

### PUT-CALL PARITY (PCP)

#### Prepaid Forward & Forward

$$F_{t,T}(S) = F_{t,T}^P(S) - e^{-r(T-t)}$$

Dividend Structure	$F_{t,T}^P(S)$
No	$S_t$
Discrete	$S_t - PV(\text{Divs})$
Continuous	$S_t e^{-\delta(T-t)}$

Dividend Structure	$F_{t,T}(S)$
No	$S_t e^{-(r-\delta)(T-t)}$
Discrete	$S_t e^{-(r-\delta)(T-t)} - AV(\text{Divs})$
Continuous	$S_t e^{-(r-\delta)(T-t)}$

#### PCP for Stock

$$C - P = F_{t,T}^P(S) - Ke^{-r(T-t)}$$

#### PCP for Exchange Option

$C(A, B)$	$P(A, B)$
receive A, give up B	give up A, receive B

$$C(A, B) - P(A, B) = F_{t,T}^P(A) - F_{t,T}^P(B)$$

$$C(A, B) = P(B, A)$$

#### PCP for Currency Exchange

$$S_0 \rightarrow x_0, r \rightarrow r_f, \delta \rightarrow r_f$$

$$C(x_0, K) = P(x_0, K) = x_0 e^{-r_f T} - Ke^{-rT}$$

$$C_2(x_0, K) = x_0 \cdot K \cdot P_f\left(\frac{r}{r_f}, \frac{r}{r_f}\right) \text{ where } x_0 \text{ is in } d/f$$

#### PCP for Bonds

$$C - P = B_t - PV_{t,T}(\text{Coupons}) - Ke^{-r(T-t)}$$

$$B_t = \text{Bond price at time } t$$

### COMPARING OPTIONS

#### Bounds for Option Prices

##### Call and Put

$$S \geq C_{lower} \geq C_{upper} \geq \max(0, F^P(S) - Ke^{-rT})$$

$$K \geq P_{lower} \geq P_{upper} \geq \max(0, Ke^{-rT} - F^P(S))$$

##### European vs. American Call

$$F^P(S) \geq C_{lower} \geq \max(0, F^P(S) - Ke^{-rT})$$

$$S \geq C_{lower} \geq \max(0, S - K)$$

##### European vs. American Put

$$Ke^{-rT} \geq P_{lower} \geq \max(0, Ke^{-rT} - F^P(S))$$

$$K \geq P_{lower} \geq \max(0, K - S)$$

##### Early Exercise of American Option

##### American Call

###### Nondividend-paying stock

- Early exercise is never optimal.
- $C_{lower} = C_{upper}$

###### Dividend-paying stock

- Early exercise is not optimal if  $PV(\text{Dividends}) < PV(\text{Interest on the strike}) + \text{Implicit Put}$

##### American Put

###### Early exercise is not optimal if

$$PV(\text{Interest on the strike}) < PV(\text{Dividends}) + \text{Implicit Call}$$

#### Different Strike Prices

$$\text{For } K_1 < K_2 < K_3:$$

##### Call

- $C(K_1) > C(K_2) > C(K_3)$
- $C(K_1) - C(K_2) < K_2 - K_1$
- European:  $C(K_1) - C(K_2) < PV(K_2 - K_1)$
- $\frac{C(K_1) - C(K_2)}{K_1 - K_2} > \frac{C(K_2) - C(K_3)}{K_2 - K_3}$

#### Put

- $P(K_1) < P(K_2) < P(K_3)$
- $P(K_1) - P(K_2) < K_2 - K_1$
- European:  $P(K_1) - P(K_2) < PV(K_2 - K_1)$
- $\frac{P(K_1) - P(K_2)}{K_1 - K_2} < \frac{P(K_2) - P(K_3)}{K_2 - K_3}$

### BINOMIAL MODEL

#### Replicating Portfolio

An option can be replicated by buying  $\Delta$  shares of the underlying stock and lending  $B$  at the risk-free rate.

$$\Delta = e^{-rt} \left( \frac{V_u - V_d}{S(u - d)} \right) \quad B = e^{-rt} \left( \frac{uV_d - dV_u}{u - d} \right)$$

$$V = \Delta S + B$$

	Call	Put
$\Delta$	+	-
$B$	-	+

#### Risk-neutral Probability Pricing

$$e^{(r-\delta)(T-t)} - d$$

$$p^* = \frac{u - d}{u - d}$$

$$V = e^{-rt} [p^* V_u + (1 - p^*) V_d]$$

$$S_0 e^{(r-\delta)T} = (p^*) S_u + (1 - p^*) S_d$$

#### Realistic Probability Pricing

$$e^{(r-\delta)(T-t)} - d$$

$$p = \frac{u - d}{u - d}$$

$$V = e^{-rt} [p V_u + (1 - p) V_d]$$

$$S_0 e^{(r-\delta)T} = (p) S_u + (1 - p) S_d$$

$$e^{rt} = \frac{\Delta S}{V} e^{rt} + \frac{B}{V} e^{rt}$$

#### Standard Binomial Tree (Forward Tree)

$$u = e^{(r-\delta)\Delta t + \sigma\sqrt{\Delta t}} \quad d = e^{(r-\delta)\Delta t - \sigma\sqrt{\Delta t}}$$

$$p^* = \frac{e^{(r-\delta)\Delta t} - d}{u - d} = \frac{1}{1 + e^{\sigma\sqrt{\Delta t}}}$$

$$Cox-Ross-Rubinstein Tree$$

$$u = e^{\sigma\sqrt{\Delta t}} \quad d = e^{-\sigma\sqrt{\Delta t}}$$

#### Lognormal Tree (Jarrow-Rudd Tree)

$$u = e^{(r-\delta-\frac{1}{2}\sigma^2)\Delta t + \sigma\sqrt{\Delta t}} \quad d = e^{(r-\delta-\frac{1}{2}\sigma^2)\Delta t - \sigma\sqrt{\Delta t}}$$

#### No-Arbitrage Condition

Arbitrage is possible if the following inequality is not satisfied:

$$d < e^{(r-\delta)\Delta t} < u$$

#### Option on Currencies

$$S_0 \rightarrow x_0, r \rightarrow r_f, \delta \rightarrow r_f$$

$$u = e^{(r_f - r)\Delta t + \sigma\sqrt{\Delta t}} \quad d = e^{(r_f - r)\Delta t - \sigma\sqrt{\Delta t}}$$

$$p^* = \frac{e^{(r_f - r)\Delta t} - d}{u - d}$$

$$u = d$$

#### Option on Futures Contracts

$$F_{t,T} = S_t e^{(r-f)(T-t)}$$

$$T = \text{Expiration date of the option}$$

$$T_f = \text{Expiration date of the futures contract}$$

$$T \leq T_f$$

$$S_t \rightarrow F_{t,T_f}, \delta \rightarrow r$$

$$p^* = \frac{1 - d_f}{u_f - d_f} \quad d = \frac{V_u - V_d}{F(u_f - d_f)}$$

$$B = e^{-rt} [p^* V_u + (1 - p^*) V_d]$$

#### Utility Values and State Prices

$U_u$ : Utility value per dollar in the up state

$U_d$ : Utility value per dollar in the down state

$$Q_u = p U_u = p^* e^{-rt}$$

$$Q_d = (1 - p) U_d = (1 - p^*) e^{-rt}$$

$$e^{-rt} = Q_u + Q_d$$

$$S = Q_u S_u e^{rt} + Q_d S_d e^{rt}$$

$$V = Q_u V_u + Q_d V_d$$

$$p^* = \frac{Q_u}{Q_u + Q_d}$$

$$r = R, r_{max} = R_{max}$$

$$r_{min} \leq r \leq R \leq r_{max}$$

### LOGNORMAL MODEL

#### Lognormal Model for Stock Prices

$$X \sim N(m, v^2), \text{ so } V = e^X \sim \text{LogN}(m, v^2)$$

$$E[V] = e^{m + \frac{1}{2}v^2}$$

$$\text{Var}[V] = (E[V]^2)(e^{v^2} - 1)$$

$$\text{For } T > t, \ln\left[\frac{S_T}{S_t}\right] \sim N(m, v^2)$$

$$m = (r - \delta - 0.5\sigma^2)(T - t)$$

$$v^2 = \sigma^2(T - t)$$

$$E[S_T | S_t] = S_t e^{(r-\delta)(T-t)}$$

$$\text{Var}[S_T | S_t] = (E[S_T | S_t])^2 (e^{v^2} - 1)$$

$$S_T = S_t e^{(r-\delta-\frac{1}{2}\sigma^2)(T-t) + \sigma\sqrt{T-t}Z}, Z \sim N(0,1)$$

$$\text{Median} = S_t e^{(r-\delta-\frac{1}{2}\sigma^2)(T-t)}$$

#### Covariance

$$\text{Corr}(S_t, S_T) = E\left[\frac{S_T}{S_t}\right] - \text{Var}[S_t | S_t]$$

$$\text{Corr}(S_t, S_T) = E\left[\frac{S_T}{S_t}\right] - \text{Var}[S_t | S_t]$$

$$\text{Corr}(S_t, S_T) = E\left[\frac{S_T}{S_t}\right] - \text{Var}[S_t | S_t]$$

#### Probability

$$\Pr[S_T < K] = N(-\hat{d}_1) \quad \Pr[S_T > K] = N(+\hat{d}_1)$$

$$\hat{d}_1 = \frac{\ln\left(\frac{S_t}{K}\right) + (r - \delta + 0.5\sigma^2)(T - t)}{\sigma\sqrt{T - t}}$$

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