Table J.3. Comparison of wall runtimes of various approximations of the logdeterminant $\hat{\ell}_n$. Model ResNet18 Configuration ResNet9 ResNet9 MobileNet MNIST Dataset CIFAR-10 CIFAR-10 CIFAR-10 Subsample Size n = 1000n = 2500n = 1000n = 2500Direct Computation (16-bit) 6.69 49.35 5.50 70.90 54.05 Direct Computation (32-bit) 7.08 49.39 5.87 (seconds) Direct Computation (64-bit) 7.09 51.57 5.97 51.22Block Diagonal 0.00376 0.00982 0.003420.00855148.80 SLQ 8.904 67.70 22.18 Pseudo NTK 0.01510.0776 0.0149 0.0828 FLODANCE $n_0 = 1, n_s = 50$ 0.00850.00880.00890.0091 FLODANCE $n_0 = 1, n_s = 100$ 0.01760.01860.01680.0175 FLODANCE $n_0 = 300, n_s = 500$ 0.3770.3500.3540.376