$B(0,3) = 0.09927$

$r(0) = 4.11\%$

$B(1,3;u) = 0.9962$

$r(1;u) = 2.4\%$

$B(1,3;d) = 0.9959$

$r(1;d) = 3\%$

$B(2,3;u^2) = 0.9991$

$B(2,3;ud) = 0.9960$

$B(2,3;du) = 0.9986$

$B(2,3;d^2) = 0.9969$