

## 10% Sphoradic Loss

SERVER TO CLIENT: Initial Time 20.59118

Spin bit measurements:

timestamp time since measurement (ms)

|          |          |        |
|----------|----------|--------|
| 21.04231 | 0.45113  | 427.96 |
| 21.05895 | 0.467769 | 16.639 |
| 21.07809 | 0.486904 | 19.135 |
| 21.11895 | 0.527767 | 40.863 |
| 21.1412  | 0.550015 | 22.248 |
| 21.16164 | 0.570454 | 20.44  |
| 21.17895 | 0.587762 | 17.307 |
| 21.19343 | 0.602244 | 14.483 |
| 21.20761 | 0.616424 | 14.18  |
| 21.22401 | 0.632824 | 16.399 |
| 21.23851 | 0.64733  | 14.507 |
| 21.25468 | 0.663495 | 16.165 |
| 21.26878 | 0.6776   | 14.104 |
| 21.28545 | 0.694261 | 16.662 |
| 21.30308 | 0.711892 | 17.631 |
| 21.31629 | 0.725109 | 13.217 |
| 21.33283 | 0.741648 | 16.538 |
| 21.34931 | 0.758124 | 16.476 |
| 21.36491 | 0.77373  | 15.607 |
| 21.38102 | 0.789832 | 16.102 |
| 21.39605 | 0.804864 | 15.031 |
| 21.41088 | 0.819699 | 14.836 |
| 21.42779 | 0.836607 | 16.907 |
| 21.44299 | 0.851801 | 15.194 |
| 21.45975 | 0.868565 | 16.765 |
| 21.47369 | 0.882501 | 13.936 |
| 21.48862 | 0.897437 | 14.936 |
| 21.50559 | 0.914406 | 16.969 |
| 21.52181 | 0.930626 | 16.219 |
| 21.5363  | 0.945114 | 14.488 |
| 21.5517  | 0.960516 | 15.402 |
| 21.56798 | 0.976793 | 16.278 |
| 21.58285 | 0.99167  | 14.876 |
| 21.59811 | 1.00693  | 15.261 |
| 21.61317 | 1.021984 | 15.054 |
| 21.62981 | 1.038629 | 16.645 |
| 21.64634 | 1.055155 | 16.526 |
| 21.6608  | 1.069619 | 14.463 |
| 21.67535 | 1.084163 | 14.544 |

Delay bit measurements:

timestamp time since measurement (ms)

|          |          |        |
|----------|----------|--------|
| 21.05895 | 0.467769 | 16.639 |
| 21.07809 | 0.486904 | 19.135 |
| 22.14337 | 1.552184 | 14.578 |
| 22.15855 | 1.567362 | 15.178 |
| 22.17452 | 1.58334  | 15.977 |
| 22.18975 | 1.598564 | 15.224 |
| 22.20569 | 1.614509 | 15.946 |
| 22.22102 | 1.62984  | 15.33  |
| 22.2362  | 1.645018 | 15.178 |
| 22.25201 | 1.660828 | 15.81  |
| 22.26731 | 1.676127 | 15.299 |
| 24.354   | 3.762818 | 16.935 |
| 24.36905 | 3.777865 | 15.046 |
| 24.38521 | 3.794022 | 16.158 |
| 24.40011 | 3.808926 | 14.903 |
| 24.41709 | 3.82591  | 16.985 |
| 24.43367 | 3.842486 | 16.576 |
| 24.44661 | 3.855421 | 12.935 |
| 24.46281 | 3.871626 | 16.204 |
| 24.47737 | 3.886185 | 14.559 |
| 24.49098 | 3.899793 | 13.608 |
| 24.50619 | 3.915007 | 15.215 |
| 24.52389 | 3.932701 | 17.693 |
| 24.5357  | 3.944518 | 11.818 |
| 24.55099 | 3.959804 | 15.286 |
| 24.57139 | 3.980204 | 20.399 |

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|----------|----------|--------|
| 21.69183 | 1.100649 | 16.486 |
| 21.70916 | 1.117979 | 17.331 |
| 21.72973 | 1.138549 | 20.57  |
| 21.75625 | 1.165063 | 26.513 |
| 21.77045 | 1.179264 | 14.202 |
| 21.78893 | 1.197744 | 18.479 |
| 21.80229 | 1.211101 | 13.358 |
| 21.82053 | 1.229343 | 18.241 |
| 21.83309 | 1.241906 | 12.563 |
| 21.84976 | 1.258577 | 16.672 |
| 21.8642  | 1.273018 | 14.441 |
| 21.87925 | 1.288061 | 15.042 |
| 21.89552 | 1.30434  | 16.28  |
| 21.91022 | 1.319037 | 14.696 |
| 21.93626 | 1.345076 | 26.04  |
| 21.97295 | 1.381762 | 36.686 |
| 21.98697 | 1.395784 | 14.022 |
| 22.00132 | 1.41014  | 14.356 |
| 22.02045 | 1.429268 | 19.127 |
| 22.03291 | 1.441727 | 12.459 |
| 22.04893 | 1.457744 | 16.017 |
| 22.06536 | 1.474172 | 16.429 |
| 22.08274 | 1.491558 | 17.386 |
| 22.0977  | 1.506518 | 14.959 |
| 22.11171 | 1.520525 | 14.007 |
| 22.12879 | 1.537607 | 17.082 |
| 22.14337 | 1.552184 | 14.578 |
| 22.15855 | 1.567362 | 15.178 |
| 22.17452 | 1.58334  | 15.977 |
| 22.18975 | 1.598564 | 15.224 |
| 22.20569 | 1.614509 | 15.946 |
| 22.22102 | 1.62984  | 15.33  |
| 22.2362  | 1.645018 | 15.178 |
| 22.25201 | 1.660828 | 15.81  |
| 22.26731 | 1.676127 | 15.299 |
| 22.28741 | 1.696225 | 20.098 |
| 22.31538 | 1.724192 | 27.968 |
| 22.33013 | 1.738946 | 14.753 |
| 22.34618 | 1.755    | 16.055 |
| 22.36146 | 1.77028  | 15.28  |
| 22.37753 | 1.786341 | 16.06  |
| 22.39427 | 1.803081 | 16.741 |
| 22.40976 | 1.818575 | 15.493 |
| 22.42507 | 1.833881 | 15.306 |
| 22.43944 | 1.848256 | 14.376 |
| 22.45552 | 1.864335 | 16.079 |
| 22.47156 | 1.880374 | 16.038 |

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|----------|----------|--------|
| 22.4876  | 1.896419 | 16.046 |
| 22.50194 | 1.910752 | 14.333 |
| 22.51884 | 1.927654 | 16.902 |
| 22.53305 | 1.941862 | 14.207 |
| 22.5491  | 1.95792  | 16.059 |
| 22.56401 | 1.972824 | 14.904 |
| 22.58024 | 1.989054 | 16.229 |
| 22.59553 | 2.004343 | 15.29  |
| 22.6119  | 2.020712 | 16.369 |
| 22.62789 | 2.036703 | 15.99  |
| 22.64409 | 2.052904 | 16.201 |
| 22.65941 | 2.068227 | 15.324 |
| 22.67453 | 2.083346 | 15.119 |
| 22.6915  | 2.100319 | 16.972 |
| 22.70636 | 2.115171 | 14.852 |
| 22.72231 | 2.131123 | 15.953 |
| 22.73614 | 2.144952 | 13.829 |
| 22.76705 | 2.175867 | 30.915 |
| 22.78302 | 2.19184  | 15.972 |
| 22.79937 | 2.208187 | 16.347 |
| 22.81443 | 2.223241 | 15.055 |
| 22.83188 | 2.240693 | 17.452 |
| 22.84662 | 2.255431 | 14.737 |
| 22.86129 | 2.270101 | 14.671 |
| 22.87678 | 2.285593 | 15.492 |
| 22.89349 | 2.302308 | 16.715 |
| 22.90837 | 2.317182 | 14.874 |
| 22.92409 | 2.332904 | 15.722 |
| 22.94152 | 2.35034  | 17.435 |
| 22.95514 | 2.363952 | 13.612 |
| 22.97129 | 2.380107 | 16.155 |
| 22.98727 | 2.396081 | 15.974 |
| 23.00234 | 2.411153 | 15.073 |
| 23.01824 | 2.427053 | 15.899 |
| 23.03426 | 2.443072 | 16.02  |
| 23.04908 | 2.457895 | 14.823 |
| 23.0746  | 2.483419 | 25.523 |
| 23.10709 | 2.515905 | 32.486 |
| 23.12944 | 2.538255 | 22.35  |
| 23.15045 | 2.559266 | 21.012 |
| 23.16412 | 2.572933 | 13.666 |
| 23.18222 | 2.591037 | 18.105 |
| 23.19681 | 2.605629 | 14.591 |
| 23.21101 | 2.619827 | 14.199 |
| 23.22753 | 2.63635  | 16.522 |
| 23.24342 | 2.652233 | 15.883 |
| 23.25811 | 2.666927 | 14.695 |

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|----------|----------|--------|
| 23.27524 | 2.684058 | 17.13  |
| 23.28897 | 2.697782 | 13.725 |
| 23.30505 | 2.713868 | 16.086 |
| 23.32086 | 2.729679 | 15.81  |
| 23.3373  | 2.746112 | 16.434 |
| 23.35209 | 2.760903 | 14.791 |
| 23.36764 | 2.776451 | 15.548 |
| 23.38509 | 2.793906 | 17.454 |
| 23.39812 | 2.806939 | 13.033 |
| 23.41533 | 2.82415  | 17.212 |
| 23.42968 | 2.838493 | 14.342 |
| 23.44829 | 2.857108 | 18.615 |
| 23.46432 | 2.873134 | 16.027 |
| 23.47733 | 2.886143 | 13.008 |
| 23.49268 | 2.901497 | 15.354 |
| 23.50813 | 2.916947 | 15.45  |
| 23.52416 | 2.932973 | 16.026 |
| 23.5391  | 2.947914 | 14.941 |
| 23.55525 | 2.964069 | 16.155 |
| 23.57132 | 2.980136 | 16.067 |
| 23.58601 | 2.994823 | 14.687 |
| 23.60237 | 3.011186 | 16.363 |
| 23.61742 | 3.026235 | 15.049 |
| 23.63309 | 3.041907 | 15.673 |
| 23.64815 | 3.056963 | 15.055 |
| 23.6636  | 3.072418 | 15.455 |
| 23.67967 | 3.088483 | 16.066 |
| 23.69556 | 3.104371 | 15.888 |
| 23.71103 | 3.119845 | 15.473 |
| 23.72746 | 3.136274 | 16.429 |
| 23.74184 | 3.150655 | 14.382 |
| 23.75372 | 3.162532 | 11.877 |
| 23.77077 | 3.179583 | 17.051 |
| 23.78641 | 3.195229 | 15.646 |
| 23.80205 | 3.210866 | 15.636 |
| 23.81814 | 3.226951 | 16.086 |
| 23.83467 | 3.243481 | 16.529 |
| 23.85036 | 3.259179 | 15.698 |
| 23.86502 | 3.273831 | 14.652 |
| 23.88046 | 3.289276 | 15.445 |
| 23.89651 | 3.305324 | 16.049 |
| 23.91436 | 3.323177 | 17.852 |
| 23.92887 | 3.337685 | 14.509 |
| 23.94453 | 3.353342 | 15.657 |
| 23.95931 | 3.368123 | 14.781 |
| 23.97496 | 3.383772 | 15.649 |
| 23.98899 | 3.397807 | 14.034 |

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|----------|----------|--------|
| 24.00494 | 3.413751 | 15.944 |
| 24.021   | 3.429812 | 16.061 |
| 24.04298 | 3.451793 | 21.981 |
| 24.06707 | 3.475886 | 24.094 |
| 24.08294 | 3.491753 | 15.867 |
| 24.1013  | 3.51012  | 18.366 |
| 24.11397 | 3.522788 | 12.669 |
| 24.12954 | 3.538359 | 15.57  |
| 24.14502 | 3.553836 | 15.478 |
| 24.16114 | 3.569955 | 16.119 |
| 24.17717 | 3.585981 | 16.026 |
| 24.19165 | 3.600467 | 14.485 |
| 24.2082  | 3.617016 | 16.55  |
| 24.22376 | 3.632575 | 15.559 |
| 24.23928 | 3.648091 | 15.516 |
| 24.25523 | 3.66405  | 15.958 |
| 24.27025 | 3.679063 | 15.014 |
| 24.2859  | 3.694713 | 15.649 |
| 24.30188 | 3.710694 | 15.982 |
| 24.31608 | 3.724892 | 14.198 |
| 24.33707 | 3.745884 | 20.991 |
| 24.354   | 3.762818 | 16.935 |
| 24.36905 | 3.777865 | 15.046 |
| 24.38521 | 3.794022 | 16.158 |
| 24.40011 | 3.808926 | 14.903 |
| 24.41709 | 3.82591  | 16.985 |
| 24.43367 | 3.842486 | 16.576 |
| 24.44661 | 3.855421 | 12.935 |
| 24.46281 | 3.871626 | 16.204 |
| 24.47737 | 3.886185 | 14.559 |
| 24.49098 | 3.899793 | 13.608 |
| 24.50619 | 3.915007 | 15.215 |
| 24.52389 | 3.932701 | 17.693 |
| 24.5357  | 3.944518 | 11.818 |
| 24.55099 | 3.959804 | 15.286 |
| 24.57139 | 3.980204 | 20.399 |
| 24.60272 | 4.011532 | 31.329 |
| 24.62111 | 4.029925 | 18.393 |
| 24.63654 | 4.045356 | 15.431 |
| 24.65242 | 4.061233 | 15.877 |
| 24.66665 | 4.075462 | 14.228 |
| 24.6834  | 4.092219 | 16.758 |
| 24.6982  | 4.107015 | 14.796 |
| 24.71473 | 4.123548 | 16.533 |
| 24.72878 | 4.137591 | 14.042 |
| 24.74541 | 4.15423  | 16.64  |
| 24.7691  | 4.17792  | 23.69  |

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|----------|----------|--------|
| 24.78622 | 4.195039 | 17.119 |
| 24.80181 | 4.210627 | 15.588 |
| 24.81704 | 4.225855 | 15.227 |
| 24.83111 | 4.239926 | 14.072 |
| 24.84948 | 4.258297 | 18.37  |
| 24.86336 | 4.272173 | 13.876 |
| 24.88176 | 4.290579 | 18.407 |
| 24.89436 | 4.303178 | 12.599 |
| 24.90977 | 4.318581 | 15.402 |
| 24.92727 | 4.336083 | 17.502 |
| 24.94437 | 4.353183 | 17.101 |
| 24.95749 | 4.36631  | 13.126 |
| 24.9717  | 4.380514 | 14.205 |
| 24.98767 | 4.396488 | 15.973 |
| 25.00777 | 4.416585 | 20.097 |
| 25.03503 | 4.443843 | 27.259 |
| 25.05108 | 4.459899 | 16.055 |
| 25.06612 | 4.474933 | 15.034 |
| 25.08209 | 4.490908 | 15.975 |
| 25.0984  | 4.507219 | 16.312 |
| 25.11472 | 4.523538 | 16.318 |
| 25.12976 | 4.538578 | 15.041 |
| 25.14452 | 4.553336 | 14.757 |
| 25.16057 | 4.569387 | 16.051 |
| 25.19081 | 4.599621 | 30.235 |
| 25.20728 | 4.616095 | 16.474 |
| 25.22254 | 4.631357 | 15.261 |
| 25.25559 | 4.664405 | 33.048 |
| 25.27309 | 4.681907 | 17.502 |
| 25.28695 | 4.695763 | 13.856 |
| 25.30293 | 4.71175  | 15.988 |
| 25.31887 | 4.727682 | 15.932 |
| 25.33298 | 4.741799 | 14.117 |
| 25.34803 | 4.756843 | 15.044 |
| 25.36495 | 4.773764 | 16.921 |
| 25.37907 | 4.787886 | 14.121 |
| 25.39515 | 4.803963 | 16.077 |
| 25.41026 | 4.819073 | 15.11  |
| 25.42602 | 4.834833 | 15.761 |
| 25.44169 | 4.85051  | 15.677 |
| 25.4567  | 4.865517 | 15.006 |
| 25.47404 | 4.882851 | 17.334 |
| 25.49    | 4.898814 | 15.963 |
| 25.507   | 4.915815 | 17.002 |
| 25.52451 | 4.933322 | 17.506 |
| 25.54621 | 4.955021 | 21.7   |
| 25.56213 | 4.970944 | 15.922 |

|          |          |        |
|----------|----------|--------|
| 25.57923 | 4.988045 | 17.101 |
| 25.59422 | 5.003039 | 14.994 |

CLIENT TO SERVER:

Spin bit measurements:

timestamp time since measurement (ms)

|          |          |        |
|----------|----------|--------|
| 21.04492 | 0.453735 | 19.565 |
| 21.06629 | 0.475109 | 21.374 |
| 21.09546 | 0.504273 | 29.163 |
| 21.13029 | 0.53911  | 34.837 |
| 21.14907 | 0.557882 | 18.773 |
| 21.16467 | 0.573485 | 15.602 |
| 21.18037 | 0.589182 | 15.698 |
| 21.19606 | 0.604879 | 15.696 |
| 21.21146 | 0.620272 | 15.393 |
| 21.22703 | 0.635842 | 15.571 |
| 21.24278 | 0.651591 | 15.749 |
| 21.2583  | 0.667118 | 15.527 |
| 21.2739  | 0.682718 | 15.6   |
| 21.2895  | 0.698315 | 15.597 |
| 21.30533 | 0.714141 | 15.825 |
| 21.3207  | 0.72952  | 15.38  |
| 21.33646 | 0.74528  | 15.76  |
| 21.35195 | 0.760764 | 15.484 |
| 21.36761 | 0.776423 | 15.658 |
| 21.38358 | 0.792398 | 15.975 |
| 21.39913 | 0.807946 | 15.548 |
| 21.41486 | 0.823676 | 15.73  |
| 21.43055 | 0.839366 | 15.69  |
| 21.44593 | 0.854746 | 15.381 |
| 21.4615  | 0.870312 | 15.565 |
| 21.47711 | 0.885924 | 15.612 |
| 21.49279 | 0.90161  | 15.687 |
| 21.5084  | 0.917216 | 15.606 |
| 21.52401 | 0.932829 | 15.612 |
| 21.53953 | 0.948343 | 15.515 |
| 21.55508 | 0.963896 | 15.553 |
| 21.5707  | 0.979514 | 15.617 |
| 21.58649 | 0.995304 | 15.791 |
| 21.60179 | 1.010603 | 15.298 |

Delay bit measurements:

timestamp time since measurement (ms)

|          |          |        |
|----------|----------|--------|
| 21.06629 | 0.475109 | 21.374 |
| 21.09546 | 0.504273 | 29.163 |
| 22.13143 | 1.540247 | 15.797 |
| 22.14708 | 1.555894 | 15.647 |
| 22.16292 | 1.571735 | 15.842 |
| 22.17821 | 1.587026 | 15.29  |
| 22.19388 | 1.602699 | 15.674 |
| 22.20975 | 1.618561 | 15.862 |
| 22.22498 | 1.633793 | 15.231 |
| 22.24042 | 1.649237 | 15.444 |
| 22.25595 | 1.664769 | 15.532 |
| 22.27173 | 1.680549 | 15.781 |
| 23.30916 | 2.717972 | 15.65  |
| 24.34126 | 3.750078 | 15.691 |
| 24.35722 | 3.766034 | 15.957 |
| 24.37295 | 3.781769 | 15.735 |
| 24.38853 | 3.797341 | 15.571 |
| 24.40423 | 3.813046 | 15.705 |
| 24.42013 | 3.828946 | 15.9   |
| 24.43543 | 3.844247 | 15.302 |
| 24.4511  | 3.859913 | 15.666 |
| 24.46546 | 3.874272 | 14.358 |
| 24.47812 | 3.886932 | 12.661 |
| 24.49424 | 3.903051 | 16.119 |
| 24.50964 | 3.91846  | 15.408 |
| 24.5252  | 3.93402  | 15.561 |
| 24.53976 | 3.94858  | 14.56  |
| 24.55968 | 3.968492 | 19.912 |
| 24.57536 | 3.984172 | 15.679 |
| 25.5977  | 5.006511 | 15.636 |

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| 21.61748 | 1.026296 | 15.694 |
| 21.63348 | 1.042293 | 15.997 |
| 21.64907 | 1.057882 | 15.589 |
| 21.66441 | 1.073223 | 15.34  |
| 21.68017 | 1.088982 | 15.759 |
| 21.69566 | 1.104476 | 15.494 |
| 21.71197 | 1.120782 | 16.307 |
| 21.7434  | 1.152219 | 31.437 |
| 21.75889 | 1.167709 | 15.49  |
| 21.77448 | 1.183297 | 15.587 |
| 21.79001 | 1.19883  | 15.534 |
| 21.8058  | 1.214619 | 15.788 |
| 21.82144 | 1.23026  | 15.641 |
| 21.83697 | 1.245787 | 15.528 |
| 21.85249 | 1.26131  | 15.523 |
| 21.8681  | 1.276914 | 15.604 |
| 21.88369 | 1.292501 | 15.586 |
| 21.8993  | 1.308113 | 15.613 |
| 21.92378 | 1.332595 | 24.481 |
| 21.9595  | 1.368314 | 35.72  |
| 21.9749  | 1.383711 | 15.397 |
| 21.9904  | 1.399217 | 15.505 |
| 22.00638 | 1.415193 | 15.977 |
| 22.022   | 1.430813 | 15.62  |
| 22.03732 | 1.446139 | 15.326 |
| 22.053   | 1.461818 | 15.678 |
| 22.06879 | 1.477605 | 15.788 |
| 22.08452 | 1.493337 | 15.731 |
| 22.10019 | 1.509004 | 15.667 |
| 22.11563 | 1.524449 | 15.446 |
| 22.13143 | 1.540247 | 15.797 |
| 22.14708 | 1.555894 | 15.647 |
| 22.16292 | 1.571735 | 15.842 |
| 22.17821 | 1.587026 | 15.29  |
| 22.19388 | 1.602699 | 15.674 |
| 22.20975 | 1.618561 | 15.862 |
| 22.22498 | 1.633793 | 15.231 |
| 22.24042 | 1.649237 | 15.444 |
| 22.25595 | 1.664769 | 15.532 |
| 22.27173 | 1.680549 | 15.781 |
| 22.303   | 1.711818 | 31.268 |
| 22.31847 | 1.727286 | 15.469 |
| 22.3341  | 1.742917 | 15.631 |
| 22.34976 | 1.75858  | 15.662 |
| 22.36564 | 1.774455 | 15.876 |
| 22.38167 | 1.790484 | 16.028 |
| 22.39707 | 1.80589  | 15.407 |



|          |          |        |
|----------|----------|--------|
| 22.41262 | 1.821432 | 15.541 |
| 22.42818 | 1.837    | 15.568 |
| 22.44389 | 1.852704 | 15.705 |
| 22.45943 | 1.868249 | 15.544 |
| 22.47535 | 1.884167 | 15.918 |
| 22.49052 | 1.899336 | 15.169 |
| 22.50599 | 1.914802 | 15.467 |
| 22.52158 | 1.930394 | 15.591 |
| 22.53728 | 1.946093 | 15.7   |
| 22.5528  | 1.96162  | 15.527 |
| 22.56852 | 1.977332 | 15.712 |
| 22.58406 | 1.99288  | 15.548 |
| 22.59974 | 2.008555 | 15.674 |
| 22.6155  | 2.024313 | 15.758 |
| 22.63131 | 2.040127 | 15.815 |
| 22.64676 | 2.055575 | 15.447 |
| 22.66259 | 2.071401 | 15.827 |
| 22.67821 | 2.087021 | 15.619 |
| 22.6937  | 2.102513 | 15.493 |
| 22.70946 | 2.118274 | 15.76  |
| 22.72502 | 2.13384  | 15.567 |
| 22.75642 | 2.165239 | 31.399 |
| 22.77192 | 2.180739 | 15.499 |
| 22.78757 | 2.196387 | 15.649 |
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| 23.35601 | 2.764828 | 15.38  |
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| 23.40294 | 2.811752 | 15.677 |
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| 25.36818 | 4.776998 | 15.601 |
| 25.38374 | 4.792551 | 15.553 |
| 25.39936 | 4.808173 | 15.621 |
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| 25.58206 | 4.990874 | 15.528 |
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