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$$CSSD_t = \alpha + \beta_L D_t^L + \beta_U D_t^U + \varepsilon_t \quad ()$$

$$\begin{aligned}
 & \dots t & : CSSD_t \\
 & \dots & : D_t^L \\
 & \dots t & D_t^L = 1
 \end{aligned}$$

$$\begin{aligned}
 & \dots & : D_t^U \\
 & \dots t & D_t^U = 1
 \end{aligned}$$

: α

$$x \quad Z_{\frac{\alpha}{2}} = \frac{x - \mu}{\sigma}$$

$$x_1 = \mu + (Z_{\frac{\alpha}{2}} \times \sigma)$$

$$x_2 = \mu - (Z_{\frac{\alpha}{2}} \times \sigma)$$

$$\begin{matrix}
 x_1 & & D_t^l & D_t^u \\
 & & & \\
 & & x_2 &
 \end{matrix}$$

$$(Z_{\frac{\alpha}{2}} \quad \alpha) \quad . []$$

$$\begin{matrix}
 (&) & \beta_l & . \\
 & (&) & \beta_u
 \end{matrix}$$

$$\begin{matrix}
 (&) & (&) \\
 CH & . & &
 \end{matrix}$$

$$CSSD_t = \sqrt{\frac{\sum_{i=1}^N (R_{i,t} - R_{m,t})^2}{N-1}} \quad ()$$

t : $CSSD_t$
 t : $R_{i,t}$
 t : $R_{m,t}$
 t : N

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$$CASD_t = \frac{1}{N} \sum_{i=1}^N |R_{i,t} - R_{m,t}|$$

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$$CASD_t = \frac{1}{N} \sum_{i=1}^N |R_{i,t} - R_{m,t}| \quad ()$$

t

:CASD_t

t

i

:R_{i,t}

t

N

:R_{m,t}

t

:N

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$$CSAD_t = \alpha + \gamma_1 |R_{m,t}| + \gamma_2 R_{m,t}^2 + \varepsilon_t \quad ()$$

t

:|R_{m,t}|

.t

:(R_{m,t})²

:α

|R_{m,t}|

γ₁

$$(R_{m,t})^2 = \gamma_2 \left(\dots \right)$$

$$\left(\gamma_2^{down} \dots \gamma_2^{up} \dots \right)$$

$$CSAD_t^{up} = \alpha + \gamma_1^{up} |R_{m,t}^{up}| + \gamma_2^{up} (R_{m,t}^{up})^2 + \varepsilon_t, \text{ if } R_{m,t} > 0$$

$$R_{m,t}^{up} \quad t \quad N \quad : R_{m,t}^{up} \quad : (R_{m,t}^{up})^2 \quad CSAD : CSAD_t^{up}$$

:()

$$CSAD_t^{down} = \alpha + \gamma_1^{down} |R_{m,t}^{down}| + \gamma_2^{down} (R_{m,t}^{down})^2 + \varepsilon_t, \text{ if } R_{m,t} < 0$$

t N : $R_{m,t}^{down}$

: $(R_{m,t}^{down})^2$

$R_{m,t}^{down}$ t CSAD : $CSAD_t^{down}$

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t

N

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$$R_{i,t} = \frac{P_{it} - P_{it-1}}{P_{it-1}} + \frac{(D_{it1} + D_{it2} + D_{it3} + D_{it4})}{P_{it-1}}$$

$$R_{m,t} = \frac{P_t - P_{t-1}}{P_t}$$

:

: $R_{m,t}$

t : P_t
 .t-1 : P_{t-1}

$$\begin{aligned} & () \quad CSAD_t^{up} \quad R_{m,t}^{up} \\ () \quad CSAD_t^{down} \quad R_{m,t}^{down} \end{aligned}$$

$$() \quad (D_t^U \quad D_t^L)$$

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%	CSSD _t	R _{m,t}	%	%	%	CSSD _t	R _{m,t}		
	/	/				/	/		
	/	/				/	/		
	/	/				/	/		
								D _t ^U	
								D _t ^L	

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/	/	/	/		R _{m,t}
/	/	/	/		CSAD _t
/	/	/	/		R _{m,t} ^{up}
/	/	/	/		R _{m,t} ^{down}
/	/	/	/		CSAD _t ^{up}
/	/	/	/		CSAD _t ^{down}

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$$CSSD_t = \alpha + \beta_U D_t^U + \beta_L D_t^L + \varepsilon_t$$

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D_t^L D_t^U

 D_t^l D_t^u

$$CSSD_t = \alpha + \beta_U D_t^U + \beta_L D_t^L + \varepsilon_t \quad : ()$$

Adjusted R-squared	F-statistic	β^l	β^u	α	
/	/	/	/	/	
		(/)*	(/)*	(/)*	
/	/	/	/	/	
		(/)*	(/)*	(/)*	
/	/	/	/	/	
		(/)*	(/)*	(/)*	
/	/	/	/	/	
		(/)	(/)*	(/)*	

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 D_t^l D_t^l D_t^u D_t^u

$$\begin{array}{ccc}
 & / & D_t^l \\
 & & D_t^l \\
 & & : \\
 & & D_t^l
 \end{array}$$

$$CSAD_t = \alpha + \gamma_1 |R_{m,t}| + \gamma_2 R_{m,t}^2 + \varepsilon_t$$

$$CSAD_t^{up} = \alpha + \gamma_1^{up} |R_{m,t}^{up}| + \gamma_2^{up} (R_{m,t}^{up})^2 + \varepsilon_t$$

$$CSAD_t^{down} = \alpha + \gamma_1^{down} |R_{m,t}^{down}| + \gamma_2^{down} (R_{m,t}^{down})^2 + \varepsilon_t$$

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$$|R_{m,t}|$$

/

$$(R_{m,t})^2$$

$$(R_{m,t})^2$$

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DOWN	UP		
/	/	/	α
(/)*	(/)*	(/)*	
/	/	/	γ_1
(/)*	(/)*	(/)*	
/	/	/	γ_2
(/)*	(/)*	(/)*	
/	/	/	F-statistic
/	/	/	Adjusted R-squared

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$|R_{m,t}|$

$(R_{m,t})^2$

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DOWN	UP		
/	/	/	α
(/)*	(/)*	(/)*	
/	/	/	γ_1
(/)*	(/)*	(/)*	
/	/	/	γ_2
(/)	(/)*	(/)*	
/	/	/	F-statistic
/	/	/	Adjusted R-squared
DOWN	UP		
/	/	/	α
(/)*	(/)*	(/)*	
/	/	/	γ_1
(/)	(/)*	(/)*	
/	/	/	γ_2
(/)	(/)*	(/)*	
/	/	/	F-statistic
/	/	/	Adjusted R-squared

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