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Multiples Used to Estimate Corporate Value

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Abstract

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addressed. The study reported here explicitly examined the overall performance of a variety of multiples used for valuation. The purpose was to examine the biases and valuation accuracy of multiples based on earnings, sales, or book value of assets for several categories of companies.

For the aggregate sample, we found that all multiples yield estimates that are somewhat negatively biased. That is, the mean valuation errors are slightly negative, whereas the median valuation errors are roughly zero. The ratio of market value to book value of assets yields the most accurate estimates. Adjusting the market and book values for the level of cash does not improve the accuracy, but using forecasted earnings in place of historical earnings improves the estimates based on the P/E multiple.

We partitioned the sample into financial and nonfinancial companies and, within those two groups, formed groups based on size and profitability. We also partitioned the companies into those with high (low) levels of intangible assets and research and development activities. We found that valuations are more precise for large companies. For all company sizes, the asset multiple performs the best and the sales multiple performs the worst. Valuations based on the asset multiple appear to be most precise for companies with mediocre or low earnings; they are roughly equally as precise as valuations based on other multiples for companies with high earnings. The bias for the measure of earnings is positive for companies with high earnings and negative for companies with low earnings. The asset multiple performs best for companies with high earnings and the sales multiple performs best for companies with low earnings.

The valuation errors are generally smaller for nonfinancial companies than for financial companies. The asset multiple performs best for nonfinancial companies and the sales multiple performs best for financial companies. The asset multiple performs best for companies with high intangible assets (i.e., research and development), the sales multiple performs best for companies with low intangible assets. We also found that valuations are more precise for large companies than for small companies. This is presumably because larger companies have more intangible assets.



Our research is certainly relevant to practitioners, such as investment bankers and analysts, because they use multiples to value companies, but we believe it is also consequential to academic researchers. For instance, studies of the effect of corporate diversification on value use multiples to value individual segments of a company and then compare the estimated aggregate value to the market value to determine the “excess value” created by diversification. The results presented here may help such researchers choose multiples that minimize potential bias embedded in the value measures, especially if the companies or company segments exhibit certain irregularities.

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