Perf. Portability of Lid-Cavity Benchmark in Firedrake/PyOP2 MUM:cpu haswell **−**□− PSX:cpu broadwell → SUD:gpu k40 SUD:gpu v100 PSX:gpu p100 ■ SUD:cpu broadwell MUM:cpu_skylake PSX:cpu skylake - SUD:gpu p100 500 PSX:cpu haswell PSX:gpu_v100 SUD:cpu_skylake PSX:gpu_k40 SUD:cpu_haswell SUD:gpu_v100 400 Execution Time (s) 300 200 100 0 400000 100000 200000 300000 500000 600000 0 Mesh elements 2.0 PP (SuperLU_DIST vs PaStiX) Perf. Portability (PP) 1.8 1.6 1.4 1.2 1.0 0 100000 200000 300000 400000 500000 600000 Mesh elements