Table 1: Performance Results for Griewank_2D Problem Optimizer Mean Final Std Dev Best Worst Mean Func Success Mean Time Value Value Value **Evals Rate** (%) (s)5.24e04.70e-22502.0 0.057Adam-5.16e05.30e00.0 AMSGrad Adam-Robust 5.36e06.83e-25.48e02502.0 0.0 0.0565.26e0L-BFGS-4.91e07.72e-34.91e04.95e02427.6 0.0 0.055Aggressive Adam 5.24e04.43e-25.16e05.30e02502.00.0 0.050 Adam-4.92e02.42e-64.92e04.92e02231.2 0.0 0.047WeightDecay 1668.0 0.0 0.041 GD 4.91e03.24e-84.91e04.91e0L-BFGS-4.91e04.49e-84.91e04.91e0927.30.00.021Limited QQN-4.74e03.50e-13.76e04.91e0347.6 0.00.015 StrongWolfe GD-4.91e01.03e-74.91e04.91e0406.6 0.0 0.012 WeightDecay L-BFGS-4.91e03.09e-94.91e04.91e0504.6 0.0 0.012Conservative L-BFGS 4.91e03.75e-84.91e04.91e0295.6 0.00.006 QQN-258.3 4.91e01.03e-134.91e04.91e00.00.004 GoldenSection **GD-Nesterov** 4.91e01.90e-44.91e04.91e0125.0 0.0 0.004**GD-Momentum** 4.91e04.49e-44.91e0100.2 0.00.003 4.91e0Region-Trust 4.92e02.48e-34.91e04.92e0336.50.0 0.002Conservative QQN-4.80e04.73e-12.74e04.91e077.3 0.00.002 CubicQuadraticInterpolation QQN-Bisection-4.91e094.6 0.0 0.002 4.66e02.21e-14.25e01.27e-134.91e0QQN-Bisection-4.91e04.91e076.3 0.0 0.002 Adam-Fast 4.93e06.09e-34.92e04.94e067.0 0.0 0.001 L-BFGS-4.91e01.88e-74.91e04.91e073.0 0.00.001 MoreThuente GD-4.99e05.58e-34.97e05.00e032.0 0.00.001 AdaptiveMomentum Trust Region-4.95e01.38e-24.93e04.97e058.7 0.0 0.000 Precise Trust Region-5.11e01.18e-15.00e05.54e016.4 0.00.000Adaptive Trust Region-6.00e06.58e-25.90e06.12e05.0 0.00.000Aggressive 0.0 0.000 Trust Region-5.99e07.24e-25.90e06.16e05.0 Standard