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| --- | --- | --- | --- | --- | --- | --- | --- |
| N | blas run 1 | blas run 2 | blas run 3 | blas run 4 | blas run 5 | blas run 6 | Average |
| 400 | 0.048624 | 0.042877 | 0.045068 | 0.03277 | 0.048315 | 0.04769 | 0.044224 |
| 800 | 0.203501 | 0.241703 | 0.242778 | 0.207297 | 0.202471 | 0.203004 | 0.21679233 |
| 1200 | 0.656465 | 0.656673 | 0.657331 | 0.658274 | 0.67508 | 0.657013 | 0.66013933 |
| 1400 | 1.03096 | 1.031224 | 1.03203 | 1.035478 | 1.045062 | 1.046176 | 1.03682167 |
| 1600 | 1.525725 | 1.525481 | 1.52485 | 1.531224 | 1.523821 | 1.525621 | 1.52612033 |

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| N | neopt run 1 | neopt run 2 | neopt run 3 | neopt run 4 | neopt run 5 | neopt run 6 | Average |
| 400 | 0.648051 | 0.681577 | 0.675707 | 0.630148 | 0.672361 | 0.681375 | 0.66486983 |
| 800 | 5.109627 | 5.116908 | 5.121133 | 5.038324 | 5.11961 | 5.034413 | 5.0900025 |
| 1200 | 17.055424 | 16.75197 | 16.788427 | 16.965994 | 16.809999 | 17.04055 | 16.9020607 |
| 1400 | 27.588505 | 27.6542 | 27.753664 | 27.563389 | 27.597616 | 27.567673 | 27.6208412 |
| 1600 | 47.677017 | 46.839638 | 47.710045 | 47.514465 | 47.313126 | 47.658009 | 47.45205 |

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| N | opt\_m run 1 | opt\_m run 2 | opt\_m run 3 | opt\_m run 4 | opt\_m run 5 | opt\_m run 6 | Average |
| 400 | 0.170987 | 0.12623 | 0.128568 | 0.139826 | 0.173467 | 0.164529 | 0.15060117 |
| 800 | 1.037989 | 0.999634 | 0.996068 | 1.000347 | 1.010438 | 0.996241 | 1.00678617 |
| 1200 | 3.345425 | 3.346522 | 3.37187 | 3.348186 | 3.343791 | 3.340089 | 3.34931383 |
| 1400 | 5.397864 | 5.405167 | 5.441648 | 5.428729 | 5.403303 | 5.441298 | 5.41966817 |
| 1600 | 8.475395 | 8.387436 | 8.46864 | 8.437127 | 8.439124 | 8.469693 | 8.44623583 |

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| N | opt\_f run 1 | opt\_f run 2 | opt\_f run 3 | opt\_f run 4 | opt\_f run 5 | opt\_f run 6 | Average |
| 400 | 0.130954 | 0.134062 | 0.151201 | 0.112352 | 0.144985 | 0.140081 | 0.13560583 |
| 800 | 0.816232 | 0.877832 | 0.854238 | 0.817754 | 0.857105 | 0.874581 | 0.84962367 |
| 1200 | 2.788615 | 2.748814 | 2.789375 | 2.806575 | 2.827855 | 2.788992 | 2.79170433 |
| 1400 | 4.73082 | 4.683425 | 4.758782 | 4.751099 | 4.703902 | 4.707545 | 4.7225955 |
| 1600 | 8.527223 | 8.387289 | 8.562209 | 8.50433 | 8.415972 | 8.519985 | 8.486168 |

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| N | opt\_f\_extra run 1 | opt\_f\_extra run 2 | opt\_f\_extra run 3 | opt\_f\_extra run 4 | opt\_f\_extra run 5 | opt\_f\_extra run 6 | Average |
| 400 | 0.108673 | 0.109343 | 0.100707 | 0.095547 | 0.119901 | 0.108277 | 0.10707467 |
| 800 | 0.710415 | 0.751874 | 0.694472 | 0.691801 | 0.746264 | 0.741502 | 0.72272133 |
| 1200 | 2.376057 | 2.22867 | 2.318405 | 2.312344 | 2.226591 | 2.249702 | 2.28529483 |
| 1400 | 3.857394 | 3.870419 | 3.884011 | 3.832379 | 3.910993 | 3.884848 | 3.87334067 |
| 1600 | 7.492222 | 7.288666 | 7.456815 | 7.441002 | 7.510702 | 7.43888 | 7.43804783 |

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| blas | neopt | opt\_m | opt\_f | opt\_f\_extra |
| 0.044224 | 0.664869833 | 0.150601167 | 0.135605833 | 0.107074667 |
| 0.216792333 | 5.0900025 | 1.006786167 | 0.849623667 | 0.722721333 |
| 0.660139333 | 16.90206067 | 3.349313833 | 2.791704333 | 2.285294833 |
| 1.036821667 | 27.62084117 | 5.419668167 | 4.7225955 | 3.873340667 |
| 1.526120333 | 47.45205 | 8.446235833 | 8.486168 | 7.438047833 |

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| N | blas | neopt | opt\_m | opt\_f | opt\_f\_extra |
| 400 | 0.044224 | 0.664869833 | 0.150601167 | 0.135605833 | 0.107074667 |
| 800 | 0.216792333 | 5.0900025 | 1.006786167 | 0.849623667 | 0.722721333 |
| 1200 | 0.660139333 | 16.90206067 | 3.349313833 | 2.791704333 | 2.285294833 |
| 1400 | 1.036821667 | 27.62084117 | 5.419668167 | 4.7225955 | 3.873340667 |
| 1600 | 1.526120333 | 47.45205 | 8.446235833 | 8.486168 | 7.438047833 |