

its assets.” This was actually a private limited partnership, specializing in convertible hedging, which I managed. A notable competitor at the time (see Institutional Investor, 1998) was future Nobel prize winner Harry Markowitz. After 20 months, our record as cited was a gain of 39.9% versus a gain for the Dow Jones Industrial Average of +4.2%. Markowitz dropped out after a couple of years, but we liked our results and persisted. What would the future bring?

It is now May, 1998, twenty eight and a half years since the investment program began. The partnership and its continuations have compounded at approximately 20% annually with a standard deviation of about 6% and approximately zero correlation with the market (“market neutral”). Ten thousand dollars would, tax exempt, now be worth 18 million dollars. To help persuade you that this may not be luck, I estimate that during this period I have made about \$80 billion worth of purchases and sales (“action”, in casino language) for my investors. This breaks down into something like one and a quarter million individual “bets” averaging about \$65,000 each, with on average hundreds of “positions” in place at any one time. Over all, it would seem to be a moderately “long run” with a high probability that the excess performance is more than chance.

10 Conclusion

Those individuals or institutions who are long term compounders should consider the possibility of using the Kelly criterion to asymptotically maximize the expected compound growth rate of their wealth. Investors with less tolerance for intermediate term risk may prefer to use a lesser function. Long term compounders ought to avoid using a greater fraction (“overbetting”). Therefore, to the extent that future probabilities are uncertain, long term compounders should further limit their investment fraction enough to prevent a significant risk of overbetting.

Acknowledgements. I thank Dr. Jerry Baesel, Professor Sid Browne, Professor Peter Griffin, Dr. Art Quaife, and Don Schlesinger for comments and corrections and to Richard Reid for posting this paper on his website. I am also indebted to Dr. Art Quaife for allowing me to use his analysis in the case study.

This paper has been revised and expanded since its presentation at the 10th International Conference on Gambling and Risk Taking.