PAPI SDE Recorder: Residual per Iteration (nd24k: 72000-by-72000 with 28715634 nonzeros) 10<sup>8</sup> **PBICG PBICGSTAB** PCG 10<sup>6</sup> PCGS PGMRES 10<sup>4</sup> **PTFQMR** 10<sup>2</sup> Residual 10<sup>0</sup> Runtime of Solvers: 147.3716 sec 10<sup>-2</sup> 330.7103 sec 196.2177 sec 241.7744 sec 10<sup>-4</sup> 168.2107 sec 342,2926 sec 10<sup>-6</sup> 150.4123 sec 342.1692 sec 10<sup>-8</sup> 0 100 200 300 400 500 600 700 800 900 1000 Iteration