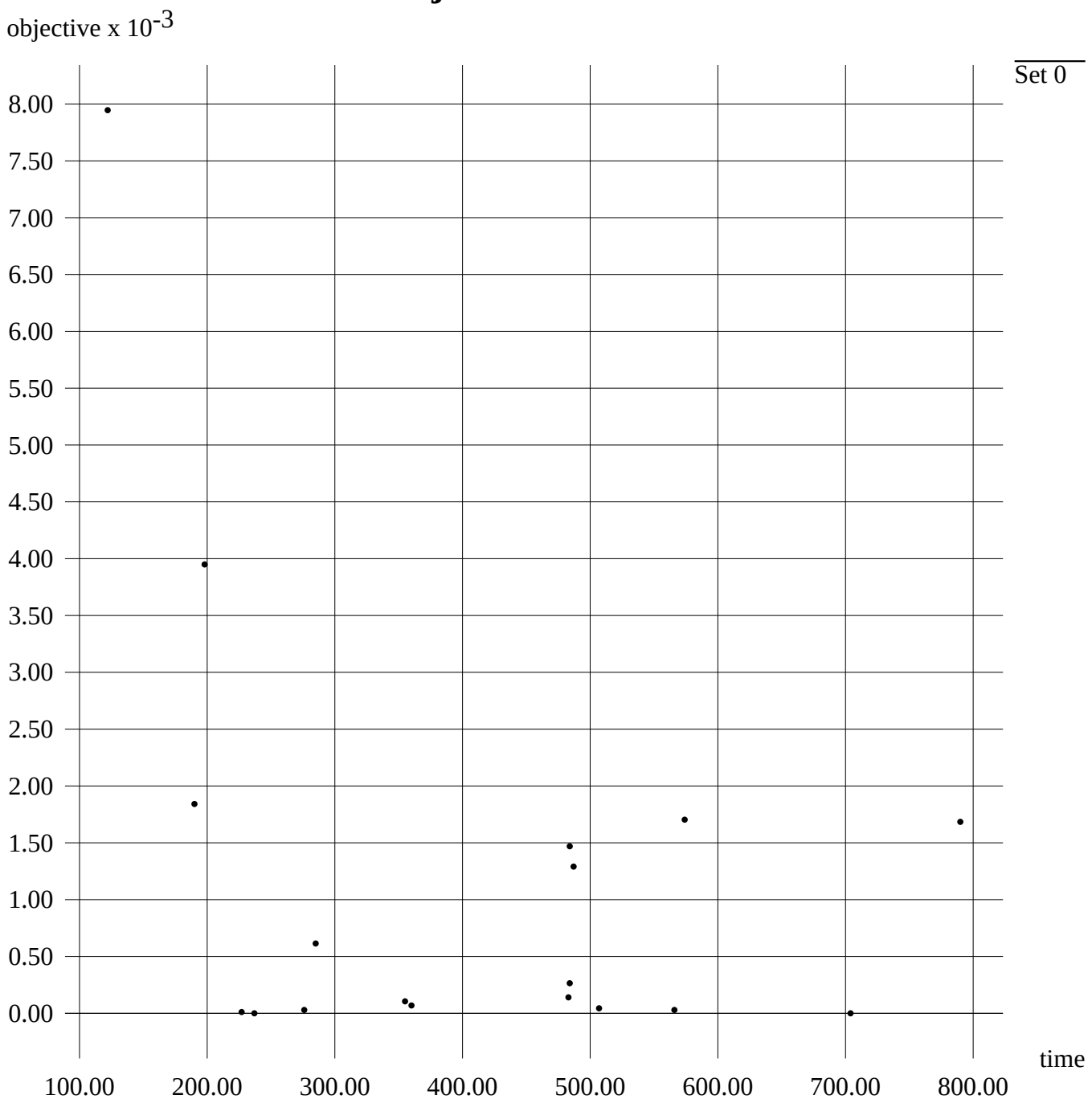objective < 1e-2