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 0.20 0.20 # test stats 0 (no filter) # perms 500 0.15 1000 Mean P. 0.10 2000 16 Mean 0.10 3000 32 4000 64 + 5000 128 256 + 512 0.05 0.05 128 500 1000 2000 3000 4000 5000 Number of test statistics used with PhiMr Number of permutations (0 corresponds to testing without PhiMr filter)