

# 1 Experiment Set Difference: Normal Convolutions (64 filters) v. Separable Convolutions (256 filters)

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

cpu_hours	-0.479803 +/- 0.00193766 (stderr) (p=3.03673e-09, Welch's t-test)
gpu_hours	-0.442035 +/- 0.000807607 (stderr) (p=4.54986e-18, Welch's t-test)
estimated_carbon_impact_kg	-0.0449808 +/- 0.00248104 (stderr) (p=6.5319e-05, Welch's t-test)
total_power	-0.131132 +/- 0.0150904 (stderr) (p=0.000524249, Welch's t-test)
kw_hr_gpu	-0.069553 +/- 0.000209474 (stderr) (p=6.94836e-13, Welch's t-test)
kw_hr_cpu	-0.0134421 +/- 0.00953762 (stderr) (p=0.0921261, Welch's t-test)
exp_len_hours	-0.442409 +/- 0.000808437 (stderr) (p=8.03927e-19, Welch's t-test)
average_realtime_carbon_intensity	-135.915 +/- 13.0767 (stderr) (p=0.000106618, Welch's t-test)

## 1.2 Cumulative Difference (Per Experiment Set)

cpu_hours	-1.763758333333333
gpu_hours	-1.6347326668381137
estimated_carbon_impact_kg	-0.17320806847919618
total_power	-0.48416736645982084
kw_hr_gpu	-0.2567256902697973
kw_hr_cpu	-0.04970935179338038
exp_len_hours	-1.629363463057412
average_realtime_carbon_intensity	-377.01084023668136