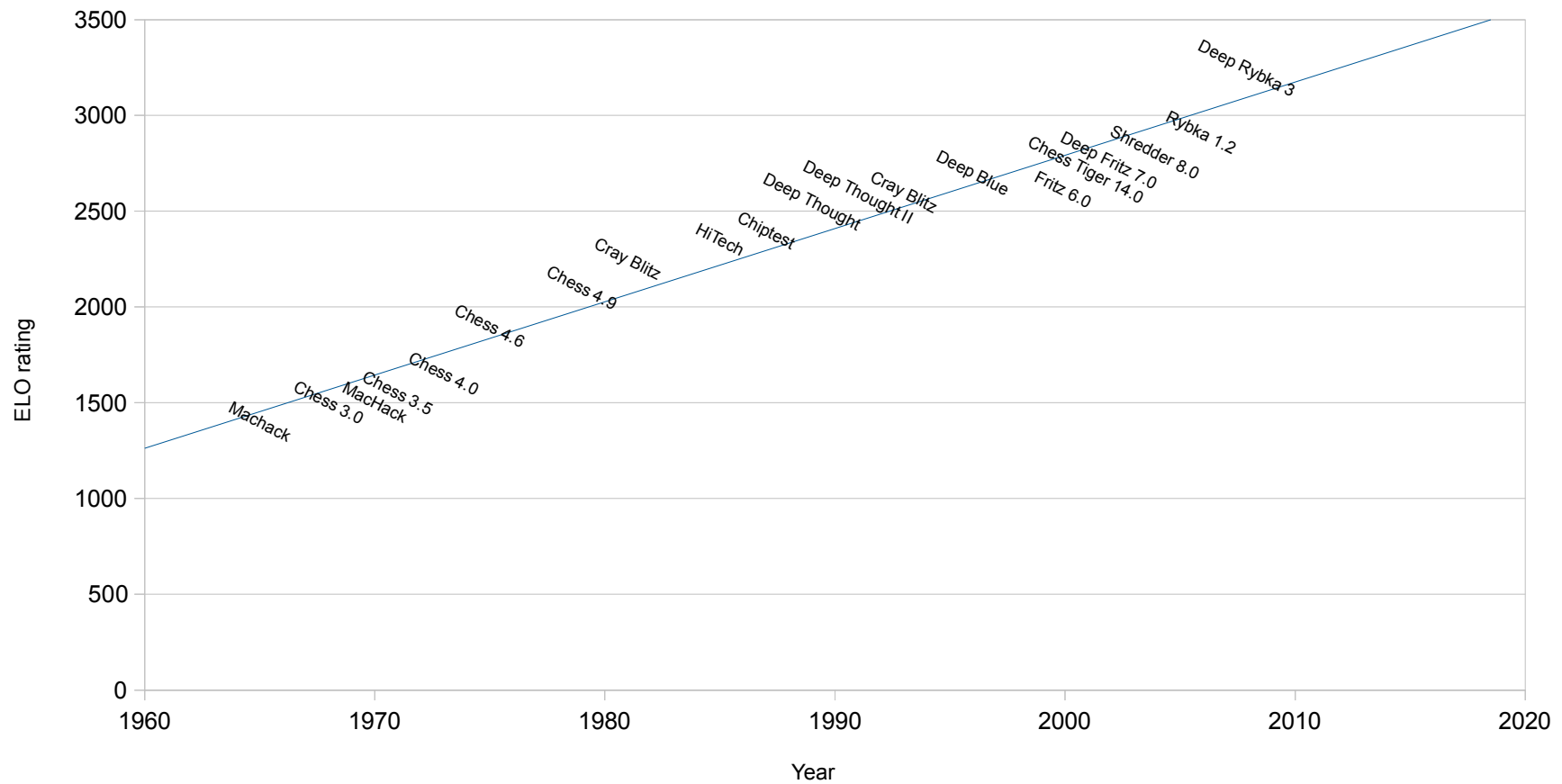# Historical chess engines' estimated ELO ratings

By Luke Muehlhauser, updated 10-9-2011

Page 71 of Hans Moravec's *Robot* (1998) is my source for Year and ELO data on MacHack (1970), Chess 2.5, Chess 4.0, Chess 4.9, Cray Blitz, HiTech, Chiptest, Deep Thought, Deep Thought II, and Deep Blue. *Computer Museum Report, Vol. 20* is my source for Year and ELO data on Machack (1965), Chess 3.0, and Chess 4.6. The Wikipedia entry for "Swedish Chess Computer Association" (accessed 10-09-2011) is my source for Fritz 6.0, Chess Tiger 14.0, Deep Fritz 7.0, Shredder 8.0, Rybka 1.2, and Deep Rybka 3. I excluded entries on these lists from before 1965 and after 2008. I also removed a few entries to avoid clutter; these entries were not outliers.