As a function of the # of test statistics As a function of the # of permutation statistics Each point represents a sample of 500 P-values Each point represents a sample of 500 P-values # test stats 0 (no filter) 0.03 0.03 # perms 500 1000 Mean <sub>0.02</sub> 2000 16 3000 32 4000 64 5000 128 256 512 0.01 0.01 128 500 1000 2000 3000 4000 5000 Number of test statistics used with PhiMr Number of permutations (0 corresponds to testing without PhiMr filter)