 32 | 64 | 4.88878 | 2045.5 | 0.33087 |  |
| ACORN-1(efs=32) | 32 | 64 | 10.4953 | 952.804 | 0.65968 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 32 | 64 | 8.01154 | 1248.2 | 0.48328 |  |
| ACORN-1(efs=64) | 32 | 64 | 17.6475 | 566.653 | 0.7878 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 32 | 64 | 9.42948 | 1060.5 | 0.51953 |  |
| ACORN-1(efs=80) | 32 | 64 | 21.1968 | 471.769 | 0.81436 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 32 | 64 | 12.8372 | 778.985 | 0.57514 |  |
| ACORN-1(efs=120) | 32 | 64 | 29.9216 | 334.207 | 0.85278 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 32 | 64 | 19.5177 | 512.357 | 0.62311 |  |
| ACORN-1(efs=200) | 32 | 64 | 47.165 | 212.021 | 0.88749 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 32 | 64 | 36.8311 | 271.51 | 0.66764 |  |
| ACORN-1(efs=400) | 32 | 64 | 90.1693 | 110.903 | 0.91478 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 32 | 64 | 71.7919 | 139.291 | 0.6942 |  |
| ACORN-1(efs=800) | 32 | 64 | 179.726 | 55.6402 | 0.93108 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 32 | 64 | 185.034 | 54.0443 | 0.7154 |  |
| ACORN-1(efs=2000) | 32 | 64 | 448.413 | 22.3009 | 0.94464 |  |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Index（γ=12） | M | Mβ | 查询时间(s) | QPS | Recall@10 | Recall@100 |
| ACORN-γ(efs=8) | 64 | 128 | 4.99355 | 2002.58 | 0.43521 |  |
| ACORN-1(efs=8) | 64 | 128 | 10.2589 | 974.765 | 0.76688 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=16) | 64 | 128 | 7.03249 | 1421.97 | 0.65049 |  |
| ACORN-1(efs=16) | 64 | 128 | 14.5269 | 688.378 | 0.87385 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=32) | 64 | 128 | 11.4324 | 874.709 | 0.82849 |  |
| ACORN-1(efs=32) | 64 | 128 | 25.3645 | 394.251 | 0.93996 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=64) | 64 | 128 | 19.7003 | 507.606 | 0.89419 |  |
| ACORN-1(efs=64) | 64 | 128 | 44.8555 | 222.938 | 0.96361 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=80) | 64 | 128 | 23.1554 | 431.864 | 0.90417 |  |
| ACORN-1(efs=80) | 64 | 128 | 55.9352 | 178.778 | 0.96747 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=120) | 64 | 128 | 33.6576 | 297.11 | 0.91576 |  |
| ACORN-1(efs=120) | 64 | 128 | 80.4573 | 124.29 | 0.97164 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=200) | 64 | 128 | 56.0955 | 178.267 | 0.92401 |  |
| ACORN-1(efs=200) | 64 | 128 | 132.311 | 75.5798 | 0.97462 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=400) | 64 | 128 | 114.668 | 87.2086 | 0.93071 |  |
| ACORN-1(efs=400) | 64 | 128 | 350.571 | 28.5249 | 0.97731 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=800) | 64 | 128 | 212.067 | 47.155 | 0.9346 |  |
| ACORN-1(efs=800) | 64 | 128 | 526.533 | 18.9922 | 0.97852 |  |
|  |  |  |  |  |  |  |
| ACORN-γ(efs=2000) | 64 | 128 |  |  |  |  |
| ACORN-1(efs=2000) | 64 | 128 |  |  |  |  |