Financing Major Investments:
Information about Capital Structure Decisions

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Abstract

We study how 1,455 firms paid for 2,027 very large investments during the period 1989-2005. Compustat Flow of Funds data indicate that major investments are mostly externally financed. An initial reliance on heavy debt financing is reversed following the event year, as firms adjust toward target leverage ratios. Small firms issue a surprisingly large amount of equity in this process. Pecking order and market timing effects appear during the event year, but weaken in the course of completing the financing process.

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1. Introduction

The study of corporate finance basically concerns the choice of new investments and decisions about how to finance those investments. It is therefore somewhat surprising that researchers have generally studied these two decisions separately from one another. Perhaps this dichotomy traces to Modigliani and Miller's (1958) classic analysis, which took a firm's asset composition as fixed and evaluated the impact of financing choices on firm value. The recent resurgence of empirical interest in capital structure has likewise concentrated on the liability side of firms' balance sheets. However, focusing on the liabilities alone may overlook potentially important influences. Some firms may be financing large new investments while others are more static. Some firms may have substantial internal cash flows, while others are cash constrained. Firms probably confront at least some fixed costs of adjusting their leverage (Leary and Roberts (2005)). Hovakimian et al. [2004] therefore argue that firms should be closest to their desired capital structure shortly after they have completed a major re-capitalization.. Harford et al. (2006) argue that capital structure adjustments also may be relatively inexpensive when firms choose how to finance large acquisitions, which often require them to raise substantial external funds.[1] Likewise, marginal leverage-adjustment costs may be less important when a firm must raise new external funds -- such as when it must finance major investment expenditures (Mayer and Sussman (2005)). New investments must be paid for and the need to finance large investment may reveal information about how firms prefer to manage their capital structure.

In this paper, we assemble a sample of firms making large investments and study their financing decisions. We screen all Compustat firms to identify those with "major" real investments during the period 1989-2005. We separately identify major "built" investments (Compustat item #128, "capital expenditures") and investments "acquired" from outside the firm (Compustat item #129, "acquisitions"). We then use Compustat's Statement of Cash Flows to infer how these major investments were financed. It is tempting to limit our analysis to the year in which a the major event oc-

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[1] Hovakimian et al. (2004) likewise argue that capital structure preferences will be most apparent when firms undertake substantial debt-for-equity re-capitalizations.

curs. However, Mayer and Sussmann [2005] point out that a firm's ultimate financing choices need not be manifested during the investment year. For example, suppose that a firm's cash flow statements indicate a large decline in working capital during the year a large capital expenditure occurred. This could mean that the firm financed its investment through accumulated retained earnings – or it may reflect a stock or bond issuance in year (t-1) that was intended to finance this investment. For acquisitions, one financing arrangement might "get the job done quickly" but subsequent refinancings offset or even eliminate the initial choice.

The firms in our sample finance the majority of their major investment expenditures by raising new, external funds. In fiscal years with a large investment, new debt provides at least half the required funds. About 15 - 20% of the typical large investment is proximately financed by the sale of equity, with internal funds supplying most of the remainder. However, multi-year financing adjustments are important and systematic. When finance and investment decisions are aggregated over two- (or three-) year intervals, a firm's external securities issuance tends to move it toward a target debt ratio computed from the usual combination of firm features. Some financing choices reflect pecking order or market timing effects. Financing choices vary with firm size, but the nature of these variations is quite noteworthy: smaller firms rely more on external equity funds, which seems inconsistent with the pecking order theory of capital structure (Frank and Goyal [2003], Fama and French [2003]).

The rest of this paper is organized as follows. Section 2 sets the stage for our analysis with a short literature review. Section 3 explains how we identify "major" investments, and describes the features of our resulting sample firms. Financing patterns for these investments are evaluated in Section 4, and the next section reports some robustness results. The paper concludes with a summary and a discussion of the implications for further research.

2. Literature Review

Finance theory has long hypothesized that a firm's capital structure affects its market value, but the empirical evidence remains unclear about the specifics.

The dynamic trade-off hypothesis about capital structure asserts that a firm's characteristics determine its optimal capital ratio. Harris and Raviv [1991] provide a list of variables likely to affect a firm's preferred capital structure: fixed assets, nondebt tax shields, investment opportunities, firm size, earnings volatility, advertising expenditure, the probability of bankruptcy, profitability and uniqueness of the product. Many researchers have used these variables in estimating an "optimal capital structure" model, producing considerable evidence that a firm's characteristics systematically determine its optimal leverage. Moreover, a change in characteristics elicits a change in preferred leverage. Many of these studies estimate a simple cross-sectional regression, which implicitly assumes that the typical firm has attained its desired capital structure. However, adjustment costs may keep firms away from their optimal capital ratios, at least in the short run (Leary and Roberts [2005]). Flannery and Rangan [2006] show that failing to account for partial adjustment introduces an omitted variables bias that may be quite serious. They also show that including firm fixed effects in a model of capital structure adjustment substantially increases the estimated adjustment speed.[2] Lemmon et al. [forthcoming] also emphasize the importance of firm-specific effects, which they contend are more important than specific firm characteristics like fixed assets or investment opportunities. The dynamic panel models required to test the trade-off theory involve some unresolved, econometric issues (Baltagi (2005)). These estimation problems raise the value of testing the trade-off model in a different way, as we do here.

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[2] A very slow adjustment speed suggests that tradeoff considerations do not importantly affect firm's capital decisions (e.g. Fama and French [2002]).

Myers (1984) challenges the tradeoff model of capital structure by contending that asymmetric information imposes losses on existing shareholders when their firm sells new shares to the public. According to this "pecking order" hypothesis, firms generally prefer to finance investments with internally generated funds. When external funding is required, firms strongly prefer debt to equity. Shaym-Sunder and Myers [1999] present empirical support for the pecking order hypothesis in a sample of large, long-lived firms. Chirinko and Singha (2000) challenge the statistical power of their tests, and Frank and Goyal [2003] show that their model does not apply to a broader sample of Compustat firms. Frank and Goyal [2003] also report that small firms quite often issue equity, contradicting the pecking order's prediction that firms with information asymmetries are reluctant to sell equity.

A third capital structure hypothesis contends that managers can identify when their firm's market value deviates from fundamentals. In raising external funds, managers choose between debt and equity on the basis of their relative valuation errors. When investors are overly bullish, the managers issue shares; bearish investors lead managers to issue debt. A firm's leverage at any point in time therefore reflects the pattern of historical seecurity mis-pricings when new investment opportunities occurred (e.g. Baker and Wurgler (2002), Ritter and Huang [2007]). However, these results have also been challenged on econometric grounds (e.g. Hovakimian, [2004], Kayhan and Titman [2007]). Once again, methodological problems limit our ability to reach firm conclusions about capital structure.

Hovakimian et al. [2004] study a set of firms that have chosen to revise their capital structures. If fixed adjustment costs are important, these firms should be closer to their desired leverage than they typical firm. They identify 1,689 firms that issued or redeemed <u>both</u> debt and equity exceeding 5% of the prior year's book asset value in the same fiscal year. They find more evidence for tradeoff behaviour and less pecking-order behavior in the dual-issuer sample than in the set of passive (non-issuing) firms. A potential problem with this result is that the authors cannot adjust for endoge-

neity. That is, their results may be affected by some unobserved debt or equity price characteristic that caused the decision to re-capitalize.

Like Hovakimian et al. [2004] we approach the capital structure question outside the dynamic panel framework. Following Mayer and Sussman [2005], we collect a sample of firms that made large investment expenditures and examine how those investments were financed.[3] We identify large investment events differently from Mayer and Sussman (2005), and undertake a more extensive multivariate analysis of financing decisions. We also most strictly separate Built investments from Acquisitions and find some interesting differences in their financing patterns.[4]

3. Sample Selection

Our research design requires a set of "major" investment events, but theory provides no clear method for identifying such events. We therefore proceed with one plausible rule, that an investment is "major" if

- it exceeds 200% of the firm's past three years' average investment level (its "benchmark" investment), *and*

- it is at least 30% of the firm's prior year-end total assets. [5]

Compustat reports data on two sorts of investment: capital expenditures (Item 128) and acquired assets (Item 129). We compute separate investment levels for each firm-year's built and acquired capi-

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[3] Our sample is also selected on the basis of an endogenous decision, but it is not so specifically tied to securities (mis?)valuation. If our conclusions tend to confirm Hovakimian et al.'s, we can have greater confidence in the truth of the supported hypotheses.

[4] Mayer and Sussman (2005) selected all Compustat firms showing a large investment "spike" – one large investment year, preceded and succeeded by stable, lower investment expenditures. Examining the time series of investments associated with our major events (not reported here) suggests that the "spike" nature of Mayer and Sussman's filter rule probably identifies more acquisitions than built investments, so their results may apply more directly to acquisitions.

[5] Analysis based on a less restrictive, alternative rule (100% of trailing investment and only 20% of total assets) yields very similar results.

tal expenditures. We refer to internal investment projects (pure capital expenditures) as *built invest-ments*, and to external investments as *acquired investments* or *acquisitions*.

Before identifying firms with major investments, we trimmed the universe of CRSP-Compustat firms. We excluded firms from the sample for any year in which:

- The firm's book value of equity is negative in the current or the previous year.

- A firm is missing data for capital expenditures *and* acquisitions (items #128 and #129), or for income before extraordinary items (item #123, used to calculate cash-flows).

We also exclude firms from regulated industries or industries with unusual capital structures: two-digit NAICS industry codes equal to 22 (utilities), 52 (finance and insurance), 55 (management of companies and enterprises), or exceeding 90 (public administration). Compustat's flow-of-funds data, which we use to identify financing patterns, become available only in 1988. We therefore focus on investment events that occurred between 1989 and 2005. These screens leave 76,448 annual observations for 11,090 firms, which we search for major investment events.

Table 1 describes our sample event firms. We identify 769 firms with major built investments and 820 firms with major acquisitions. Because some firms have multiple events, the full sample includes 1,159 built events and 1,046 acquisitions. In order to evaluate built and acquired events separately, we omit 67 firms with both built and acquired major investments during the 1989-2005 sample period. This yields 1,066 built events and 961 acquired events for our main testing sample. Table 2 compares our Built and Acquired sample firms to the industrial concentrations of all Compustat firms. Large investments over this time period were relatively common in the manufacturing (NAICS = 32, 33) and Information (NAICS = 51) industries, while Transportation (40), Health Care (62) and Accommodations (72) undertook relatively few major investments. Although some industries are proportionally over- (or under-) represented, no single industry dominates our sample.

Table 3 reports some financial aspects of the event firms. Many of the relevant variables are ratios, which can take extreme values for a small number of observations. We therefore exclude the

0.5% highest and 0.5% lowest observations from our reported means and medians, and we concentrate our discussion on the *median* values.[6] Panel A of Table 3 compares the built vs. acquiring firms' median values for the year preceding the investment event. These two groups differ significantly in almost all measured characteristics. Most notably, the acquiring firms are far larger and more profitable than firms with built investments and exhibit a significantly higher median debt ratio (19.9% versus 14.2%). For both groups, the median market-to-book ratio for equity is fairly high (around 2.6), indicating that the market had been anticipating growth for firms making major investments. The two groups' recent asset growth rates are high and statistically indistinguishable.

The direct comparison between Built and Acquired investments in Panel A may be inappropriate if each sort of investment was concentrated in time. Panel B therefore compares each event firm to the set of non-event firms available on Compustat <u>at the same point in time</u>. Both sample groups (Built and Acquired) median characteristics differ from the contemporary non-event firms. Consistent with Panel A, non-parametric tests confirm that the Built and Acquired sub-samples were differentially different from their non-event contemporaries in nearly all measured dimensions. With the event firm sample, Built firms are substantially smaller, less profitable, less leveraged and better endowed with investment opportunities (M/B ratio) than the Acquiring firms.

4. Capital Structure (Financing) Decisions

By construction, our sample firms are very likely to be raising external funds. The literature on capital structure provides a multitude of factors that might influence their financing choice. Our data can indicate the extent to which sample firms' behaviour is consistent with the pecking order hypothesis, the trade-off hypothesis, or the market-timing hypothesis.

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[6] The sample is truncated <u>only</u> when reporting the statistics in Table 3. We use all observations when identifying event firms and conducting tests of financing.

Compustat's Flow of Funds data permits each firm's annual cash-flows to be aggregated into four exhaustive financing sources for any time interval:

Debt$_j$ is the jth firm's net change in long-term and short term debt (Compustat items 111 plus 114 less 301).

Equity$_j$ is the jth firm's dollar value of (net) common and preferred share sales (Compustat items 108 + 115).

Cashflow$_j$ is jth firm's operating cash-flows, defined as after-tax income before extraordinary items plus depreciation and amortization less cash dividends (Compustat items 123 + 125 - 127).

Other$_j$ is the aggregate of all jth firm's other funds flow categories, including statistical discrepancies.

The following identity must hold for each firm over any time interval:

$$Invest_j = Debt_j + Equity_j + Cashflow_j + Other_j \qquad (1)$$

where **Invest$_j$** is the sum of firm j's Built and Acquired capital expenditures. Obviously, an increase in **Debt** or **Equity** affects firm leverage. Leverage is also affected –- it falls -- when new investment is finance by **Cashflow** or **Other**. To the extent that operating cash flows are not paid out as dividends, the firm's equity account increases relative to outstanding debt. (i.e. leverage falls). Because **Other** does not include changes in long-term debt, financing new investment from **Other** sources does not affect leverage as we define it in equation (3) below.[7]

Although the identity (1) must hold within each accounting period, contemporaneous changes in the RHS values of (1) may not reveal the ultimate financing source (Mayer and Sussman (2005)). For example:

1) A firm might have issued **Equity** shares in $\tau = -1$, planning to use the proceeds to fund investment during year $\tau = 0$. Until the investment occurs, however, the firm might pay down its line of credit, which can then be drawn to purchase new assets in $\tau = 0$. The event-year values in (1) would mistakenly indicate a **Debt**-financed investment.

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[7] The capital structure literature represents "leverage" empirically in two different ways: as the ratio of debt to total assets and as the ratio of debt to (debt plus equity). We use the latter definition, which we believe is more common in the literature.

2) Suppose a firm issued **Debt** in τ = -1, invested the proceeds in short-term financial assets, and then sold off those liquid assets to fund investments at τ = 0. The event-year values in (1) would mistakenly indicate financing from **Other**, which includes cash and equivalents (# 274).

3) A firm might pay for investment by both drawing down a line of credit and reducing its portfolio of liquid assets, but plan to repay the line with the proceeds of an equity issue the following year. The event-year values in (1) would indicate financing from **Debt** and **Other,** rather than **Equity** and **Other**.

Other examples are readily constructed. The point is that a firm might make advance arrangements to fund a planned, large investment, or it might use a temporary source of funds while planning to obtain permanent financing later. In order to permit these possibilities, we examine the flow of funds relation (1) over longer periods than just the event year. In addition to considering the investment year's cash flows (τ = 0), we also evaluate the sum of years 0 and 1, and the sum of years -1 through +1. By examining financing sources over several event windows, we hope to identify any systematic dynamics in firm financing decisions.

4.1. Financing Decisions: Univariate Results

Table 4 reports the average investment's size and financing proportions for three different time intervals: the event year itself (τ = 0), the two year window starting in the event year (τ = [0, +1]), and the three-year interval centered on the event year (τ = [-1, +1]). The Table's last four rows describe each financing source's relative contribution to investment spending. Because the mean of a ratio can be substantially influenced by a few extreme values, we follow Loughran and Ritter [1997] and Fama and French [2003] in reporting these percentages as ratios of averages instead of the averages of firms' individual ratios. That is, we compute the contribution of new **Equity** to Built investment financing (22.63% for the event year alone (τ = 0)) as the ratio of all sample firms' new equity issues to their total investment expenditures. The proportions for **Debt**, **Cashflow**, and **Other** are computed analogously. The accuracy of the Compustat Flow of Funds data is confirmed in the last row, where all the financing proportions are shown to sum almost exactly to unity.

The left half of Table 4 indicates that firms with Built major investments finance themselves primarily by raising new external funds.[8] During the event year, firms issue new debt equal to 41.60% of their total investment expenditures and new equity shares for another 22.63%. ***Cashflow*** contribute 32.51%. These "snapshot" results are not entirely consistent with the pecking order hypothesis, but we do see that ***Debt*** provides the largest portion of total financing for new investments in the event year.   However, over the [-1,+1] event window the combined proportions of ***Cashflow*** and ***Other*** funding rise about 7%, from 35.59% to 46.51%. The relative importance of ***Debt*** declines by about the same proportion, from 41.60% to about 33.57%. The right half of Table 4 describes major Acquisitions, which are substantially larger (in dollar terms) than Built investments. Acquisitions are also financed initially by external funds (74.73%) in the event year, with ***Debt*** providing an even larger proportion (61.52%) than it does for Built investments. However, acquiring firms exhibit the same dynamic feature as Built firms: ***Debt*** financing falls to 44% of investments over the [-1, +1] period, with ***Cashflow*** contributions rising to replace borrowed funds. In other words, the event year's cash flow statistics probably overstate the importance of debt financing, particularly following acquisitions. Mayer and Sussman (2005) report a similar reduction in ***Debt***, although they find that ***Equity*** issuances replace the ***Debt***, while our data indicate a larger role for ***Cashflow*** funds. The same broad pattern emerges from (unreported) comparisons of firms' *median* financing choices.

Table 4 implies a reasonable pattern of investment financing dynamics. Debt is initially the main external claim sold, but the initial leverage effects of large investments are systematically reversed as profitable firms subsequently retain earnings.

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[8] The conventional wisdom is often said to indicate that most corporate investment is financed with internal funds (retained earnings). Our conclusion that major investments are funded primarily with external funds is not necessarily inconsistent with this conventional wisdom, since the <u>major</u> investments in our sample represent only a subset of all investment activity.

Previous writers have found that securities issuance activities and leverage vary substantially with firm size. Table 5 therefore presents median values for three size-classes of sample firms.[9] The results clearly indicate that the investment type and firm size matter. Acquisitions are most prominently financed by *Debt*, although the event year's high debt is subsequently reduced in all segments of Table 5. Over the broadest [-1, +1] window, the Large Firms use the greatest *Debt* proportion and rely least on Equity. Medium Firms finance the largest proportion of their Built investments with *Cashflow* funds (38.81%), while Small Firms' largest financing source for Built investments is *Equity* (40%). The extent to which financing choices differ with firm size is further illustrated in Figure 1, which plots median financing patterns during the event year ($\tau = 0$) for different-sized firms. *Debt* provides the largest proportion of investment funds for both investment types and for all firm size groups. *Debt* is more important for larger firms, and when financing acquisitions.[10] Table 5 again indicates that financing patterns change as we widen the event window. Over time, firms replace some of the *Debt* issued in year 0 with *Cashflow* and new *Equity.*

4.2. Financing Decisions: Multivatiate Results

Financing for the large investments described in Tables 4 and 5 may reflect the nature and scale of the investment, the firm's current market opportunities, or the existing deviation from some type of target leverage ratio. We capture the multiple determinants of financing behavior via the regression

$$F_{ijt} = \alpha + \beta1\ DEV_{j,\,t-1} + \beta2\ Profit_{j,\,t-1} + \beta3\ ln(Size_{j,\,t-1}) + \beta4\ INV\_TA_{j,\,t-1}$$
$$+ \beta5\ FA\_TA_{j,\,t-1} + \beta6\ Runup_{j,\,t-1} + \beta7\ Q_{j,\,t-1} + \widetilde{\varepsilon}_{ijt} \tag{2}$$

where $F_{ij\tau}$ = the proportion of firm j's net new investment financed by the ith funding source: i = *Equity*, *Debt*, *Cashflow*, and *Other*).

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[9] For each fiscal year, we sort the universe of Compustat firms that were searched for major investments into three equal-sized groups on the basis of their book assets. Our event firms are then placed into the "Small", "Medium", or "Large" grouping. The results are qualitatively similar when we form size groupings on the basis of equity market value instead of book assets.

[10] *Equity* is more important for funding smaller firms, as shown by Frank and Goyal [2003].

α represents a complete set of year dummy variables, 1989-2005.

$DEV_{j, t-1}$ = the deviation from target leverage: the firm's estimated target debt ratio (computed from its t -1 characteristics as in Flannery and Rangan [2006]) less its actual debt ratio.

$Profit_{j, t-1}$ = net annual income before extraordinary items, as a proportion of yearend total assets

$ln(Size_{j, t-1})$ = log of the firm's yearend book assets. Table 5 indicates a substantial effect of size on financing choices.

$INV\_TA_{j, t-1}$ = the ratio of investments (built plus acquired) during the event window to book total assets at the yearend preceding the event window. Larger investments may be financed differently.

$FA\_TA_{j, t-1}$ = the firm's yearend book value of fixed assets as a proportion of total assets; a measure of "debt capacity".

$Runup_{j, t-1}$ = the stock's excess return, relative to the market, during the 12-month period through the end of period t-1.[11] Firms tend to issue stock following a *Runup* in the price (Korajczyk, Lucas and MacDonald [1991]).

$Q_{j, t-1}$ = the ratio of the firm's market value (market value of equity plus book value of debt) to the book value of assets at the yearend preceding the event window. *Q* measures the firm's investment opportunity set.

We specify a regression of the form (2) for each of the four funding sources. The Compustat Flow of Funds accounting identity (1) indicates that all investment expenditures must be financed by a combination of **Debt**, **Equity**, **Cashflow**, or **Other** sources. This implies a cross-equation constraint: the slope coefficients in (2) measure the impact of the associated regressors on each type of financing, and the coefficients on each regressor must therefore sum to zero for any time interval.

The firm's deviation from target leverage (**DEV**) bears particular discussion because it forms the basis for our tests of the trade-off model of capital structure. We define leverage as

$$LEV_{i,t} = \frac{D_{i,t}}{D_{i,t} + E_{i,t}}, \tag{3}$$

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[11] For windows beginning in year 0, this return is computed over the months [-17,-6] relative to the end of the event year. For the event window [-1, +1], this excess return is computed over the months [-29,-18] relative to the end of the event year.

where $D_{i,t}$ denotes the book value of firm i's interest-bearing debt (the sum of Compustat items 9 plus 34) at time t, and the firm's equity value ($E_{i,t}$) can be measured alternately in book or market terms. Flannery and Rangan [2006] fit a partial-adjustment model to the set of all industrial firms:

$$LEV_{i,t} - LEV_{i,\,t\text{-}1} = \lambda\,(LEV_{i,1}{}^* - LEV_{i,\,t\text{-}1}) + \widetilde{\delta}_{i,t} \tag{4}$$

According to this specification, the typical firm annually closes a proportion λ of the deviation ("**DEV**") between its actual ($LEV_{t\text{-}1}$) and its desired leverage (LEV_t^*). Specifying the desired (target) leverage as a linear combination of firm characteristics gives the estimable model

$$LEV_{i,\,t} = (\lambda\beta)\,X_{i,t\text{-}1} + (1\text{-}\lambda)LEV_{i,t\text{-}1} + \widetilde{\delta}_{i,t}\,. \tag{5}$$

X is a vector of variables commonly used to proxy for a firm's target debt ratio (earnings, depreciation, fixed assets and R&D expenditures (all as a proportion of total book assets), the assets' market to book ratio, the log of (real) total assets, the firm's industry median **LEV** value, a dummy variable indicating whether the firm has a credit rating, and firm fixed effects. We re-estimate Flannery and Rangan's "base model" (their Table 2, column 7) and use the estimated coefficients (λ, β in (5)) to fit a target debt ratio for each firm at the start of each year.[12] We then compute each firm's **DEV**iation from its estimated target:

$$DEV_{it} = LEV_{i,t}^* - LEV_{i,t-1} = \hat{\beta}X_{i,t-1} - LEV_{i,t-1} \tag{6}$$

The trade-off theory of capital structure implies that new investments should be funded disproportionately with **Debt** when **DEV** > 0. Conversely, a firm with **DEV** < 0 is "over leveraged" and should issue equity to reduce its leverage. Merging these target debt ratios with the other data on investing firms leaves 751 Built large investments and 757 Acquired large investments with complete data for estimating our equations (2).

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[12] We thank Kasturi Rangan for computing the estimated target values.

Table 6 presents the results of estimating (2) separately for Built and Acquired investments, using both market and book measures of firm capital structure. Because the Flow of Funds data should obey the financing constraint (1), our main results come from four single-equation, OLS regressions. We confirmed that the accounting identity holds (almost) perfectly by estimating the four variants of (2) as seemingly unrelated regressions and testing the restriction that the β estimates on each independent variable sum to unity. In virtually all cases, we cannot reject this hypothesis; even the statistically significant deviations from this theoretical condition are very small in magnitude. More broadly, the results in Table 6 (derived from single-equation estimates) are virtually identical to the results we get from estimating the equations via SUR, with or without imposing the cross-equation restrictions.

Each panel of Table 6 includes twelve columns: four financing proportions (**Debt**, **Equity**, **Cashflow**, or **Other**) for each of three event windows ($\tau = 0$, $[0,+1]$, and $[-1,+1]$). Panel A describes market-valued leverage **DEV** for firms with Built investments. Consider first the event-year ($\tau = 0$) financing pattern in columns (1) through (4) of Panel A. Consistent with presence of a target leverage ratio, **DEV**iations from our estimated targets positively affect the proportion of new investments financed with **Debt**. **DEV** also reduces the firm's reliance on **Equity** and **Cashflow**, although these coefficients are highly insignificant. Coefficients in the second row indicate that more Profitable firms issue significantly less **Equity**, making up the difference in **Cashflow** or **Other** financing. Many empirical studies have found a negative relationship between profits and leverage, and inferred support for the pecking order hypothesis. Here, however, we see a substitution largely between retained earnings (**Cashflow**) and **Equity** issuance, which does not affect leverage. Somewhat surprisingly, given the univariate results in Table 5, firm Size has no significant effect on financing decisions. The scale of new investments (INV_TA) has a positive effect on leverage during the event year. The coefficients on tangible assets (FA_TA) indicate that firms with more PP&E finance new investments with significantly less **Debt**, perhaps because their existing debt capacity has already been utilized. The

coefficients on Runup indicate that firms with larger recent stock price increases use more **Equity**, consistent with the hypothesis that managers actively sell overpriced equity. This increased reliance on equity is significantly, and nearly exactly, offset by the use of less **Other** funds. Finally, firms with high growth opportunities (Q) use much more equity, again offset by a reduction in **Other** funds.

Some of these initial financing arrangements <u>tend to change</u> as time passes. The middle four columns of Panel A show that **Debt** and **Equity** both respond appropriately to **DEV**iations from target leverage. The τ=0 reliance on **Debt** for larger investments is now reversed: INV_TA carries a significantly negative coefficient for <u>both</u> **Debt** and **Equity** over the window τ = [0,+1], with the balance being made up by **Other** funding. This suggests that larger investments are part of a broader plan to revise a firm's asset portfolio. The impact of FA_TA in the event year is also reversed with the wider window: tangible assets have no effect on **Debt** issuance, but reduce **Equity** and raise **Cashflow** by similar, significant amounts. The net effect of FA_TA on leverage is thus approximately zero after capital structure adjustments have been completed. The Runup and Q effects from τ=0 persist over the wider event window.

Columns (9) – (12) of Panel A indicate that financing decisions over a [-1, +1] event window closely resemble those over the [0,+1] window. In other words, pre-investment financing does not appear to have a major impact on how firms pay for their large investments; adjustments to the event year decisions are generally made <u>after</u> the investments are in place. The only notable change between these two windows is that the effect of Q on **Equity** tend sto moderate and become (at best) marginally significant.

Several important conclusions emerge from Panel A of Table 6.

- Financing decisions for Built investments are dynamic and change in important ways subsequent to the event year. Researchers should examine an appropriately lengthy adjustment period in order to connect financing conclusively with leverage adjustments.

- Target leverage **DEV**iations significantly influence **Debt** financing as firm use debt issues to move toward their target leverage.

- Firms with high Profits avoid issuing new *Equity* by financing new investments largely out of internal *Cashflow*, with a limited net effect on leverage.

- Larger investments are funded with less security issuance and more retained earnings (*Cashflow*) or *Other* adjustments to the balance sheet.

- Firms finance investments more heavily with new *Equity* issuances when their stock price has been rising. This is consistent with the suggestions of both Baker and Wurgler (2002) and Carlson et al. (2004).

Panel B of Table 6 presents financing results for firms making for large Acquisitions. Perhaps most noteworthy are the strong target-adjustment effects manifested for all event windows. Both *Debt* and *Equity*/*Cashflow* uses tend to close the gap between current and target leverage, consistent with the results of Harford et al. (2006). The effects of Profit, asset tangibility (FA_TA) and Runup on Acquisition financing resemble those for Built investments, but differences appear for several important variables. Firm size now affects financing: larger firms rely significantly less on *Equity* and more on *Other*. These findings conflict with the univariate results in Table 5. Investment size (*INV_TA*) also presents surprising results, indicating that relatively large investments are initially financed with debt, but eventually funded out of *Other* funds. The effects of *Q* manifested for Built investments – more *Equity*, less *Other* – are slightly stronger for Acquisitions.

5. **Robustness**

In addition to the results reported in Table 6, we conducted a series of robustness tests with respect to applied sample selection and methodology. All of these exercises yielded qualitatively the same results as those reported in the previous sections.

Identifying the Event Firms. Our definition of "major" firm investments is essentially arbitrary. For the results reported above, we selected firms whose absolute capital/acquisition expenditures exceed 200% of a trailing (3-year) average investment ratio and 30% of the prior year's total assets. We replicated our long-run performance analysis with a sample in which "major" investments exceeded only 20% of the firm's prior year-end assets. The main conclusions are unchanged.

Book-valued Target Leverage Estimates. The *DEV*iation variable in Table 6 assumes that firms target *market*-valued leverage ratios. However, some researchers prefer to measure leverage in book terms, although many researchers report similar findings for each measure. When we define leverage in book-value terms (the book value of interest-paying debt over total book assets), *DEV* becomes the difference between actual and target book leverage. The results are strikingly similar to those reported in Table 6.

Errors-in-Variables. The *DEV* variable in Table 6 is a generated regressor, which may bias our SUR estimates unless the measurement errors are uncorrelated with the regression residuals.[13] We therefore conduct three robustness checks. First, we estimate the same set of regressions separately as 2SLS, where *DEV* is treated as an endogenous variable (we use lagged *DEV* as the instrument). Second, we estimate simple OLS (with and without imposing the constraint that coefficients add-up to zero). Finally, we employ a bootstrap procedure to both OLS and 2SLS to estimate the true distribution of coefficient errors. None of these approaches reverses the main conclusions in Table 6.

Winsorization. Still need to check the effect on Table 6 of winsorizing the data.

6. Summary and Conclusions

This paper studies U.S. firms that made relatively large capital expenditures or acquisitions during the 1989-2005 period. Such activities are necessarily accompanied by major financing decisions. Because these investments represent a substantial proportion of our sample firms' total assets (at least 30%, by construction), we anticipate that the associated financing decisions will reflect managerial attitudes toward overall capital structure.

We find similar, but not identical, financing patterns for built and acquired major investments. *Debt* issues pay for the largest proportion of new investments in the event year, particularly for

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[13] Some previous researchers have ignored this potential source of estimation error, which our results suggest have no important effect, at least in the present context.

large firms. ***Equity*** has a relatively small role. This initial pattern seems consistent with a pecking order view of capital structure. Over time, however, firms systematically supplement newly-issued debt with equity funds. Relative to large firms, small firms rely more on issuing new equity to replace debt, while medium-sized firms tend to use internal cash flow. This seems inconsistent with the pecking order theory of capital structure, because smaller firms are often said to confront higher information costs in selling their shares (Frank and Goyal [2003]). Moreover, we find that high profits do not reduce significantly debt issuance, but primarily replace new shares. Relatively larger investments tend to be funded eventually with internal funds. The leverage effect of profitability is therefore questionable. Furthermore, our regression analysis indicates that firms choose financing vehicles that move them toward a target debt ratio, although "market timing" effects also appear in the data.

Our analysis suggests at least one important area for further research. Compustat's flow of funds data do not permit us to distinguish between private ("bank") debt and publicly issued bonds or commercial paper. Because private debt involves better ("inside") information and monitoring incentives, and more complex covenants (Sufi [2005]), understanding how private debt is used in financing large investments may yield important further insights about corporate finance.

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Table 1: Frequency Distribution of Major Investment Events 1989-2005

Type of Firm	Number of Firms	Events
Initial Sample		
With major built investment	769	1159
With major acquisition	820	1046
Overlap: Firms with *both* built and acquired investment	67	93 (Built) / 85 (Acquired)
Final Sample		
With only major built investment(s)	702	1066
With only major acquisition(s)	753	961

Table 2: Industry Affiliation of Event Firms (event period 1989-2005)

NAICS	Definition	Built Investments			Acquired Investments		
		Number firms	% of event firms	% of all firms in industry	Number firms	% of event firms	% of all firms in industry
21	Mining	216	26.77%	23.77%	43	5.24%	5.33%
31	Manufacturing (Food, Beverages…)	25	3.25%	4.70%	30	3.66%	5.64%
32	Manufacturing (Wood,…)	69	8.97%	4.53%	106	12.93%	6.96%
33	Manufacturing (Metal,…)	127	16.51%	3.57%	246	30.00%	6.91%
42	Wholesale Trade	13	1.69%	2.24%	39	4.76%	6.72%
48	Transportation / Ware-housing	40	5.20%	12.05%	19	2.32%	5.72%
51	Information	83	10.79%	4.39%	106	12.93%	5.60%
54	Professional, Scientific and Technical Services	29	3.77%	3.57%	56	6.83%	6.89%
62	Health Care and Social Assistance	16	2.08%	4.48%	44	5.37%	12.32%
72	Accommodation and Food Services	54	7.02%	16.56%	11	1.34%	3.37%
---	Other (<5% each)	97	12.61%	20.14%	120	14.63%	34.54%
	Sum	769	100%	Avg = 8%	820	100%	Avg = 6.55%

Table 3: Descriptive Statistics for Event Firms

Summary statistics for event firms in the year preceding the investment event (event period: 1989-2005). Calculations are based on the sample of firms that had either built or acquired investments, but not both. Ratios have been multiplied by 100. The number of observations for each statistic may differ from the maximum number because of missing values and subsequent events. The test of "Medians, Built = Acquired" refers to a non-parametric Mann/Whitney rank sum test on differences in medians. *, *** denotes significance at the 10% and 1% significance-level, respectively.

Variable	Definition	Compustat
Size [Million $, 1983]	Total Assets, expressed in 1983 dollars	#6, deflated by the CPI
Profit [%]	Income before extraordinary items over total assets	#123 / #6
Debt Ratio [%]	Long-term debt and current debt over total assets	(#9+#34) / (#6)
M/B Ratio	Market Value Equity / Book Value Equity	#199/(#60/#125)
Growth [%]	Percentage change in total assets.	(#6-#6[t-1]) / (#6[t-1])
Equity Ratio [%]	Common and preferred equity over total assets	(#60+#130) / #6
Liabilities (other) [%]	Other Liabilities which are not long-term debt or debt in current liabilities (e.g. accounts payable, deferred taxes, etc.)	(#181-#9-#34) / #6
Investment Ratio [%]	Capital expenditures over total assets [t-1]	#128/ (#6[t-1])
Acquisition Ratio [%]	Acquisition expenditures over total assets [t-1]	#129/ (#6[t-1])
R&D [%]	R&D expenditures over total assets	#46 / #6

(continued…)

	Firms with Built Investment (max. 1066 events)				Firms with Acquisitions (max. 961 events)		

Panel A: Firms with Built vs. Acquired Major Investments, raw ratios

Data taken from the yearend preceding the event. Dollar magnitudes expressed in 1983 dollars.

	Median	Mean	Std.Dev	Medians, Built = Acquired?	Median	Mean	Std.Dev
Size [Million $, 1983]	31.81	171.72	529.95	***	124.19	514.16	1235.15
Profit [%]	3.25	-7.98	48.9	***	5.77	3.4	16.78
M/B Ratio	2.7	4.54	24.6	*	2.55	4.36	11.97
Growth [%]	14.8	35.04	141.73		11.9	45.28	348.18
Equity Ratio [%]	60.44	60.02	21.94	***	52.22	52.65	20.14
Debt Ratio [%]	14.23	19.28	19.28	***	19.92	22.55	18.48
Liabilities (other) [%]	18.18	20.63	13	***	23.79	24.82	11.82
Investment Ratio [%]	16.06	20.29	23.01	***	4.9	8.02	15.13
Acquisition Ratio [%]	0	1.96	11.83	***	2.8	13.34	77.78
R&D [%]	0	4.05	14.36	***	0	2.58	6.21

Panel B: Differential Medians Between Each Sample and the Contemporaneous, Non-event Firm Population

 Data taken from the yearend preceding the event. Dollar magnitudes expressed in 1983 dollars. Entries measure the <u>difference</u> between sample firms' median and the median non-event firm in the same year.

	Median [a]	Mean	Std.Dev	Median deviations, Built = Acquired?	Median [b]	Mean	Std.Dev
Size [Million $, 1983]	-22.73	116.43	574.08	***	57.65	452.12	1277.88
Profit [%]	0.41	-10.79	50.31	***	3.52	1.48	16.6
M/B Ratio	0.67	2.36	27.63	***	0.44	2.19	12.74
Growth [%]	11.19	31	151.35		7.56	30.33	103.8
Equity Ratio [%]	6.88	6.52	21.96	***	-1.5	-1.41	20.38
Debt Ratio [%]	-2.08	2.59	19.63	***	3.87	6.7	18.57
Liabilities (other) [%]	-4.99	-2.73	12.9	***	0.39	1.48	11.74
Investment Ratio [%]	11.64	16.24	24.34	***	0.42	2.06	6.32
Acquisition Ratio [%]	0	1.05	10.42	***	2.87	11.43	26.73
R&D [%]	0	4.32	15.62	***	0	2.36	5.62

[a] The Built firms' and non-event firms' median values of the reported variables differ significantly at the 5% confidence level or better.

[b] Except for the equity ratio, the Acquiring firms' and non-event firms' median values of the re-ported variables differ significantly at the 5% confidence level or better.

*, **, *** The underlying statistic is significant at the 10%, 5%, or 1% level respectively.

Table 4: Financing Patterns Associated with
Major Built and Acquired Investments

We report financing patterns for three alternative event windows: the event year itself ($\tau = 0$), a two-year window beginning in the event year ($\tau = [0, 1]$), and the three-year interval centered on the event year ($\tau = [-1, +1]$). The first two rows report mean investment amounts, measured in millions of 1983 dollars. The next four rows report the mean value for each financing source, expressed as the cumulative change in financing divided by the cumulative investment expenditures over the same time period. To minimize the effect of outlier ratios, we report the sum of all firms' financing as a proportion of all firms' investments.

Major Investment Type:	Built (max. 1066 events)			Acquired (max. 961 events)		
Event Window:	$\tau = 0$	$\tau = [0, +1]$	$\tau = [-1, +1]$	$\tau = 0$	$\tau = [0, +1]$	$\tau = [-1, +1]$
Expenditures Amounts (1983 dollars)						
Built Investments	$131.54	$186.42	$211.89	$39.59	$75.63	$101.06
Acquisitions	$12.18	$15.53	$17.17	$304.00	$332.65	$353.27
Financing as a proportion of capital and acquisition expenditures						
Equity	22.63%	11.907%	19.80%	13.21%	12.57%	13.52%
Debt	41.60%	37.95%	33.57%	61.52%	54.74%	44.04%
Cashflow	32.51%	38.09%	40.29%	17.30%	26.70%	33.96%
Other	3.08%	1.66%	6.22%	7.54%	5.54%	8.06%
Total:	99.82%	89.61% *	99.88%	99.57%	99.55%	99.58%

* Check. Is there a data error for the Equity proportion in this column?

Table 5: Financing Patterns by Firm Size

Numbers provided are median ratios of funds raised by the respective source to total investment expenditures per firm over the corresponding event window. The size classification is based on total assets of the population of Compustat firms, as defined in Section 3, and updated yearly. The median financing ratios for built and acquired investments were compared using a non-parametric Mann/Whitney rank sum test. *, **, and *** denote that the median ratios for Built vs. Acquiring firms differ at the 10%, 5% and 1%-level, respectively.

	Built			Acquired		
Type of Financing	$\tau = 0$	$\tau = [0, 1]$	$\tau = [-1, +1]$	$\tau = 0$	$\tau = [0, 1]$	$\tau = [-1, +1]$
Panel A: Small Firms [N(Built) = 367 / N(Acquired) = 86]						
Debt	27.26%	24.55%	23.96%	61.67% ***	46.86%**	42.20% ***
Equity	37.65%	45.03%	47.51%	12.98%***	22.57%**	22.89%***
Cashflow	6.89%	5.58%	7.87%	15.73%	19.67%*	25.92%**
Other	8.67%	11.18%	8.71%	-0.19%	0.26%	-11.18%
Panel B: Medium Firms [N(Built) = 399 / N(Acquired) = 359]						
Debt	34.41%	28.93%	26.50%	58.09% ***	46.63%***	42.43%***
Equity	14.06%	16.88%	19.75%	3.73% **	7.53%*	11.85%**
Cashflow	28.32%	32.88%	38.81%	22.44% ***	28.46%	33.43%
Other	0%	2.42%	1.77%	-0.29%	-1.98%*	-4.22%
Panel C: Large Firms [N(Built) = 300 / N(Acquired) = 516]						
Debt	42.44%	37.57%	35.00%	66.18% ***	52.69%***	48.14% ***
Equity	5.00%	10.23%	15.98%	1.12% ***	2.30%***	3.33% ***
Cashflow	31.71%	37.30%	40.49%	18.98% ***	30.11%**	36.29%
Other	3.70%	6.08%	5.29%	1.64%	3.27%	2.54%

Table 6: Seemingly unrelated regression estimates of four equations of the form:

$$F_{ijt} = \alpha + \beta 1\ DEV_{j,\ t-1} + \beta 2\ Profit_{j,\ t-1} + \beta 3\ \ln(Size_{j,\ t-1}) + \beta 4\ INV\_TA_{j,\ t-1} + \beta 5\ FA\_TA_{j,\ t-1} + \beta 6\ Runup_{j,\ t-1} + \beta 7\ Q_{j,\ t-1} + \widetilde{\varepsilon}_{ijt} \qquad (2)$$

where α represents a complete set of year dummy variables.

F_{it} = the proportion of the net new investment financed by each of the four funding sources: i = ***Equity***, ***Debt***, ***Cashflow***, and ***Other***) during the event window t.

DEV = the deviation from target leverage: the firm's estimated target debt ratio (from Flannery and Rangan [forthcoming]) less its actual market debt ratio at t = -1.

Profit = net annual income as a proportion of yearend total assets

***ln(Siz**e_{-1}*)* = log of the firm's yearend book assets. Table 5 indicates the effect of size on financing choices.

INV_TA = the ratio of investments (built plus acquired) during the event window to book total assets at the yearend preceding the event window. Larger investments may be financed differently.

FA_TA = the firm's yearend book value of fixed assets as a proportion of total assets; a measure of "debt capacity".

Runup = the stock's excess return, relative to the market, measured with 6 month distance to the event window over 12 months. Hence, if the event window starts at $\tau=0$, ***Runup*** is measured over the months [-17,-6]; if it starts at $\tau=-1$, Runup is measured over the months [-29, -18]. Firms tend to issue stock following a runup in the price (Korajczyk, Lucas and MacDonald [1991]).

Q = the ratio of the firm's market value (market value of equity plus book value of debt) to the book value of assets at the yearend preceding the event window. ***Q*** measures the firm's investment opportunity set.

Note that all explanatory variables are measured at the fiscal year-end preceding the event window. Within each event window, each regression is estimated separately, although an accounting identity should make each independent variable's four coefficients sum to zero across the four equations.
A p-value for equality with zero is reported in percentage format below each of the estimated coefficients.

**Panel A: Market Leverage Measure, Built Investments**

Dependent Variable	Event Window: τ = 0				Event Window: τ = [0, +1]				Event Window: τ = [-1, +1]			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	Debt	Equity	Cashflow	Other	Debt	Equity	Cashflow	Other	Debt	Equity	Cashflow	Other
DEV	0.846	-0.169	-0.339	-0.339	0.7	-0.709	-0.198	0.21	0.743	-0.645	-0.281	0.198
	0%	82%	18%	65%	0%	4%	52%	55%	0%	12%	45%	60%
Profit	-0.0108	-4.3	2.84	1.46	-0.054	-3.46	3.18	0.364	-0.0808	-3.73	2.95	0.889
	93%	0%	0%	0%	57%	0%	0%	11%	47%	0%	0%	0%
Size	1.27	-4.41	0.462	2.76	-2.58	-2.29	-0.193	4.9	-1.49	-5.48	6.03	0.689
	46%	54%	85%	70%	7%	50%	95%	15%	32%	18%	10%	85%
INV_TA	0.161	-0.547	0.288	0.0955	-0.089	-0.441	0.17	0.359	-0.1	-0.467	0.148	0.426
	0%	1%	0%	63%	4%	0%	6%	0%	3%	0%	18%	0%
FA_TA	-0.114	-0.309	0.121	0.288	0.0109	-0.328	0.234	0.0711	-0.0313	-0.475	0.282	0.214
	5%	21%	15%	24%	82%	1%	3%	55%	54%	0%	3%	10%
Runup (over 12 mnths pre-event)	0.0576	1.27	-0.0543	-1.28	0.0328	0.527	-0.0475	-0.485	-0.0394	0.409	-0.027	-0.341
	21%	0%	40%	0%	39%	0%	56%	0%	38%	0%	81%	0%
Q	0.198	9.99	-1.37	-8.89	0.661	6.12	-0.693	-6.07	-0.0924	2.36	-2.53	0.205
	71%	0%	7%	0%	14%	0%	47%	0%	86%	10%	5%	87%
Nobs	755	758	758	751	620	620	620	620	529	529	529	529
$\overline{R}^2$	0.0584	0.264	0.389	0.134	0.0491	0.514	0.385	0.167	0.0567	0.404	0.324	0.0765

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Panel B: Market Leverage Measure, Acquired Investments

	Event Window: $\tau = 0$				Event Window: $\tau = [0, +1]$				Event Window: $\tau = [-1, +1]$			
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
Dependent Variable	Debt	Equity	Cash-flow	Other	Debt	Equity	Cashflow	Other	Debt	Equity	Cashflow	Other
DEV	0.452	-0.141	-0.192	-0.123	0.685	-0.272	-0.265	-0.129	0.845	-0.468	-0.0581	-0.306
	0%	34%	7%	45%	0%	3%	2%	39%	0%	0%	58%	5%
Profit	-0.106	-0.804	1.47	-0.562	-0.079	-0.744	0.977	-0.14	-0.193	-0.883	1.26	-0.179
	37%	0%	0%	0%	54%	0%	0%	47%	4%	0%	0%	22%
Size	1.03	-5.13	0.453	3.74	-0.234	-5.3	2.29	3.33	-.00011	-7.61	1.03	6.47
	33%	0%	66%	2%	82%	0%	5%	3%	100%	0%	33%	0%
INV_TA	0.0778	-0.0518	-0.0317	0.0057	-0.007	-0.0987	-0.169	0.267	-0.0626	-0.192	-0.581	0.807
	1%	23%	29%	90%	88%	9%	0%	0%	40%	6%	0%	0%
FA_TA	0.108	-0.213	0.1	0.0154	-0.043	-0.19	0.167	0.0493	-0.0367	-0.151	0.2	-0.0229
	3%	0%	4%	84%	36%	0%	0%	49%	44%	2%	0%	75%
Runup (over 12 mnths pre-event)	-0.0726	0.36	0.155	-0.441	-0.027	0.284	0.0328	-0.276	0.0299	0.146	-0.0125	-0.15
	3%	0%	0%	0%	41%	0%	37%	0%	41%	0%	74%	1%
Q	-0.865	4.03	-0.812	-2.37	0.041	2.23	-0.00838	-2.28	0.0052	2.78	-0.587	-2.17
	5%	0%	6%	0%	93%	0%	99%	0%	99%	0%	23%	0%
Nobs	758	765	766	757	627	627	627	627	570	570	570	570
$\overline{R}^2$	0.0663	0.243	0.266	0.121	0.087	0.253	0.131	0.11	0.153	0.281	0.316	0.131

Figure 1: Financing Patterns for Firms with Built and Acquired Investment Differentiated by Size

The figure shows the median proportions of financing sources as a proportion of total investment expenditures in the event year ($\tau=0$). The size classes are based on total assets of the universe of COMPUSTAT firms as defined in Section 3. *Equity* is financing from the net sale of common and preferred stock, *Debt* is financing from new long- and short-term debt, and *Cashflow* is payment out of the firm's operating cash-flows.
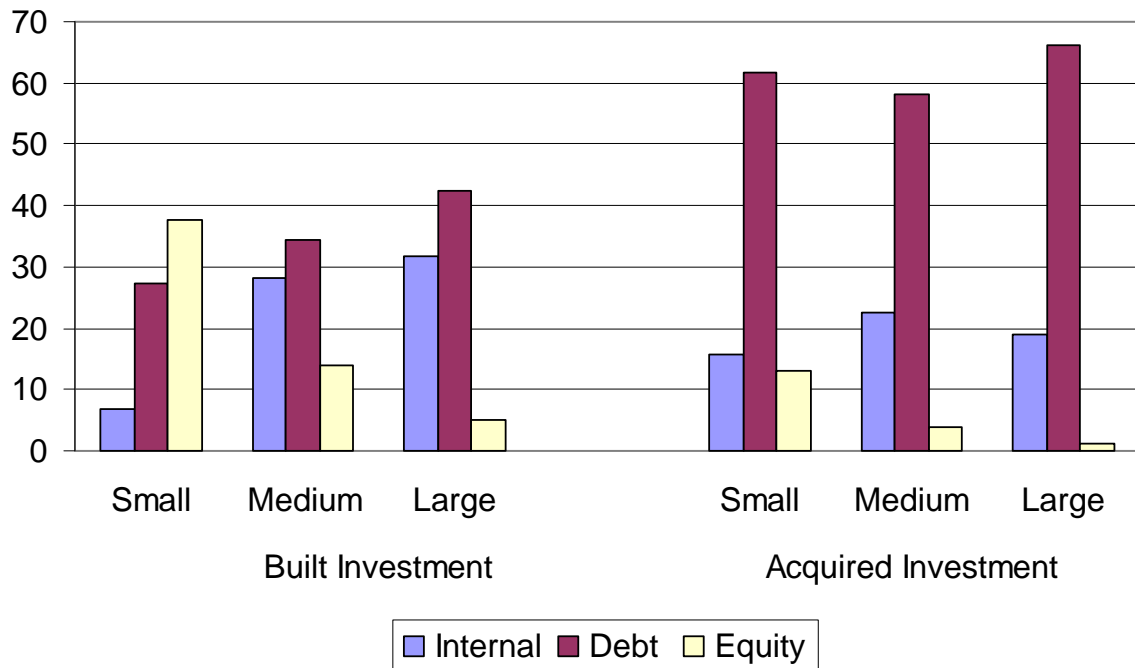
Appendix: Construction of Cash-Flow Financing Measures

The following table shows the exact definition of our financing measures. The scheme is based on Compustat's "Statement of Cash Flows," chapter 4 of the 2001 User's Manual, pp. 15-16. Following Mayer and Sussman [2005], we assign zero values for missing data when a more aggregated item is present. For example, if there is a missing value for change in inventories (item 303), but the higher aggregate of operating activities – net cash flow (item 308) has a non-missing value, then we infer a zero value for change in inventories.

Sign	Definition	Compustat Data Item
Invest		
+ ??	Capital expenditures ("Built")	128
+ ??	Acquisitions ("Acquired")	129
Debt		
+	Issuance of long-term debt	111
-	Retirement of long-term debt	114
+	Change in current debt	301
Equity		
+	Sale of equity	108
-	Purchase of equity	115
INTERNAL *Cashflow* (from operations)		
+	After tax income before extraordinary items	123
+	Depreciation and amortization	125
-	Cash dividends	127
Other		
+	Sale of property, plant, equipment (book value)	107
+	Loss (gain) in sale of PPE and investments	213

Continued …

+	Change in account payables and accrued liabilities	304
+	Change in accrued income taxes	305
+	Equity in net loss (earnings)	106
+	Extraordinary items	124
+	Other funds from operations	217
+	Exchange rate effect	314
+	Change in receivables	302
+	Deferred tax	126
+	Change in other assets and liabilities	307
+	Other financing	312
+	Other investment	310
-	Increase in investment	113
+	Sale of investment	109
+	Increase in short-term investment	309
-	Change in cash and equivalent	274
+	Change in inventory	303