

Appendix

Unless otherwise noted, data are from the Compustat's Fundamentals Annual data on wrds. Names in parentheses are wrds variable names.

Variable Name	Definition
Age	Number of years since CRSP listing (Source: CRSP)
Valuation	
Market Cap/GDP	Market Cap divided by GDP (series GDPA from the U.S. Bureau of Economic Analysis)
Tobin's q	Book value of assets (at) minus book value of common equity (ceq) plus the market value of common equity (csho*prcc_f)
Market cap (000s)	Price times shares outstanding (prc*shrout) from CRSP, in 2015 dollars
Small firms	Percent of listed firms with market capitalization < \$100M
Revenue Herfindahl	For each 3-digit NAICS in each year, the square of the revenues (revt) of each firm divided by the revenues of all firms in the same NAIC industry, summed over all firms in the same industry
Investment	
Capital Expenditures/Assets	Capital expenditures (capx) / lagged assets
R&D/Assets	R&D (xrd) / lagged assets. If R&D is missing, it is set equal to 0.
Fixed Assets/Assets	Fixed assets (ppent) divided by assets
Inventory/Assets	Inventory (invt) divided by assets
Cash/Assets	Cash and marketable securities (che) divided by assets
Profitability	
Operating cash flow/assets	Operating income before depreciation (oibdp) minus interest (xint) minus taxes (txt), divided by lagged assets
Loss firms	Percent of firms with net income (ni) less than zero
R&D-adjusted operating cash flow/assets	CF/assets plus RD/assets
Return on assets (ROA)	Earnings before extraordinary items divided by assets (ib/at)
Financing	
Book leverage	Long term debt (dltt) plus debt in current liabilities (dlc), divided by assets (at)
Market leverage	Long term debt (dltt) plus debt in current liabilities (dlc), divided by total assets (at) minus book equity (ceq) plus the market value of common equity (csho*prcc_f)
Net Leverage	Long-term debt (dltt) plus debt in current liabilities (dlc) minus cash (che), divided by assets (at)
Negative net leverage firms	Percent of firms with negative net leverage
Interest/Assets	Interest expense (xint) divided by lagged assets
No debt firms	Percent of firms with no long term debt (dltt) or debt in current liabilities (dlc)
Net equity issuance	Sales of equity (sstk) minus purchases of equity (prstk), divided by lagged assets
Ownership	
Institutional ownership	Percent of shares outstanding held by institutions (Source: Thomson Financial 13f data)
Blockholder	Percent of firms with an institutional owner who holds 10 percent or more of outstanding shares (Source: Thomson Financial 13f data)

Payout Policy

Dividend paying firms	Percent of firms that pay dividends ($dvc > 0$)
Dividends/Assets	Annual cash dividends on ordinary stock (dvc), divided by lagged assets
Repurchases/Assets	Purchase of stock ($prstk$) minus any decrease in preferred stock ($pstk$), divided by lagged assets
Total payout/Assets	$Dvc + prstk$, divided by lagged assets
Total payout/ Net income	$dvc + prstk$ divided by net income (ni)
