Results

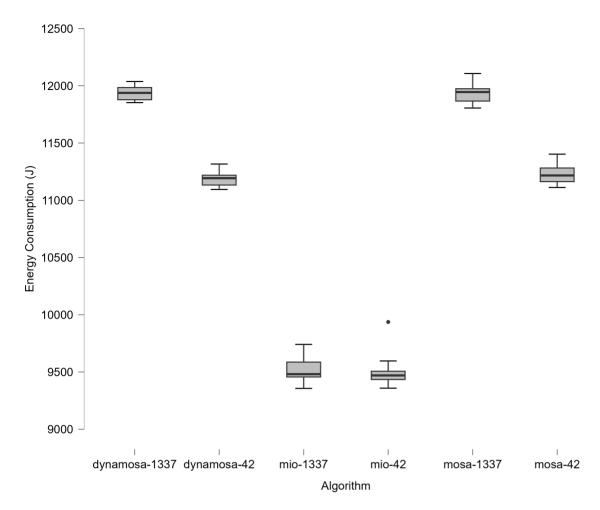
Copy of Descriptive Statistics

Descriptive Statistics

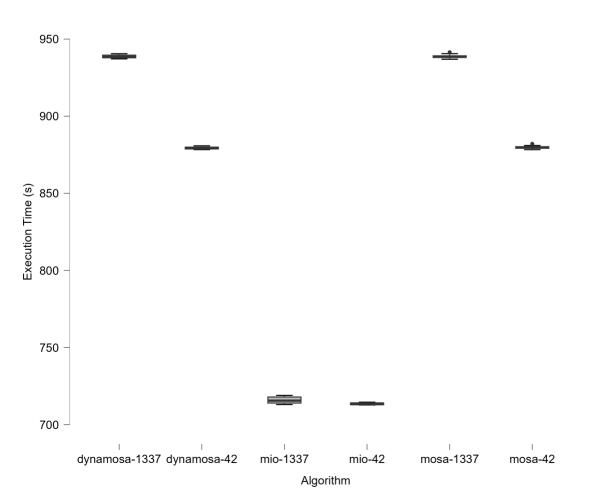
		Valid	Mean	Std. Deviation	Variance	Range	Minimum	Maximum
Energy Consumption (J)	dynamosa- 1337	14	11937.350	65.771	4325.836	184.614	11853.011	12037.625
Energy Consumption (J)	dynamosa- 42	14	11186.656	67.801	4596.932	222.104	11094.595	11316.699
Energy Consumption (J)	mio-1337	14	9522.295	113.908	12975.085	384.453	9356.721	9741.174
Energy Consumption (J)	mio-42	14	9502.096	141.545	20035.043	578.165	9359.007	9937.172
Energy Consumption (J)	mosa- 1337	14	11927.855	79.762	6362.023	301.540	11805.906	12107.446
Energy Consumption (J)	mosa-42	14	11234.014	97.018	9412.439	291.154	11111.766	11402.919
Execution Time (s)	dynamosa- 1337	14	938.705	1.013	1.027	3.333	937.154	940.487
Execution Time (s)	dynamosa- 42	14	879.371	0.757	0.573	2.458	878.336	880.794
Execution Time (s)	mio-1337	14	715.868	2.115	4.473	5.943	713.084	719.027
Execution Time (s)	mio-42	14	713.598	0.689	0.475	1.835	712.785	714.619
Execution Time (s)	mosa- 1337	14	938.741	1.171	1.372	4.548	936.927	941.475
Execution Time (s)	mosa-42	14	879.840	0.982	0.963	3.781	878.313	882.095
Power (W)	dynamosa- 1337	14	12.717	0.062	0.004	0.185	12.642	12.827
Power (W)	dynamosa- 42	14	12.721	0.074	0.005	0.237	12.630	12.867
Power (W)	mio-1337	14	13.302	0.158	0.025	0.527	13.121	13.648
Power (W)	mio-42	14	13.316	0.195	0.038	0.786	13.124	13.910
Power (W)	mosa- 1337	14	12.706	0.079	0.006	0.294	12.601	12.894
Power (W)	mosa-42	14	12.768	0.105	0.011	0.311	12.636	12.948

Boxplots

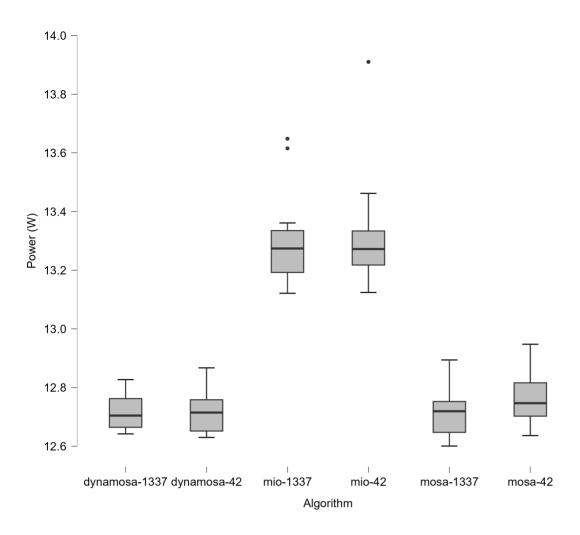
Energy Consumption (J)



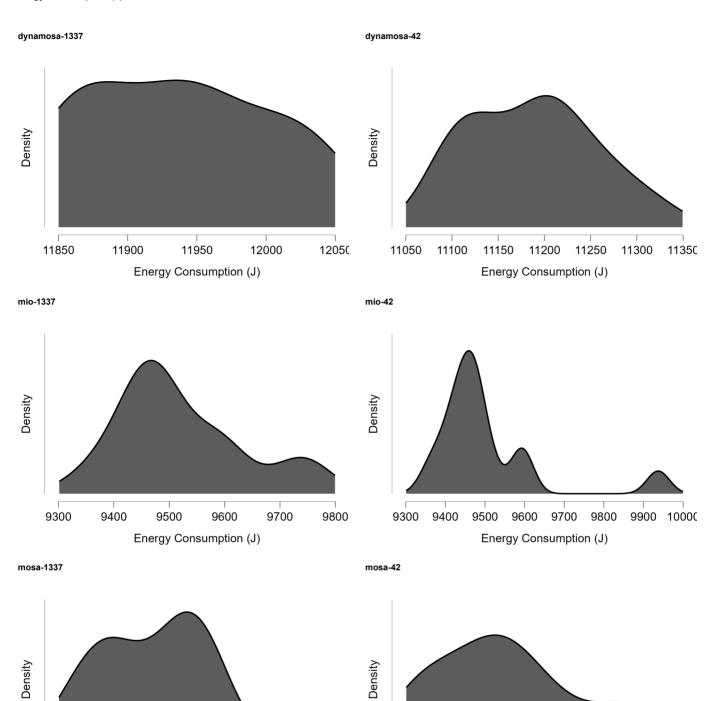
Execution Time (s)







Energy Consumption (J)



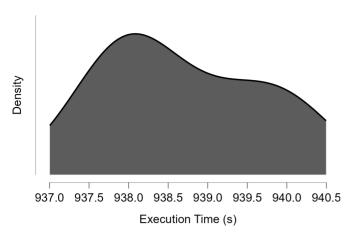
11100 11150 11200 11250 11300 11350 11400 11450

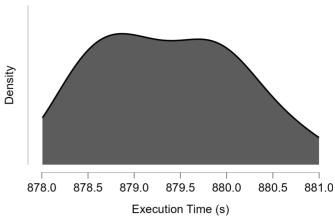
Energy Consumption (J)

11800 11850 11900 11950 12000 12050 12100 12150

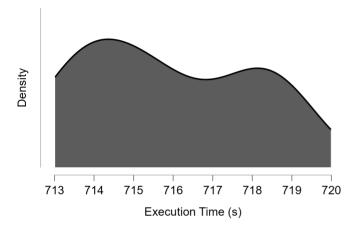
Energy Consumption (J)

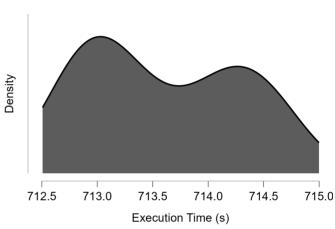




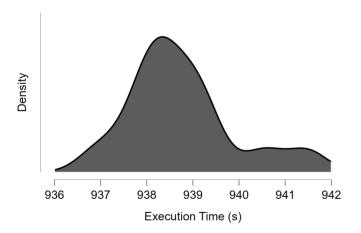


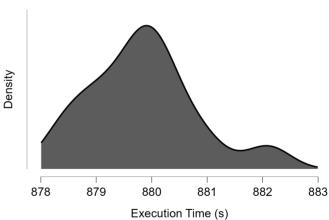
mio-1337 mio-42

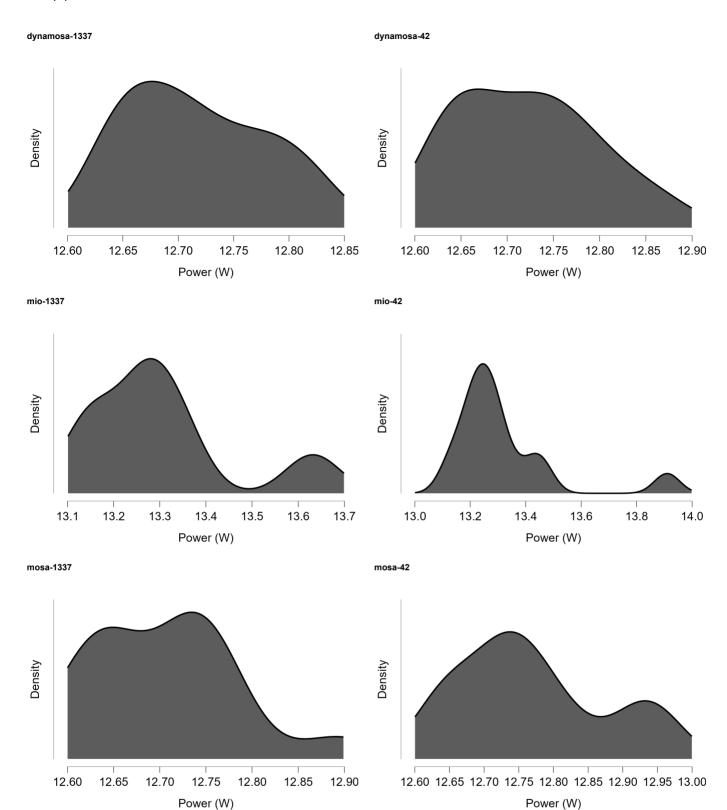




mosa-1337 mosa-42



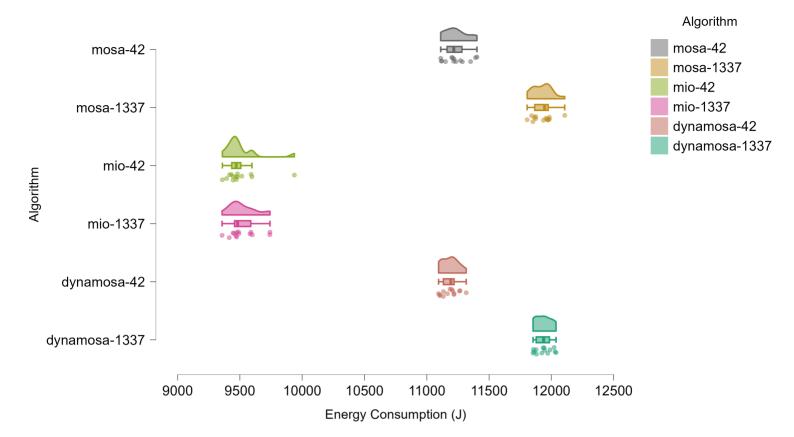




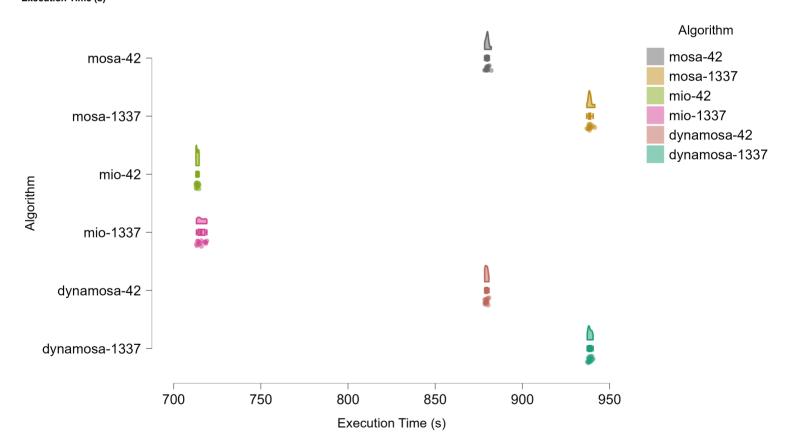
Copy of Raincloud Plots

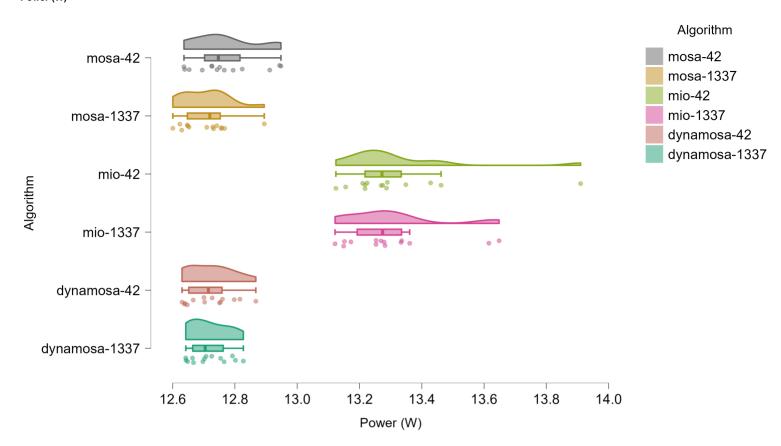
Raincloud Plots

Energy Consumption (J)



Execution Time (s)





Statistics

Energy Consumption (J)

Primary Factor	Ν	Lower Whisker	25th Percentile	Median	75th Percentile	Upper Whisker
dynamosa- 1337	14	11853.011	11878.407	11937.967	11984.607	12037.625
dynamosa-42	14	11094.595	11133.218	11193.146	11218.956	11316.699
mio-1337	14	9356.721	9456.718	9481.232	9586.662	9741.174
mio-42	14	9359.007	9434.372	9470.236	9506.837	9596.608
mosa-1337	14	11805.906	11866.688	11945.622	11974.348	12107.446
mosa-42	14	11111.766	11163.045	11216.925	11282.010	11402.919

Note. N_{Total} = 84.

Execution Time (s)

Primary Factor	N	Lower Whisker	25th Percentile	Median	75th Percentile	Upper Whisker
dynamosa- 1337	14	937.154	937.867	938.447	939.567	940.487
dynamosa-42	14	878.336	878.757	879.298	879.942	880.794
mio-1337	14	713.084	714.049	715.627	717.978	719.027
mio-42	14	712.785	712.947	713.432	714.171	714.619
mosa-1337	14	936.927	938.057	938.475	939.132	940.532
mosa-42	14	878.313	879.220	879.803	880.231	880.986

Note. N_{Total} = 84.

Power (W)

Primary Factor	N	Lower Whisker	25th Percentile	Median	75th Percentile	Upper Whisker
dynamosa- 1337	14	12.642	12.665	12.705	12.762	12.827
dynamosa-42	14	12.630	12.652	12.715	12.758	12.867
mio-1337	14	13.121	13.192	13.274	13.335	13.361
mio-42	14	13.124	13.218	13.272	13.334	13.462
mosa-1337	14	12.601	12.647	12.719	12.753	12.894
mosa-42	14	12.636	12.703	12.747	12.816	12.948

Note. N_{Total} = 84.

Cases	Sum of Squares	df	Mean Square	F	р
Algorithm	8.648×10 ⁺⁷	5	1.730×10 ⁺⁷	1798.326	< .001
Residuals	750195.658	78	9617.893		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Algorithm

		Mean Difference	SE	df	t	P _{tukey}
(dynamosa- 1337)	(dynamosa- 42)	750.694	37.067	78	20.252	< .001***
	(mio-1337)	2415.055	37.067	78	65.153	< .001***
	(mio-42)	2435.254	37.067	78	65.698	< .001***
	(mosa- 1337)	9.495	37.067	78	0.256	1.000
	(mosa-42)	703.336	37.067	78	18.975	< .001***
(dynamosa- 42)	(mio-1337)	1664.361	37.067	78	44.901	< .001***
	(mio-42)	1684.560	37.067	78	45.446	< .001***
	(mosa- 1337)	-741.199	37.067	78	-19.996	< .001***
	(mosa-42)	-47.358	37.067	78	-1.278	0.796
(mio-1337)	(mio-42)	20.199	37.067	78	0.545	0.994
	(mosa- 1337)	-2405.560	37.067	78	-64.897	< .001***
	(mosa-42)	-1711.719	37.067	78	-46.179	< .001***
(mio-42)	(mosa- 1337)	-2425.759	37.067	78	-65.442	< .001***
	(mosa-42)	-1731.918	37.067	78	-46.724	< .001***
(mosa- 1337)	(mosa-42)	693.841	37.067	78	18.718	< .001***

*** p < .001

Note. P-value adjusted for comparing a family of 6 estimates.

Letter-Based Grouping - Algorithm

Algorithm	Letter
dynamosa-1337	С
dynamosa-42	b
mio-1337	а
mio-42	а
mosa-1337	С
mosa-42	b

Note. If two or more means share the same grouping symbol, then we cannot show them to be different, but we also did not show them to be the same.

ANOVA

ANOVA - Execution Time (s)

Cases	Sum of Squares	df	Mean Square	F	р
Algorithm	754626.841	5	150925.368	101945.825	< .001
Residuals	115.475	78	1.480		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Algorithm

		Mean Difference	SE	df	t	p _{tukey}
(dynamosa- 1337)	(dynamosa- 42)	59.333	0.460	78	129.018	< .001***
	(mio-1337)	222.836	0.460	78	484.550	< .001***
	(mio-42)	225.106	0.460	78	489.486	< .001***
	(mosa- 1337)	-0.036	0.460	78	-0.078	1.000
	(mosa-42)	58.865	0.460	78	128.000	< .001***
(dynamosa- 42)	(mio-1337)	163.503	0.460	78	355.532	< .001***
	(mio-42)	165.773	0.460	78	360.468	< .001***
	(mosa- 1337)	-59.369	0.460	78	-129.096	< .001***
	(mosa-42)	-0.468	0.460	78	-1.018	0.911
(mio-1337)	(mio-42)	2.270	0.460	78	4.936	< .001***
	(mosa- 1337)	-222.872	0.460	78	-484.628	< .001***
	(mosa-42)	-163.971	0.460	78	-356.550	< .001***
(mio-42)	(mosa- 1337)	-225.142	0.460	78	-489.564	< .001***
	(mosa-42)	-166.241	0.460	78	-361.486	< .001***
(mosa- 1337)	(mosa-42)	58.901	0.460	78	128.078	< .001***

^{***} p < .001

Note. P-value adjusted for comparing a family of 6 estimates.

Letter-Based Grouping - Algorithm

Algorithm	Letter
dimenses 1227	d
dynamosa-1337	-
dynamosa-42 mio-1337	С
	b
mio-42	a
mosa-1337	u u
mosa-42	С

Note. If two or more means share the same grouping symbol, then we cannot show them to be different, but we also did not show them to be the same.

ANOVA

ANOVA - Power (W)

Cases	Sum of Squares	df	Mean Square	F	р
Algorithm	6.327	5	1.265	84.581	< .001
Residuals	1.167	78	0.015		

Note. Type III Sum of Squares

Post Hoc Tests

Standard (HSD)

Post Hoc Comparisons - Algorithm

		Mean Difference	SE	df	t	P _{tukey}
(dynamosa- 1337)	(dynamosa- 42)	-0.004	0.046	78	-0.095	1.000
	(mio-1337)	-0.585	0.046	78	-12.654	< .001***
	(mio-42)	-0.599	0.046	78	-12.955	< .001***
	(mosa- 1337)	0.011	0.046	78	0.229	1.000
	(mosa-42)	-0.051	0.046	78	-1.112	0.875
(dynamosa- 42)	(mio-1337)	-0.581	0.046	78	-12.559	< .001***
·	(mio-42)	-0.595	0.046	78	-12.861	< .001***
	(mosa- 1337)	0.015	0.046	78	0.324	1.000
	(mosa-42)	-0.047	0.046	78	-1.018	0.911
(mio-1337)	(mio-42)	-0.014	0.046	78	-0.301	1.000
	(mosa- 1337)	0.596	0.046	78	12.883	< .001***
	(mosa-42)	0.534	0.046	78	11.542	< .001***
(mio-42)	(mosa- 1337)	0.610	0.046	78	13.185	< .001***
	(mosa-42)	0.547	0.046	78	11.843	< .001***
(mosa- 1337)	(mosa-42)	-0.062	0.046	78	-1.342	0.761

^{***} p < .001

Note. P-value adjusted for comparing a family of 6 estimates.

Letter-Based Grouping - Algorithm

Algorithm	Letter	
dynamosa-1337	а	
dynamosa-42	а	
mio-1337	b	
mio-42	b	
mosa-1337	а	
mosa-42	а	

Note. If two or more means share the same grouping symbol, then we cannot show them to be different, but we also did not show them to be the same.