**Elapsed Time for Various GMP Operations on Ryzen 3970X 32-Core (dim=500,000,000, prec=512)** 80 -74.89 naive C orig(gmpxx.h) 70 mkll(gmpxx mkll.h) mkIISR(gmpxx mkII.h) **S** 60 55.03 51.01 48.10 47.72 46.46 42.22 35.83 35.03<sub>33.19</sub> **30** · 10 1.56 1.83 1.62 1.59 1.58 1.56 1.56 22 rapios and sealing 2. Chaples with 2. Androsoiro 20 mallos mill **Operation**