Program \ Level	-O0	-O1	-O2	-O3	-Ofast	-Os
MMC	34.361	24.552	24.402	23.649	24.265	25.740
Grades	40.038	32.378	31.239	31.226	31.060	31.091
Bzip	36.755	20.408	20.396	20.361	20.399	22.115
Bzip2	36.755	20.493	20.366	20.477	20.427	21.773
Oggenc	46.068	19.958	17.648	17.256	16.359	20.177
Pbrt	47.008	12.614	12.761	12.413	12.175	19.547

Table 1: Execution times of C/C++ programs in seconds by optimization level.

Program \ Level	-O0	-O1	-O2	-O3	-Ofast	-Os
MMC	354.934	237.568	239.599	240.192	238.445	227.809
Grades	352.228	257.912	246.786	248.958	245.701	249.664
Bzip	406.914	214.438	216.539	215.882	213.496	234.162
Bzip2	402.516	212.324	212.327	215.639	213.947	229.156
Oggenc	523.992	216.264	195.844	190.472	180.038	213.51
Pbrt	556.222	141.461	142.815	136.84	134.378	209.164

Table 2: Selected C/C++ programs and their energy consumption (CPU and memory) in Joules by optimization level.

Program \ Level	-O0	-O1	-O2	-O3	-Ofast	-Os
Matmul	22.247	21.396	8.420	8.429	8.434	21.347
PGo	35.803	11.117	5.066	4.961	4.853	16.567
Sudoku	36.586	24.557	14.951	13.156	13.162	26.169

Table 3: Execution times of Go programs in seconds by optimization level.

Program \ Level	-O0	-O1	-O2	-O3	-Ofast	-Os
Matmul	290.775	246.092	105.301	105.514	105.541	231.753
PGo	791.741	237.263	112.529	108.662	106.343	362.635
Sudoku	414.359	265.79	164.581	145.177	146.065	286.753

Table 4: Selected Go programs and their energy consumption (CPU and memory) in Joules by optimization level.

Program \ Level	-O0	-O1	-O2	-O3	-Ofast	-Os
Matmulobjc	3.882	3.882	3.882	3.880	3.881	3.878
Miscellany	9.346	9.341	9.347	9.347	9.351	9.350
Sorting	35.643	35.652	35.585	35.643	35.624	35.596

Table 5: Execution times of Objective-C programs in seconds by optimization level.

Program \ Level	-O0	-O1	-O2	-O3	-Ofast	-Os
Matmulobjc	121.262	47.532	47.053	30.714	30.867	48.664
Miscellany	248.844	129.711	95.549	107.859	107.713	129.914
Sorting	456.098	435.695	435.908	439.173	433.084	438.992

Table 6: Selected Objective-C programs and their energy consumption (CPU and memory) in Joules by optimization level.