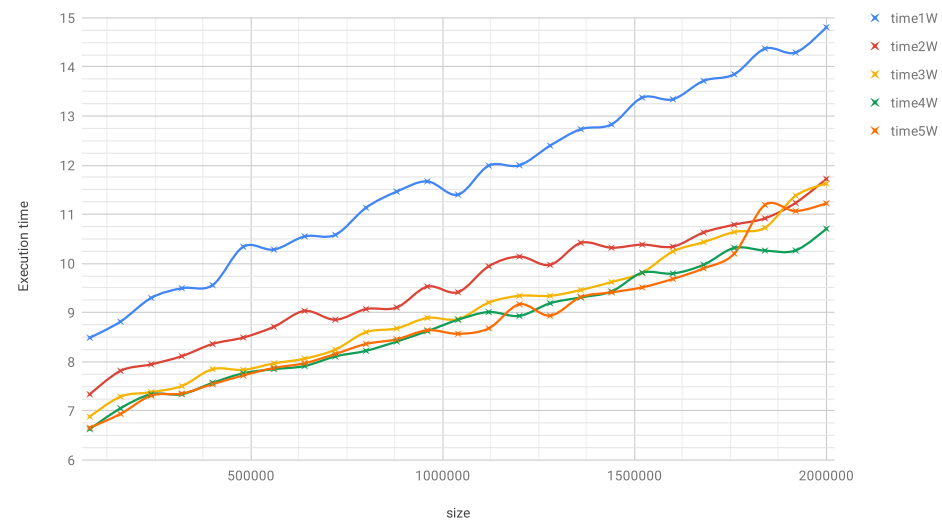


Ran on Sophia > uvb (Grid5000)

| 1 master, 5 workers | | | | | | | | | 1 master, 4 workers | | | | | | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| size | time0 | error0 | time1 | error1 | time2 | error2 | time5W | error5W | size | time0 | error0 | time1 | error1 | time2 | error2 | time4W | error4W |
| 80000 | 6.677697897 | 230543.3601 | 6.726410866 | 240534.8209 | 6.570355892 | 233058.6735 | 6.658154885 | 2.93390356 | 80000 | 6.542490005 | 228052.9254 | 6.631573915 | 229723.1404 | 6.710062027 | 228597.8942 | 6.628041983 | 2.8598915 |
| 160000 | 6.931034088 | 456587.1568 | 7.044690132 | 451989.2736 | 6.836528063 | 450482.6342 | 6.937417428 | 2.831373051 | 160000 | 6.992480993 | 444449.8129 | 7.255120039 | 532301.4079 | 6.911144972 | 450155.9961 | 7.052915335 | 2.972723368 |
| 240000 | 7.541124821 | 786142.9449 | 7.182843924 | 715782.0486 | 7.207546949 | 684527.0948 | 7.310505231 | 3.036739012 | 240000 | 7.31821084 | 796854.9358 | 7.376569986 | 784831.5023 | 7.323570967 | 680174.9457 | 7.339450598 | 3.141474144 |
| 320000 | 7.421666861 | 867663.7807 | 7.307487011 | 905184.0908 | 7.329570055 | 879550.9978 | 7.352907976 | 2.762915489 | 320000 | 7.233920813 | 857300.849 | 7.440728903 | 870228.9472 | 7.343049049 | 850408.0706 | 7.339232922 | 2.685351945 |
| 400000 | 7.41000104 | 1178861.954 | 7.620306969 | 1161799.315 | 7.599877119 | 1058951.124 | 7.543395042 | 2.833010327 | 400000 | 7.595201015 | 1108145.929 | 7.618089914 | 1207146.7 | 7.500469923 | 1198586.874 | 7.571253618 | 2.92823292 |
| 480000 | 7.756086111 | 1269787.051 | 7.731603861 | 1416694.802 | 7.676278114 | 1242214.116 | 7.721322695 | 2.728261089 | 480000 | 7.798296928 | 1324118.377 | 7.827936888 | 1327998.74 | 7.669636011 | 1191502.704 | 7.765289942 | 2.669180431 |
| 560000 | 7.872537851 | 1593854.522 | 7.854855061 | 1492420.402 | 7.895622969 | 1478514.851 | 7.874338627 | 2.717136771 | 560000 | 7.695487976 | 1473159.26 | 7.84432292 | 1498522.847 | 8.008089066 | 1515278.512 | 7.849299987 | 2.670809892 |
| 640000 | 7.966736078 | 1967772.092 | 7.769702911 | 1779241.146 | 8.172483206 | 1685394.513 | 7.969640732 | 2.829379037 | 640000 | 8.102821112 | 1732236.344 | 7.893117905 | 1701308.781 | 7.741961956 | 1683694.799 | 7.912633657 | 2.665229127 |
| 720000 | 8.24507308 | 1889649.106 | 8.079968929 | 2026374.697 | 8.15102005 | 2015248.327 | 8.158687353 | 2.745959319 | 720000 | 8.252929926 | 2604023.792 | 8.150887012 | 1890164.397 | 7.920284033 | 1930670.723 | 8.108033657 | 2.974471719 |
| 800000 | 8.192186117 | 2197667.59 | 8.317509174 | 2267721.898 | 8.577002048 | 2122563.025 | 8.362232447 | 2.744980213 | 800000 | 8.303630114 | 2141113.047 | 8.187068939 | 2124387.469 | 8.176900148 | 2121002.426 | 8.222533067 | 2.661042892 |
| 880000 | 8.513076067 | 2364781.403 | 8.43661499 | 2618080.848 | 8.419164896 | 2433862.059 | 8.456285318 | 2.809365269 | 880000 | 8.300348043 | 2324300.413 | 8.337915182 | 2337554.947 | 8.595169067 | 2324465.234 | 8.411144098 | 2.646333558 |
| 960000 | 9.060217857 | 2522297.772 | 8.488255024 | 2504036.738 | 8.373822927 | 2595015.23 | 8.64076527 | 2.646475604 | 960000 | 8.477007151 | 2805765.395 | 8.758563995 | 2656308.755 | 8.635613918 | 2503375.125 | 8.623728355 | 2.765780998 |
| 1040000 | 8.523317099 | 2712240.362 | 8.552738905 | 2733173.472 | 8.632138014 | 2742904.54 | 8.569398006 | 2.624461017 | 1040000 | 8.773185968 | 3060736.806 | 8.794545889 | 2764946.961 | 8.996594906 | 3046954.251 | 8.854775588 | 2.843794236 |
| 1120000 | 8.681552887 | 2906630.111 | 8.703953028 | 2987284.422 | 8.654075861 | 3167453.214 | 8.679860592 | 2.696835639 | 1120000 | 8.813894033 | 3119969.583 | 9.075010061 | 3161697.916 | 9.146967888 | 3062317.338 | 9.011957328 | 2.780947868 |
| 1200000 | 9.202214003 | 3568837.892 | 9.119323969 | 3144992.715 | 9.187855959 | 3478734.13 | 9.169797977 | 2.831267982 | 1200000 | 8.951181889 | 3391251.969 | 8.993730068 | 3600777.387 | 8.854686975 | 3260383.669 | 8.933199644 | 2.847892507 |
| 1280000 | 8.996212006 | 3608712.441 | 8.968327999 | 3405824.752 | 8.84996295 | 3772606.238 | 8.938167651 | 2.809151935 | 1280000 | 9.20843792 | 3746647.376 | 9.186366081 | 3371257.275 | 9.179054976 | 3825674.398 | 9.191286325 | 2.849890377 |
| 1360000 | 9.413790941 | 4027510.944 | 9.291163206 | 4039570.772 | 9.243046045 | 3701252.413 | 9.316000064 | 2.88439562 | 1360000 | 9.106662035 | 4027676.239 | 9.471917152 | 4051192.262 | 9.34976387 | 4045068.709 | 9.309447686 | 2.971553238 |
| 1440000 | 9.452817917 | 3906486.07 | 9.488044024 | 3899434.867 | 9.295435905 | 3973723.571 | 9.412099282 | 2.726769562 | 1440000 | 9.544285059 | 3716296.206 | 9.359298944 | 4213929.113 | 9.387950897 | 3958551.633 | 9.430511634 | 2.752027072 |
| 1520000 | 9.267249107 | 5072671.839 | 9.773877144 | 4172707.958 | 9.499670982 | 4006088.587 | 9.513599078 | 2.906023768 | 1520000 | 9.847906113 | 4096861.414 | 9.667638779 | 4080549.798 | 9.919945955 | 3970177.085 | 9.811830282 | 2.663944802 |
| 1600000 | 9.526027918 | 4161540.338 | 9.732589006 | 4296435.751 | 9.797627926 | 4336347.971 | 9.68541495 | 2.665484179 | 1600000 | 9.910070181 | 4638186.067 | 9.719383001 | 4354559.814 | 9.758773088 | 4246306.467 | 9.796075424 | 2.758135906 |
| 1680000 | 10.23312306 | 4977734.001 | 9.597285032 | 4450549.034 | 9.870614052 | 4533774.49 | 9.900340716 | 2.770249509 | 1680000 | 9.962685823 | 4993630.027 | 9.929501057 | 5074397.746 | 10.02876401 | 4635215.17 | 9.973650297 | 2.917310108 |
| 1760000 | 10.49919891 | 4891586.542 | 10.10142183 | 5194364.153 | 10.00420189 | 4737272.903 | 10.20160755 | 2.807428712 | 1760000 | 10.07040191 | 4774803.184 | 10.74589992 | 4596386.87 | 10.13386202 | 4750753.952 | 10.31672128 | 2.674610607 |
| 1840000 | 10.90666008 | 5133771.722 | 11.40590596 | 4900847.272 | 11.26365089 | 4932699.506 | 11.19207231 | 2.711470743 | 1840000 | 10.83469105 | 4993630.74 | 9.849964857 | 5060859.928 | 10.10198689 | 4846301.96 | 10.26221426 | 2.699418954 |
| 1920000 | 11.18062496 | 5248181.872 | 11.07145309 | 5469883.898 | 10.94865298 | 5093691.754 | 11.06691035 | 2.745096792 | 1920000 | 10.27227807 | 5217855.703 | 10.13268709 | 5106858.211 | 10.39077616 | 5019630.59 | 10.26524711 | 2.663948699 |
| 2000000 | 11.86490607 | 5925628.505 | 10.7927022 | 5289875.706 | 11.01629591 | 5333030.315 | 11.22463473 | 2.758089088 | 2000000 | 10.75878191 | 5302930.117 | 10.81978297 | 5288858.591 | 10.54396391 | 5412477.506 | 10.7075096 | 2.667377702 |

| 1 master, 3 workers | | | | | | | | | 1 master, 2 workers | | | | | | | | |
|---------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| size | time0 | error0 | time1 | error1 | time2 | error2 | time3W | error3W | size | time0 | error0 | time1 | error1 | time2 | error2 | time2W | error2W |
| 80000 | 7.108062029 | 305215.3365 | 6.853685856 | 231325.1046 | 6.682710171 | 230502.8618 | 6.881486018 | 3.196013762 | 80000 | 7.424451113 | 227237.8349 | 7.324312925 | 231482.9629 | 7.263665915 | 233137.0527 | 7.337476651 | 2.882741044 |
| 160000 | 7.318830013 | 453880.0877 | 7.226821899 | 469621.6913 | 7.323598146 | 447667.6193 | 7.28975002 | 2.856602913 | 160000 | 7.824298859 | 432999.7852 | 7.884883881 | 466545.2366 | 7.73479104 | 439466.0911 | 7.814657927 | 2.789606485 |
| 240000 | 7.467636108 | 659472.9408 | 7.340080976 | 678344.5249 | 7.338278055 | 722841.0051 | 7.38199838 | 2.862025654 | 240000 | 8.061558962 | 709480.1001 | 7.861694098 | 668139.2874 | 7.917696953 | 724416.6362 | 7.946983337 | 2.919494477 |
| 320000 | 7.370113134 | 871164.4666 | 7.682085037 | 971989.4298 | 7.464855909 | 852355.102 | 7.505684694 | 2.807821873 | 320000 | 8.26334095 | 903935.5631 | 7.932585001 | 849836.0699 | 8.145290136 | 859656.1743 | 8.113738696 | 2.722320633 |
| 400000 | 7.797317028 | 1168601.756 | 7.982787132 | 1036281.384 | 7.769325972 | 1122221.264 | 7.849810044 | 2.772587003 | 400000 | 8.293339968 | 991640.3639 | 8.36076808 | 1209485.359 | 8.433115959 | 1031102.602 | 8.362408002 | 2.693523604 |
| 480000 | 7.853353977 | 1225432.398 | 7.935919046 | 1322202.204 | 7.713940859 | 1190647.904 | 7.834404627 | 2.596029518 | 480000 | 8.461330175 | 1286623.08 | 8.671030998 | 1627367.057 | 8.343940973 | 1392658.123 | 8.492100716 | 2.990727958 |
| 560000 | 7.962913036 | 1593441.3 | 7.92295599 | 1471544.748 | 8.013397932 | 1499310.558 | 7.966422319 | 2.716843218 | 560000 | 8.531054974 | 1655858.83 | 8.921344995 | 1552336.938 | 8.682423115 | 1502019.809 | 8.711607695 | 2.803699748 |
| 640000 | 7.987107992 | 1678926.147 | 8.133934021 | 1941864.355 | 8.069221973 | 1803268.69 | 8.063421329 | 2.825030829 | 640000 | 9.080770016 | 1829737.837 | 9.162883997 | 1785405.906 | 8.860818863 | 1702867.645 | 9.034824292 | 2.769797598 |
| 720000 | 8.456346035 | 1992677.18 | 8.218999147 | 1964273.195 | 8.066092014 | 1930298.671 | 8.247145732 | 2.725578262 | 720000 | 8.778923988 | 2200349.436 | 8.891296148 | 1852685.145 | 8.896348953 | 2012642.911 | 8.85552303 | 2.808184024 |
| 800000 | 8.450163126 | 2110530.461 | 8.600342035 | 2205761.202 | 8.755964994 | 2123817.894 | 8.602156719 | 2.683378982 | 800000 | 8.753535986 | 2146532.615 | 9.572202921 | 2115195.207 | 8.891587019 | 2136915.424 | 9.072441975 | 2.666101352 |
| 880000 | 8.564696074 | 2272201.591 | 8.617022991 | 2344939.843 | 8.852934122 | 2347952.391 | 8.678217729 | 2.638293116 | 880000 | 9.027337074 | 2400899.213 | 8.994232893 | 2426672.419 | 9.291275978 | 2560169.962 | 9.104281982 | 2.798386967 |
| 960000 | 8.887997866 | 3567018.107 | 8.986480951 | 2617461.41 | 8.802111864 | 2598727.998 | 8.892196894 | 3.049724832 | 960000 | 9.713301897 | 2580738.842 | 9.268902063 | 2657925.536 | 9.6068151 | 2508224.68 | 9.52967302 | 2.689892034 |
| 1040000 | 9.05582047 | 3099696.036 | 8.672528028 | 3025526.981 | 8.874593019 | 2856735.33 | 8.867567698 | 2.878832803 | 1040000 | 9.495290995 | 3515906.051 | 9.501529932 | 2787101.509 | 9.252802134 | 2738124.071 | 9.41654102 | 2.897798599 |
| 1120000 | 9.211308956 | 2976701.559 | 9.395409822 | 3043398.388 | 9.005876064 | 3305475.213 | 9.204198281 | 2.775468798 | 1120000 | 9.91759491 | 3325465.532 | 9.78411603 | 3386540.024 | 10.12786698 | 3381707.282 | 9.943192641 | 3.004081202 |
| 1200000 | 9.279245853 | 3521398.339 | 9.308001041 | 3460308.34 | 9.439005136 | 3170557.069 | 9.34208401 | 2.820073263 | 1200000 | 10.25562286 | 3498716.018 | 10.18961096 | 3384554.43 | 9.976965189 | 3175866.198 | 10.140733 | 2.794204624 |
| 1280000 | 9.274926901 | 3715368.872 | 9.452331781 | 3404239.824 | 9.298228025 | 3324611.955 | 9.341828903 | 2.719849128 | 1280000 | 10.03380513 | 3434417.066 | 9.807991982 | 4379363.758 | 10.07508302 | 3415514.33 | 9.972293377 | 2.924295613 |
| 1360000 | 9.220785141 | 3587725.689 | 9.585994959 | 3578936.349 | 9.573883057 | 3561147.568 | 9.460221052 | 2.629365099 | 1360000 | 10.67534709 | 3672662.907 | 10.11577702 | 3876722.792 | 10.46710396 | 3744143.482 | 10.41940935 | 2.768021858 |
| 1440000 | 9.651272058 | 3775134.806 | 9.60788393 | 3749153.968 | 9.608854055 | 3769694.148 | 9.622670015 | 2.614347899 | 1440000 | 10.36606908 | 3898377.838 | 10.5093019 | 4227665.785 | 10.08611894 | 3752704.54 | 10.32049664 | 2.749710223 |
| 1520000 | 9.674419165 | 3956158.241 | 9.786439896 | 4237484.615 | 9.977074862 | 4046996.798 | 9.812644641 | 2.684350801 | 1520000 | 10.46077204 | 4481581.379 | 10.35741782 | 4160107.083 | 10.33419108 | 4395972.894 | 10.38412698 | 2.859136262 |
| 1600000 | 10.28032899 | 4648271.441 | 9.869663954 | 4386900.217 | 10.58418202 | 4249623.724 | 10.24472499 | 2.767665705 | 1600000 | 10.41643596 | 4326736.849 | 10.35260892 | 4457976.16 | 10.26156092 | 4260618.085 | 10.34353526 | 2.717777311 |
| 1680000 | 10.774863 | 4526522.026 | 10.2575469 | 4560484.132 | 10.26893902 | 4543640.755 | 10.43378297 | 2.704493435 | 1680000 | 10.43024802 | 4604991.442 | 10.54913807 | 4678406.396 | 10.91382313 | 4553042.932 | 10.63106974 | 2.74532555 |
| 1760000 | 10.81405807 | 4662436 | 10.45932007 | 4915654.91 | 10.64867902 | 5158837.529 | 10.64086572 | 2.791084932 | 1760000 | 10.68482494 | 4834565.777 | 10.8462019 | 5219507.971 | 10.83921909 | 4861343.128 | 10.79008198 | 2.82488956 |
| 1840000 | 10.61537719 | 4989686.061 | 10.62663698 | 5541909.063 | 10.93962717 | 5131244.317 | 10.72721378 | 2.837470913 | 1840000 | 11.09557509 | 5417493.934 | 10.89864206 | 5509371.715 | 10.76353097 | 4964930.052 | 10.91924938 | 2.878948496 |
| 1920000 | 11.29419613 | 5044887.793 | 11.44045997 | 5406304.037 | 11.40285897 | 5032334.355 | 11.37917169 | 2.688112185 | 1920000 | 11.43554688 | 5134493.397 | 11.14414787 | 6331235.463 | 11.121315 | 5318911.91 | 11.23366992 | 2.914000134 |
| 2000000 | 11.67553806 | 5859869.3 | 11.87341619 | 5597191.921 | 11.32707119 | 5403384.41 | 11.62534181 | 2.810074272 | 2000000 | 11.99077082 | 5291261.947 | 11.90335608 | 5171736.183 | 11.27227902 | 5271453.999 | 11.72213531 | 2.622408688 |
| 1 master, 1 worker | | | | | | | | | | | | | | | | | |
| size | time0 | error0 | time1 | error1 | time2 | error2 | time1W | error1W | size | Average error | | | | | | | |
| 80000 | 8.498252869 | 238262.6005 | 8.377066851 | 229368.2177 | 8.592105865 | 240320.7104 | 8.489141862 | 2.949798036 | 80000 | 2.96446958 | | | | | | | |
| 160000 | 8.721632957 | 440076.6439 | 8.832860947 | 464247.2348 | 8.894001961 | 441306.1213 | 8.816165288 | 2.803395833 | 160000 | 2.85074033 | | | | | | | |
| 240000 | 9.424962997 | 669157.8307 | 9.466987848 | 720739.1887 | 9.005875111 | 664402.4279 | 9.299275319 | 2.853193677 | 240000 | 2.962585393 | | | | | | | |
| 320000 | 9.561833858 | 867440.6093 | 9.693733931 | 872278.5476 | 9.235301971 | 984652.4482 | 9.496956587 | 2.837887089 | 320000 | 2.763259406 | | | | | | | |
| 400000 | 9.584331036 | 1202910.86 | 9.633574009 | 1078756.359 | 9.459950924 | 1039782.132 | 9.559285323 | 2.767874459 | 400000 | 2.799045662 | | | | | | | |
| 480000 | 10.45891118 | 1232971.353 | 10.17307997 | 1220151.861 | 10.38824892 | 1303524.307 | 10.34008002 | 2.608783 | 480000 | 2.718596399 | | | | | | | |
| 560000 | 10.40123701 | 1685901.026 | 10.1702311 | 1510159.106 | 10.27853703 | 1597098.202 | 10.28333505 | 2.853070437 | 560000 | 2.752312013 | | | | | | | |
| 640000 | 10.54030085 | 2209748.223 | 10.65444183 | 1943747.341 | 10.46101189 | 1694575.788 | 10.55191819 | 3.045870496 | 640000 | 2.827061417 | | | | | | | |
| 720000 | 10.70950294 | 1915274.358 | 10.19710684 | 2028118.818 | 10.84217691 | 1845721.248 | 10.5829289 | 2.680145566 | 720000 | 2.786867778 | | | | | | | |
| 800000 | 11.28436208 | 2453003.478 | 10.78280187 | 2234477.544 | 11.33685493 | 2184502.45 | 11.13467296 | 2.863326447 | 800000 | 2.723765977 | | | | | | | |
| 880000 | 11.18014598 | 2321165.648 | 11.85328603 | 2274280.432 | 11.35507894 | 2587395.867 | 11.46283698 | 2.720773465 | 880000 | 2.722630475 | | | | | | | |
| 960000 | 11.64493585 | 2535471.371 | 11.49880981 | 2529383.034 | 11.86840796 | 2656162.159 | 11.67071788 | 2.680908529 | 960000 | 2.766556399 | | | | | | | |
| 1040000 | 11.43172288 | 2781671.357 | 11.07361579 | 2824757.304 | 11.698138 | 2802473.421 | 11.40115889 | 2.695160924 | 1040000 | 2.788009516 | | | | | | | |
| 1120000 | 11.93097997 | 2990416.33 | 11.82794905 | 3094138.403 | 12.21691799 | 3071986.903 | | | | | | | | | | | |

Learning time



Learning error

