Time-to-Solution [in s] (FJtrad) and Relative Performance Gain (others)

	runtime				
		Micro Kernels (all with [1|12])			
Kernel 1 [C]	0.001	-0.594	-0.961	-0.961	-0.964
Kernel 2 [C]	0.002	-0.580	-0.985	-0.985	-0.879
Kernel 3 [F]	0.010	-0.196	-0.194	-0.196	-0.958
Kernel 4 [F]	0.002	-0.015	-0.019	-0.016	-0.797
Kernel 5 [F]	0.001	-0.406	-0.407	-0.406	-0.668
Kernel 6 [F]	0.003	0.003	0.005	0.005	-0.506
Kernel 7 [F]	0.001	-0.028	0.002	-0.003	-0.634
Kernel 8 [F]	0.009	0.056	0.059	0.076	1.270
Kernel 9 [F]	0.009	-0.003	-0.002	0.011	0.798
Kernel 10 [F]	0.001	-0.027	-0.016	-0.022	-0.833
Kernel 11 [F]	0.009	-0.005	-0.008	-0.005	1.350
Kernel 12 [F]	0.001	-0.043	-0.059	-0.035	-0.688
Kernel 13 [F]	0.009	0.007	-0.005	-0.008	run error
Kernel 14 [F]	0.009	0.000	-0.007	-0.004	run error
Kernel 15 [F]	0.008	0.004	-0.001	0.005	run error
Kernel 16 [C]	0.001	-0.066	-0.634	-0.638	-0.581
Kernel 17 [F]	0.001	-0.044	-0.034	-0.041	run error
Kernel 18 [F]	0.001	0.127	0.120	0.129	run error
Kernel 19 [F]	0.009	0.009	0.012	0.010	run error
Kernel 20 [F]	0.009	-0.007	-0.007	-0.008	-0.416
Kernel 21 [C]	0.001	-0.682	-0.618	-0.637	-0.571
Kernel 22 [C]	0.004	compile error	compile error	compile error	0.269
		PolyBench (all with [1|1])			
correlation [C]	10.743	1.152	0.965	208.559	0.987
covariance [C]	10.735	1.150	0.984	300.513	0.990
gemm [C]	1.629	2.857	0.389	0.606	0.991
gemver [C]	0.092	19.289	1.169	7.152	1.408
gesummv [C]	0.025	0.008	0.004	4.658	-0.020
symm [C]	12.491	0.913	-0.062	1.931	-0.053
syr2k [C]	6.424	0.556	0.315	0.576	0.378
syrk [C]	3.011	0.490	0.169	0.231	0.377
trmm [C]	6.267	0.906	1.065	2711.882	0.977
2mm [C]	18.272	2.800	0.936	15.296	1.264
3mm [C]	30.365	2.856	0.966	17.264	1.197
atax [C]	0.047	13.141	1.480	2.847	1.498
bicg [C]	0.057	-0.073	-0.071	2.046	0.020
doitgen [C]	5.819	12.307	1.499	1303.331	1.587
mvt [C]	0.085	25.995	1.163	250130.507	1.485
cholesky [C]	0.878	-0.862	-0.854	-0.192	-0.852
durbin [C]	0.001	-0.544	-0.579	-0.577	-0.781
gramschmidt [C]	12.863	0.024	0.077	0.522	0.383
lu [C]	28.580	1.246	1.389	26.973	1.345
ludcmp [C]	7.142	-0.025	-0.292	-0.534	-0.375
trisolv [C]	0.022	1.387	1.437	1.819	1.450
deriche [C]	0.753	-0.096	-0.014	-0.145	-0.043
floyd-warshall [C]	0.364	1.515	1.537	-0.741	1.209
nussinov [C]	22.950	0.941	1.511	1.726	0.896
adi [C]	48.401	0.572	0.078	0.935	0.057
fdtd-2d [C]	3.393	3.578	0.818	-0.300	0.669
heat-3d [C]	8.549	3.806	1.122	-0.421	0.362
jacobi-1d [C]	0.004	4.173	1.648	-0.541	1.132
jacobi-2d [C]	5.163	2.750	1.188	-0.486	0.543
seidel-2d [C]	54.664	1.732	1.683	1.570	0.476
		Ranking			
HPL [C]	21.506 [48|1]	0.001 [48|1]	0.043 [48|1]	0.046 [48|1]	-0.023 [48|1]
HPCG [C++]	0.528 [48|1]	0.031 [48|1]	-0.116 [48|1]	-0.191 [48|1]	-0.518 [48|1]
Babel [C++]	1.676 [1|36]	-0.004 [1|36]	0.377 [1|24]	0.296 [1|24]	0.512 [1|32]
DLproxy [C]	0.048 [1|48]	-0.071 [1|48]	0.016 [1|48]	0.019 [1|48]	0.155 [1|48]
		ECP proxy apps			
AMG [C]	5.042 [4|12]	0.058 [8|6]	0.206 [32|1]	-0.304 [32|1]	-0.524 [4|12]
CoMD [C]	4.460 [48|1]	0.086 [48|1]	0.124 [48|1]	0.122 [48|1]	0.132 [48|1]
Laghos	45.436 [48|1]	run error	0.586 [48|1]	0.611 [48|1]	0.399 [48|1]
MACSio [C,C++]	24.343 [48|1]	-0.067 [48|1]	0.184 [48|1]	0.172 [48|1]	0.043 [48|1]
miniAMR [C]	18.857 [48|1]	-0.045 [48|1]	0.016 [48|1]	0.024 [48|1]	0.113 [48|1]
miniFE [C++]	0.373 [4|12]	-0.097 [4|12]	-0.374 [4|12]	-0.459 [4|12]	-0.718 [4|12]
miniTRI [C++]	29.182 [32|1]	0.217 [32|1]	3.607 [1|48]	3.539 [1|48]	3.329 [1|48]
Nekbone [F]	1.656 [48|1]	run error	0.027 [48|1]	0.026 [48|1]	-0.304 [48|1]
SW4lite [F,C++]	0.853 [48|1]	0.011 [48|1]	-0.022 [48|1]	0.003 [48|1]	-0.484 [48|1]
SWFFT [F,C]	1.194 [32|1]	0.035 [32|1]	0.055 [32|1]	0.045 [32|1]	0.063 [32|1]
XSBench [C]	1.649 [1|48]	0.323 [1|48]	0.754 [1|48]	5.865 [1|48]	-0.029 [1|48]
		RIKEN miniapps			
FFB [F,C,C++]	29.877 [4|1]	compile error	compile error	compile error	2.457 [48|1]
FFVC [C++,F]	11.558 [1|36]	-0.026 [1|36]	-0.260 [48|1]	-0.254 [48|1]	-0.926 [48|1]
MODYLAS [F]	29.262 [16|3]	0.001 [16|3]	-0.134 [16|3]	-0.139 [16|3]	-0.768 [16|3]
mVMC [C,F]	15.026 [24|2]	-0.002 [24|2]	-0.081 [48|1]	0.173 [48|1]	-0.334 [48|1]
NICAM [F]	7.645 [10|4]	-0.003 [10|4]	-0.001 [10|4]	0.014 [10|4]	-0.768 [10|4]
NTChem [F]	9.440 [12|4]	-0.001 [12|4]	0.061 [12|4]	0.061 [12|4]	-0.418 [24|1]
QCD [F]	8.048 [24|2]	0.002 [24|2]	0.003 [24|2]	0.003 [24|2]	0.036 [24|2]
		SPEC CPU int (all with [1|1])			
perlbench [C]	95.842	-0.497	-0.458	-0.459	0.249
gcc [C]	144.654	-0.656	-0.662	-0.660	0.237
mcf [C]	107.932	-0.546	-0.554	-0.555	0.266
omnetpp [C++]	153.212	0.127	0.038	0.021	0.025
xalancbmk [C++]	227.200	0.856	0.860	1.054	0.852
xs [C]	66.105	-0.840	-0.844	-0.844	0.145
deepsjeng [C++]	174.909	0.292	0.225	-1.000	0.338
leela [C++]	225.918	0.293	0.255	0.286	0.388
exchanges [F]	137.069	0.000	-0.010	-0.009	0.778
xz [C]	77.578	-0.638	-0.656	-0.647	0.036
		SPEC CPU float			
bwaves [F]	1.690 [1|32]	-0.004 [1|32]	-0.009 [1|32]	-0.011 [1|32]	-0.774 [1|32]
cactuBSSN [C++,C,F]	4.956 [1|48]	0.249 [1|48]	-0.031 [1|48]	0.011 [1|48]	-0.426 [1|36]
lbm [C]	11.397 [1|48]	0.109 [1|48]	-0.118 [1|48]	-0.123 [1|48]	-0.446 [1|48]
wrf [F,C]	5.482 [1|32]	0.002 [1|32]	0.007 [1|32]	0.002 [1|32]	-0.864 [1|32]
cams [F,C]	11.925 [1|48]	0.006 [1|48]	0.012 [1|48]	0.007 [1|48]	-0.322 [1|32]
pops [F,C]	15.115 [1|32]	0.004 [1|32]	0.002 [1|32]	0.001 [1|32]	invalid output
imagick [C]	18.778 [1|8]	5.651 [1|8]	2.114 [1|8]	1.265 [1|8]	1.423 [1|8]
nab [C]	17.824 [1|48]	0.207 [1|48]	0.082 [1|48]	0.155 [1|48]	-0.013 [1|48]
fotonik [F]	8.893 [1|48]	0.002 [1|48]	0.001 [1|32]	-0.004 [1|32]	-0.521 [1|32]
roms [F]	8.134 [1|48]	-0.013 [1|48]	-0.004 [1|48]	-0.003 [1|48]	-0.779 [1|48]
		SPEC OMP			
md [F]	109.786 [1|48]	-0.008 [1|48]	-0.008 [1|48]	-0.008 [1|48]	-0.870 [1|48]
bwaves [F]	0.541 [1|48]	-0.045 [1|48]	-0.045 [1|48]	-0.056 [1|48]	-0.824 [1|32]
nab [C]	25.995 [1|48]	0.185 [1|48]	-0.011 [1|48]	0.055 [1|48]	-0.150 [1|36]
bt [F]	18.427 [1|48]	-0.002 [1|48]	-0.001 [1|48]	-0.001 [1|48]	0.168 [1|36]
botsalgn [C]	0.686 [1|48]	-0.043 [1|48]	0.009 [1|48]	0.007 [1|48]	-0.223 [1|48]
botsspar [C]	0.492 [1|48]	0.926 [1|16]	1.244 [1|32]	2.134 [1|32]	0.525 [1|12]
ilbdc [F]	15.715 [1|48]	-0.001 [1|48]	-0.001 [1|48]	-0.002 [1|48]	-0.972 [1|48]
fma [F]	11.982 [1|48]	-0.008 [1|48]	0.016 [1|48]	0.011 [1|48]	-0.091 [1|36]
swim [F]	1.367 [1|32]	-0.015 [1|32]	-0.016 [1|32]	-0.015 [1|32]	-0.559 [1|24]
imagick [C]	4.573 [1|48]	0.911 [1|48]	-0.253 [1|48]	-0.379 [1|48]	-0.232 [1|48]
mgrid [F]	0.220 [1|32]	-0.102 [1|32]	-0.108 [1|32]	-0.105 [1|32]	-0.308 [1|32]
applu [F]	3.196 [1|32]	-0.008 [1|32]	-0.012 [1|32]	-0.010 [1|32]	0.055 [1|32]
smithwa [C]	3.082 [1|48]	2.361 [1|48]	1.367 [1|48]	1.417 [1|48]	invalid output
kdtree [C++]	166.330 [1|48]	10.355 [1|48]	10.691 [1|48]	10.704 [1|48]	15.470 [1|48]
	FJtrad	FJclang	LLVM	LLVM+Polly	GNU

Compiler Variant

+1.0

Relative Performance Gain

-1.0