	${ m SCI~Score~(gCO_2eq/scenario)}$				Duration	Power	Success	Effect	Bootstrap CI	Original	Holm	Achieved	
Configuration	Mean	\mathbf{Std}	Min	Max	Median	(sec)	(\mathbf{W})	Rate (%)	Size	(95%)	p-value	p-value	Power
P1_E1 Baseline	0.457	0.031	0.442	0.546	0.447	5169	41.81	99.74	_	_	_	_	_
$P2_E1_parallel_4_lookahead_default$	0.457	0.031	0.441	0.544	0.448	5172	41.73	99.74	0.00	-0.86 - 0.86	0.970	1.0	0.24
$P2_E1_parallel_16_lookahead_default$	0.433	0.036	0.394	0.504	0.445	4885	42.03	99.87	0.71	-0.12 - 1.68	0.385	1.0	0.24
$P2_E1_parallel_default_lookahead_12$	0.445	0.017	0.399	0.460	0.449	5022	41.98	99.87	0.48	-1.11 - 1.01	0.678	1.0	0.24
$P2_E1_parallel_default_lookahead_48$	0.440	0.032	0.399	0.498	0.449	4959	42.03	100.0	0.56	-0.40 - 1.37	0.970	1.0	0.24
P2_E2_reduced	0.448	0.023	0.398	0.496	0.448	5056	41.94	100.0	0.34	-0.67 - 1.00	0.970	1.0	0.52
P2_E2_minimal	0.427	0.025	0.395	0.449	0.443	4806	42.19	100.0	1.06	0.59 - 1.96	0.045	1.0	0.52
P2_E3_extended_expiration	0.430	0.024	0.390	0.450	0.441	4902	40.96	99.87	0.99	0.59 - 1.71	0.021	0.63	0.69
P2_E3_larger_cache	0.438	0.025	0.388	0.459	0.447	5014	40.67	100.0	0.67	-0.32 - 1.25	0.678	1.0	0.69
P2_E4_no_compression	0.438	0.027	0.390	0.487	0.443	5004	40.76	99.87	0.68	-0.11 - 1.39	0.054	1.0	0.48
P2_E5_MemoryConservation	0.322	0.024	0.304	0.359	0.307	3670	41.19	100.0	4.79	3.83 - 11.70	0.00018	0.010	1.0
${\bf P2_E5_DynamicAdaptation}$	0.317	0.021	0.306	0.357	0.307	3604	41.33	100.0	5.25	4.03 - 48.20	0.00018	0.010	1.0

3663

3646

3866

41.27

41.17

41.26

99.74

100.0

100.0

4.75

4.91

4.10

3.80 - 11.36

3.92 - 12.02

3.52 - 7.55

0.00018

0.00018

0.00018

0.010

0.010

0.010

1.0

1.0

1.0

P2_E5_ThreadEfficient

P2_E5_ReducedFootprint

P3_E1_Carbon-Optimized

0.025

0.024

0.026

0.322

0.320

0.340

0.303

0.303

0.307

0.361

0.355

0.362

0.306

0.306

0.359

Configuration analysis with performance metrics and statistical validation