Elapsed Time for Various GMP Operations on Ryzen 3970X 32-Core (dim=100000000, prec=512) 16 15.47 14 13.41 12.76 12 10.33 Elapsed Time ( 9.63 9.59 9.51 7.64 7.16 7.09 2 0.38 0.39 0.33 0.33 0.33 0.32 0.32 0 orig 12\_0\_mpblas\_mkII 12\_0\_mpblas\_mkIISR mpblas\_mkll orig 12\_2\_mpblas\_mkII 13\_0\_mpblas\_openmp\_mkII openmp\_mkIISR 10\_naive openmp mklISR 2\_mpblas\_mkIISR O\_mpblas\_openmp\_orig \_0\_mpblas\_ 2 mpblas mpblas 1\_mpblas 12 13\_0\_mpblas\_ mpblas 12\_

(s)

**Operation** 

13\_1