

# 1 Experiment Set Difference: Separable Convolutions (32 filters) v. Separable Convolutions (256 filters)

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

cpu_hours	-0.541747 +/- 0.010045 (stderr) (p=2.66226e-08, Welch's t-test)
gpu_hours	-0.52483 +/- 0.00172352 (stderr) (p=2.77722e-13, Welch's t-test)
estimated_carbon_impact_kg	-0.0476374 +/- 0.00247024 (stderr) (p=6.15061e-05, Welch's t-test)
total_power	-0.158493 +/- 0.0149086 (stderr) (p=0.000368943, Welch's t-test)
kw_hr_gpu	-0.0836172 +/- 0.000350162 (stderr) (p=1.84516e-15, Welch's t-test)
kw_hr_cpu	-0.016695 +/- 0.00940966 (stderr) (p=0.0571253, Welch's t-test)
exp_len_hours	-0.498612 +/- 0.00899911 (stderr) (p=6.00162e-08, Welch's t-test)
average_realtime_carbon_intensity	9.73129 +/- 12.6841 (stderr) (p=0.275424, Welch's t-test)

## 1.2 Cumulative Difference (Per Experiment Set)

cpu_hours	-2.073480555555553
gpu_hours	-2.0487065511434936
estimated_carbon_impact_kg	-0.18649087461351782
total_power	-0.6209723568470665
kw_hr_gpu	-0.3270465160311965
kw_hr_cpu	-0.06597396298593415
exp_len_hours	-1.910375138057603
average_realtime_carbon_intensity	351.2184126510115