Perf. Portability of Lid-Cavity Benchmark in Firedrake/PyOP2 MUM:cpu sandybridge PSX:gpu v100 600 MUM:cpu broadwell SUD:cpu sandybridge MUM:cpu skylake SUD:gpu k40 PSX:cpu sandybridge SUD:cpu broadwell PSX:gpu k40 SUD:gpu p100 500 PSX:cpu broadwell SUD:cpu skylake PSX:gpu p100 SUD:gpu v100 PSX:cpu skylake 400 Execution Time (s) 300 200 100 0 200000 300000 100000 400000 500000 600000 0 Mesh elements 2.0 Perf. Portability (PP) PP (SuperLU DIST vs PaStiX) 1.5 1.0 200000 0 100000 300000 400000 500000 600000 Mesh elements