

# 1 Experiment Set Difference: Separable Convolutions (64 filters) v. Separable Convolutions (512 filters)

## 1.1 Average Treatment Effect (Per Experiment in Experiment Set)

cpu_hours	-1.51515 +/- 0.00537876 (stderr) (p=3.44582e-06, Welch's t-test)
gpu_hours	-1.38206 +/- 0.000952745 (stderr) (p=1.15965e-14, Welch's t-test)
estimated_carbon_impact_kg	-0.126184 +/- 0.0087447 (stderr) (p=0.00186436, Welch's t-test)
total_power	-0.381584 +/- 0.010848 (stderr) (p=0.000314557, Welch's t-test)
kw_hr_gpu	-0.213205 +/- 0.000431804 (stderr) (p=6.33886e-07, Welch's t-test)
kw_hr_cpu	-0.0283045 +/- 0.00722314 (stderr) (p=0.0244964, Welch's t-test)
exp_len_hours	-1.39676 +/- 0.000733169 (stderr) (p=2.44009e-18, Welch's t-test)
average_realtime_carbon_intensity	-36.8736 +/- 5.43952 (stderr) (p=3.13945e-05, Welch's t-test)

## 1.2 Cumulative Difference (Per Experiment Set)

cpu_hours	-4.293341666666667
gpu_hours	-3.9249367800399884
estimated_carbon_impact_kg	-0.36137435899915804
total_power	-1.0869556939730416
kw_hr_gpu	-0.6056210057287813
kw_hr_cpu	-0.08232563602630835
exp_len_hours	-3.9623744511604313
average_realtime_carbon_intensity	483.8733316791852