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KZ

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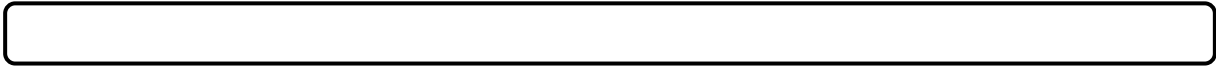
KZ

Kaplan, Zingales ()

KZ

KZ

Q KZ :



KZ

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(traditional approach)

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(static trade off)



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(Tobin)

KZ

KZ

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Petersen

Fazzari Hubbard

) KZ

(Kaplan, Zingales

[] (Stewart C. Myers)

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«(Optimum Capital Structure)

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(pecking order)

(static trade off)

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[] (Barro)

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(Trade off)

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(Agency Theory)

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NYSE

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(cross-sectional)

Stein

K ()

() F(K)

F(0)

r

$\frac{F(K)}{1+r} - K$ (NPV)

K^{fb}

$\frac{F(K^{fb})}{1+r} = 1$

(δ)

$\delta >$

$\delta >$

$$w - k^{ec}(1 - \bar{D}) < 0 \quad (K^{fb})$$

$$e = k^{ec}(1 - \bar{D}) - w > 0 \quad k = k^{ec}$$

$$e \leq e_{max}$$

(b)

$$e + W - K(1 - \bar{D}) \geq 0 \quad ($$

$$w - k^{ec}(1 - \bar{D}) \geq 0$$

W

$$e = 0, k = \frac{w}{(1 - \bar{D})}$$

\bar{D}

(a)

\bar{D}

$$\text{Max}_{e,k} \frac{F(K)}{1+r} - K + \delta e \quad ($$

Subject to:

$$e + W - K(1 - \bar{D}) \geq 0 \quad ($$

$$0 \leq e \leq e_{max} \quad ($$

$$w < k^{fb}(1 - \bar{D}) \quad ($$

)

»

(

« Q

Q

$$w - k^{fb}(1 - \bar{D}) < 0 \quad \delta < 0$$

$$k < k^{fb}$$

(a)

(Q)

KZ

(δ)

«

(\bar{D})

KZ

$$\frac{f'(k^{ec})}{1+r} = 1 - \delta(1 - \bar{D})$$

k^{ec}

Kec

)



»
$$\frac{CAPX_{it}}{A_{it-1}} = a_i + a_t + b_i Q_{it-1} + c \frac{CF_{it}}{A_{it-1}} + u_{it} \quad ($$

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Q

KZ

(b) Q

H₀ :

KZ

(b) Q

H₁ :

Q

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Q

KZ

:

$$\frac{e_{it}}{A_{it-1}} = a_i + a_t + b Q_{it-1} + c \frac{CF_{it}}{A_{it-1}} + u_{it}$$

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KZ

(b) Q

:H₀

KZ

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KZ

(b) Q

:H₁

KZ

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$$\frac{CAPX_{it}}{A_{it-1}} = a_i + b_i R_{it,t+3} + c \frac{CF_{it}}{A_{it-1}} + u_{it} \quad ($$

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KZ

(b)

:H₀

KZ

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$$\frac{e_{it}}{A_{it-1}} = a_i + a_t + b R_{it,t+3} + c \frac{CF_{it}}{A_{it-1}} + u_{it} \quad ($$

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(b)

:H₁

KZ

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(b)

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KZ

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(b)

:H₁

KZ



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KZ

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$$\frac{e_{it} + d_{it}}{A_{it-1}} = a_i + a_t + bQ_{it-1} + C \frac{CF_{it}}{A_{it-1}} + u_{it} \quad ($$

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KZ (b) Q

:H₀

KZ (b) Q

:H₁

[]

, Zingales Kaplan

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KZ

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$$\frac{e_{it} + d_{it}}{A_{it-1}} = a_i + a_t + bR_{it,t+3} + C \frac{CF_{it}}{A_{it-1}} + u_{it} \quad ($$

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(b)

:H₀

KZ

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(b)

:H₁

KZ

Q

Lamont Polk Sea-Requejo
Kaplan Zingales

$$W(K_{fb}(1-\bar{D})) \quad ($$

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Polk Saa-Requejo (Kaplan,Zingales)KZ Lamont

(Kaplan,Zingales)KZ

: KZ

$$t \frac{CF_{it}}{A_{it-1}}$$

$$t \frac{DiV_{it}}{A_{it-1}}$$

$$t \frac{C_{it}}{A_{it-1}}$$

$$LeV_{it} \frac{CAPX_{it}}{A_{it-1}}$$

Q Q

$$Q (\delta)$$

$$Q \frac{e_{it}}{A_{it-1}}$$

KZ []

$$Q \frac{e_{it} + d_{it}}{A_{it-1}}$$



KZ
AGE_{IT}

$$\delta \left(\frac{CF}{A} \right)_i$$

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(cross-sectional)

$$\frac{Div_{it}}{A_{it-1}} \quad Lev \quad \frac{CF_{it}}{A_{it-1}} \quad \frac{C_{it}}{A_{it-1}} \quad KZ$$

Clustering

SAS

(KZ)

| | | |
|---------------------------------|------|---|
| Financial Constraint | FC | 1 |
| Likely Financial Constraint | LFC | 2 |
| Possibly Financial Constraint | PFC | 3 |
| Likely Not Financial Constraint | LNFC | 4 |
| Not Financial Constraint | NFC | 5 |

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KZ

(FC)

(NFC)

KZ

(FC)

KZ

(NFC)

KZ

KZ5 KZ1

Q

KZ

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$$KZ_{IR} = +2.85351 \frac{C_{it}}{A_{it-1}} - 0.02605 \frac{CF_{it}}{A_{it-1}} + 4.11457 \frac{Div_{it}}{A_{it-1}} + 2.22050 Lev_{it}$$

KZ_{IR}

KZ

Q

PFC LFC



KZ

KZ

KZ

SAS

/ (R)

F

$$/ \quad \frac{C_{it}}{A_{it-1}} \quad \frac{CF_{it}}{A_{it-1}} \quad \frac{Div_{it}}{A_{it-1}} \quad Lev_{it}$$

t

CF Div Lev

KZ

C

KZ

KZ

| CF | | | | C | | | | |
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| Lev | | | | Div | | | |
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KZ

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KZ :

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Q (b)
 (quintile 1) FC (quintile 5) NFC
 (FC)

t Q
 H₀

Cash flow

(c)

Cash flow

$$\frac{CAPX_{it}}{A_{it-1}} = a_i + a_t + b_i Q_{it-1} + c \frac{CF_{it}}{A_{it-1}} + u_{it}$$

(R²)

() Q
 KZ

| . | . | . | . | . | | capx |
|---|---|---|---|---|---|------------|
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| . | . | . | . | . | | antilag3_r |
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(b) β

KZ

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(R²)

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Q

t

(b) β

KZ

t

:

(b) β

$$\frac{CAPX_{it}}{A_{it-1}} = \alpha_i + \alpha_t + bR_{it,t+3} + c\frac{CF_{it}}{A_{it-1}} + u_{it} \quad ($$

$$\frac{CF_t}{A_{t-1}}$$

Q_{it-1}

R_{it,t+3}

R_{it,t+3}

t

i

t

t+3

t

Wurgler Stein,Baker

H₀

KZ

KZ

(b)

(b) β



(b)

b

« » « »

KZ

(β) b

:

$$\text{Financing}_{it} = \alpha_i + \alpha_t + bQ_{it-1} + c \frac{CF_{it}}{A_{it-1}} + u_{it}$$

(

KZ

Q

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KZ

KZ

KZ

(R_{it,t+3})

t

b

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KZ

cf

KZ



t (c)

KZ (b)

(c)

cf

$$\text{Financing}_{it} = \alpha_i + \alpha_t + bR_{it, t+3} + c \frac{CF_{it}}{A_{it-1}} + u_{it} \quad ($$

KZ

()

$$\frac{e_{it} + d_{it}}{A_{it-1}} = \alpha_i + \alpha_t + bQ_{it-1} + c \frac{CF_{it}}{A_{it-1}} + u_{it} \quad (\quad / \quad / \quad / \quad / \quad (R^2)$$

() Q

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| R ² | CFt/A _{t-1} | | Q _{t-1} | | N | KZ index |
|----------------|----------------------|---|------------------|---|---|------------|
| | (t-stat) | c | (t-stat) | b | | |
| . | [.] | . | [.] | . | | Quintile 1 |
| . | [.] | . | [.] | . | | Quintile 2 |
| . | [.] | . | [.] | . | | Quintile 3 |
| . | [.] | . | [.] | . | | Quintile 4 |
| . | [.] | . | [.] | . | | Quintile 5 |

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| R ² | CF/A _{t-1} | | R _{t, t+3} | | N | KZ index |
|----------------|---------------------|---|---------------------|---|---|------------|
| | (t-stat) | c | (t-stat) | b | | |
| . | [.] | . | [.] | . | | Quintile 1 |
| . | [.] | . | [.] | . | | Quintile 2 |
| . | [.] | . | [.] | . | | Quintile 3 |
| . | [.] | . | [.] | . | | Quintile 4 |
| . | [.] | . | [.] | . | | Quintile 5 |



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| R ² | CF _t /A _{t-1} | | Q _{t-1} | | N | KZ index |
|----------------|-----------------------------------|---|------------------|---|---|------------|
| | (t-stat) | c | (t-stat) | b | | |
| . | [.] | . | [.] | . | | Quintile 1 |
| . | [.] | . | [.] | . | | Quintile 2 |
| . | [.] | . | [.] | . | | Quintile 3 |
| . | [.] | . | [.] | . | | Quintile 4 |
| . | [.] | . | [.] | . | | Quintile 5 |

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| R ² | CF _t /A _{t-1} | | R _{it,t+3} | | N | KZ index |
|----------------|-----------------------------------|---|---------------------|---|---|------------|
| | (t-stat) | c | (t-stat) | b | | |
| . | [.] | . | [.] | . | | Quintile 1 |
| . | [.] | . | [.] | . | | Quintile 2 |
| . | [.] | . | [.] | . | | Quintile 3 |
| . | [.] | . | [.] | . | | Quintile 4 |
| . | [.] | . | [.] | . | | Quintile 5 |

(R²)

/ / / / /

(b)

KZ

t

(R²)

/ / / /

R²

/

KZ

(b) Q

KZ

(b)

KZ

(c)

(c)

$$\frac{e_{it} + d_{it}}{A_{it-1}} = \alpha_i + \alpha_t + bR_{it-1} + c \frac{CF_{it}}{A_{it-1}} + u_{it}$$

KZ

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» : « (c) H₀

(R_{it}) Q

: KZ :

b

Q

Q

cf

Q

cf

cf

KZ

cf

(Q)

Q

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cf

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H₀

KZ

H₁

cf

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Q

Q

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