

Errors in Theta calculation on the TOS platform Tuesday before expiration October 13th

Position	Time Premium	TOS Theta	Approximation Theta	Error	
GLD	\$25	-28.88	-8.33	\$20	*
GOOG OCT	\$11,300	1,768.41	3,729	\$1,960.89	
IBM OCT	\$75	63.44	25	\$38.49	***
RUT 570 Puts	\$525	-433.42	-175	350	
RUT 610 Puts	\$5,400	1,195.53	1,800	604.47	
RUT 620 Calls	\$3,350	981.24	1116.66	198.42	
RUT 660 Calls	\$75	-98.42	-25	73.42	
SPX 1040 Puts	\$2,000	-1051	-666.66	384.33	
SPX 1045 Puts	\$2,575	1186.54	858.33	328.21	
SPX 1105 Calls	\$950	634.10	316.66	317.43	
SPX 1110 Calls	\$675	-514.74	-325	172.26	
	26950	3702.8	6645.66		

\* TOS theta is higher than position value!!

\*\*\*Tos shows position total theta positive – corrected position is theta negative!!

POSITION STATEMENT Click to setup group Reset Groups Return To Old Layout Reset All Positions

Group:  Arrange Positions:    Beta Weighting  NOT WEIGHTED

Equities and Equity Options												
Instrument	Qty	Days	Delta	Gamma	Theta	Vega	Trade Price	Mark	Mark Chng	P/L Open	P/L Day	BP Effect
GLD												
GLD			-13.84	6.65	-28.83	3.87				(\$25.00)	(\$25.00)	\$0.00
SPDR GOLD SHARES	0		.00	.00	.00	.00	.00	103.96	.40	\$0.00	\$0.00	
100 OCT 09 93 PUT	+10	3	-13.84	6.65	-28.83	3.87	.05	.025	0	(\$25.00)	(\$25.00)	
Selected Totals												
GOOG			33.93	-3.80	1484.65	464.77				\$150.00	\$150.00	\$0.00
Google Inc.	0		.00	.00	.00	.00	.00	523.34	-.70	\$0.00	\$0.00	
100 OCT 09 530 CALL	-10	3	-440.35	-11.01	1768.11	-216.04	11.80	11.30	-.60	\$500.00	\$500.00	
100 NOV 09 530 CALL	+10	38	474.27	7.21	-283.45	680.82	19.40	19.05	-.50	(\$350.00)	(\$350.00)	
Selected Totals												
IBM			-113.38	8.85	28.69	84.65				(\$25.00)	(\$25.00)	\$0.00
International Business...	0		.00	.00	.00	.00	.00	126.59	-.45	\$0.00	\$0.00	
100 OCT 09 115 PUT	-10	3	29.92	-10.40	63.49	-9.04	.05	.075	-.05	(\$25.00)	(\$25.00)	
100 NOV 09 115 PUT	+10	38	-143.30	19.24	-34.80	93.69	.90	.90	.025	\$0.00	\$0.00	
Selected Totals												
RUT			84.95	-38.90	1622.33	-347.75				(\$200.00)	(\$200.00)	(\$40,000.00)
RUSSELL 2000 INDEX	0		.00	.00	.00	.00	.00	612.17	-1.64	\$0.00	\$0.00	
100 OCT 09 570 PUT	+10	2	-47.17	3.72	-434.05	54.62	.55	.525	-.075	(\$25.00)	(\$25.00)	
100 OCT 09 610 PUT	-10	2	445.07	-22.36	1162.19	-219.23	5.40	6.00	.15	(\$600.00)	(\$600.00)	
100 OCT 09 620 CALL	-10	2	-324.17	-21.74	992.56	-199.47	3.90	3.45	-.95	\$450.00	\$450.00	
100 OCT 09 660 CALL	+10	2	11.22	1.47	-98.37	16.34	.10	.075	0	(\$25.00)	(\$25.00)	
Selected Totals												
SPX			11.29	-2.88	204.27	-59.65				\$25.00	\$25.00	(\$5,000.00)
S&P 500 INDEX	0		.00	.00	.00	.00	.00	1072.04	-4.15	\$0.00	\$0.00	
100 OCT 09 1040 PUT	+10	2	-132.72	7.25	-1057.58	208.50	1.70	2.00	.125	\$300.00	\$300.00	
100 OCT 09 1045 PUT	-10	2	164.13	-8.70	1170.61	-240.35	2.15	2.50	.20	(\$350.00)	(\$350.00)	
100 OCT 09 1105 CALL	-10	2	-87.69	-6.71	631.01	-154.75	.90	.95	-.20	(\$50.00)	(\$50.00)	
100 OCT 09 1110 CALL	+10	2	67.58	5.28	-539.78	126.96	.60	.725	-.075	\$125.00	\$125.00	
Selected Totals												
Subtotals			2.95	-30.09	3311.12	145.90				(\$75.00)	(\$75.00)	(\$45,000.00)
Overall Totals										(\$75.00)	(\$75.00)	(\$45,000.00)

CASH: \*\*\*\*\*  
OVERALL P/L YTD: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*

ACCOUNT STATUS: OK TO TRADE

FOREX CASH WITH UPL: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*

Errors in Theta calculation on the TOS platform Wednesday before expiration October 14th

Position	Time Premium	TOS Theta	Approximation Theta	Error	
GLD	\$25	-40.54	-8.33	32.21	*
GOOG OCT	\$13,184	2412.54	4,613	2200.46	
IBM OCT	\$75	87.89	25	-62.89	*** and *
RUT 570 Puts	\$175	-284.24	-87.50	196.74	*
RUT 610 Puts	\$3,200	1,365.86	1,600	234.14	
RUT 620 Calls	\$4,050	1,320.33	2,025	704.67	
RUT 660 Calls	\$50	-109.02	-25	84.02	*
SPX 1040 Puts	\$1,000	-1057.88	-500	557.88	*
SPX 1045 Puts	\$1,025	1041.22	512.50	-528.72	*
SPX 1105 Calls	\$1,375	1087.61	662.50	-425.11	
SPX 1110 Calls	\$825	-805.92	-412.50	393.42	
	24984	5017.85	8404.67		

\* TOS theta is higher than position value!!

\*\*\*Tos shows position total theta positive – corrected position is theta negative!!


POSITION STATEMENT

Group: Type Arrange Positions: INSTRUMENT Watch spreads Beta Weighting NOT WEIGHTED

Instrument	Qty	Days	Delta	Gamma	Theta	Vega	Trade Price	Mark	Mark Chng	P/L Open	P/L Day	BP Effect
GLD			-13.54	6.43	-40.54	3.29				(\$25.00)	\$0.00	\$0.00
SPDR GOLD SHARES	0		.00	.00	.00	.00	104.1526		-1.074	\$0.00	\$0.00	
100 OCT 09 93 PUT	+10	2	-13.54	6.43	-40.54	3.29	.05	.025	0	(\$25.00)	\$0.00	
Selected Totals										\$450.00	\$300.00	\$0.00
GOOG			3.26	-3.90	2115.55	489.95						
Google Inc.	0		.00	.00	.00	.00	531.31		+5.20	\$0.00	\$0.00	
100 OCT 09 530 CALL	-10	2	-528.14	-10.95	2412.54	-191.62	11.80	15.15	+2.30	(\$3,350.00)	(\$2,300.00)	
100 NOV 09 530 CALL	+10	37	531.40	7.05	-296.99	681.57	19.40	23.20	+2.60	\$3,800.00	\$2,600.00	
Selected Totals										(\$3,350.00)	(\$2,300.00)	
IBM			-105.46	8.66	53.93	81.19				(\$100.00)	\$25.00	\$0.00
International Business...	0		.00	.00	.00	.00	126.93		-.09	\$0.00	\$0.00	
100 OCT 09 115 PUT	-10	2	29.08	-9.91	87.89	-7.66	.05	.075	0	(\$25.00)	\$0.00	
100 NOV 09 115 PUT	+10	37	-134.54	18.57	-33.96	88.85	.90	825	+0.25	(\$75.00)	\$25.00	
Selected Totals										(\$25.00)	\$0.00	
RUT			-110.26	-48.74	2292.94	-308.02				\$1,625.00	\$875.00	(\$40,000.00)
RUSSELL 2000 INDEX	0		.00	.00	.00	.00	617.03		+5.33	\$0.00	\$0.00	
100 OCT 09 570 PUT	+10	1	-19.56	1.98	-284.24	21.69	.55	.175	-.275	(\$375.00)	(\$275.00)	
100 OCT 09 610 PUT	-10	1	317.77	-23.25	1365.86	-162.80	5.40	3.20	-2.90	\$2,200.00	\$2,900.00	
100 OCT 09 620 CALL	-10	1	-417.71	-28.90	1320.33	-178.27	3.90	4.05	+1.75	(\$150.00)	(\$1,750.00)	
100 OCT 09 660 CALL	+10	1	9.24	1.42	-109.02	11.36	.10	.05	0	(\$50.00)	\$0.00	
Selected Totals										(\$50.00)	\$0.00	
SPX			-40.42	-3.73	265.03	-54.54				\$175.00	\$150.00	(\$5,000.00)
S&P 500 INDEX	0		.00	.00	.00	.00	1083.32		+10.13	\$0.00	\$0.00	
100 OCT 09 1040 PUT	+10	1	-72.61	4.50	-1057.88	110.70	1.70	1.00	-.625	(\$700.00)	(\$625.00)	
100 OCT 09 1045 PUT	-10	1	79.99	-5.30	1041.22	-119.17	2.15	1.025	-1.025	\$1,125.00	\$1,025.00	
100 OCT 09 1105 CALL	-10	1	-139.07	-11.30	1087.61	-177.62	.90	1.375	+5.55	(\$475.00)	(\$550.00)	
100 OCT 09 1110 CALL	+10	1	91.28	8.36	-805.92	131.55	.60	825	+3.0	\$225.00	\$300.00	
Selected Totals										\$225.00	\$300.00	
Subtotals			-266.41	-41.28	4686.92	211.87				\$2,125.00	\$1,350.00	(\$45,000.00)
Overall Totals										\$2,125.00	\$1,350.00	(\$45,000.00)

CASH: \*\*\*\*\*  
OVERALL P/L YTD: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*

FOREX ACCOUNT STATUS: OK TO TRADE  
FOREX CASH WITH UPL: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*



Errors in Theta calculation on the TOS platform Thur before expiration October 15th

Position	Time Premium	TOS Theta	Approximation Theta	Error	
GLD	\$25	-67.47	-12.50	54.97	*
GOOG OCT	\$12,410	3367.63	6,205	2837.37	
IBM OCT	\$25	74.75	12.50	-62.25	*** and *
RUT 570 Puts	\$125	-437.43	-125	312.43	*
RUT 610 Puts	\$1,575	1,852.64	787.50	-1065.14	*
RUT 620 Calls	\$4,150	2,142.19	2,025	-117.19	
RUT 660 Calls	\$25	-116.95	-25	91.95	*
SPX 1040 Puts	\$250	-764.71	-125	639.71	*
SPX 1045 Puts	\$300	856.51	150	-706.51	*
SPX 1105 Calls	\$1,405	2104.04	702.50	-1401.54	*
SPX 1110 Calls	\$950	-1,691.89	-450.00	1241.89	*
	21240	7319.31	9145		

\* TOS theta is higher than position value!!

\*\*\*Tos shows position total theta positive – corrected position is theta negative!!


POSITION STATEMENT Click to setup group    Reset Groups    Return To Old Layout    Reset All Positions

Group: Type    Arrange Positions: INSTRUMENT    Watch spreads     Beta Weighting NOT WEIGHTED

Instrument	Qty	Days	Delta	Gamma	Theta	Vega	Trade Price	Mark	Mark Chng	P/L Open	P/L Day	BP Effect
<b>Equities and Equity Options</b>												
GLD			-14.87	7.39	-67.47	2.89				(\$25.00)	\$0.00	\$0.00
SPDR GOLD SHARES	0		.00	.00	.00	.00	103.39		-79	\$0.00	\$0.00	
100 OCT 09 93 PUT	+10	1	-14.87	7.39	-67.47	2.89	.05	.025	0	(\$25.00)	\$0.00	
Selected Totals												
GOOG			-1.20	-4.71	3061.12	516.39				\$1,550.00	\$350.00	\$0.00
Google Inc.	0		.00	.00	.00	.00	532.2401		-3.0799	\$0.00	\$0.00	
100 OCT 09 530 CALL	-10	1	-539.14	-11.71	3367.63	-156.37	11.80	14.65	-2.15	(\$2,850.00)	\$2,150.00	
100 NOV 09 530 CALL	+10	36	537.94	6.99	-306.52	672.76	19.40	23.80	-1.80	\$4,400.00	(\$1,800.00)	
Selected Totals												
IBM			-106.62	11.40	42.15	78.23				(\$150.00)	\$50.00	\$0.00
International Business...	0		.00	.00	.00	.00	127.85		-50	\$0.00	\$0.00	
100 OCT 09 115 PUT	-10	1	13.07	-5.48	74.75	-3.20	.05	.025	0	\$25.00	\$0.00	
100 NOV 09 115 PUT	+10	36	-119.69	16.88	-32.60	81.43	.90	.725	+05	(\$175.00)	\$50.00	
Selected Totals												
RUT			-286.59	-57.79	3440.44	-207.52				\$3,075.00	\$2,350.00	(\$40,000.00)
RUSSELL 2000 INDEX	0		.00	.00	.00	.00	619.73		-4.21	\$0.00	\$0.00	
100 OCT 09 570 PUT	+10	0	-14.40	1.53	-437.43	11.86	.55	.125	-0.025	(\$425.00)	(\$25.00)	
100 OCT 09 610 PUT	-10	0	216.03	-23.16	1852.64	-95.01	5.40	1.575	-2.25	\$3,825.00	\$225.00	
100 OCT 09 620 CALL	-10	0	-493.58	-37.17	2142.19	-129.35	3.90	4.15	-2.15	(\$250.00)	\$2,150.00	
100 OCT 09 660 CALL	+10	0	5.36	1.01	-116.95	4.98	.10	.025	0	(\$75.00)	\$0.00	
Selected Totals												
SPX			-44.35	-4.33	503.94	-38.39				\$200.00	\$500.00	(\$5,000.00)
S&P 500 INDEX	0		.00	.00	.00	.00	1087.68		-4.34	\$0.00	\$0.00	
100 OCT 09 1040 PUT	+10	0	-26.08	2.40	-764.71	34.46	1.70	.25	-2.25	(\$1,450.00)	(\$225.00)	
100 OCT 09 1045 PUT	-10	0	32.28	-3.05	856.51	-41.15	2.15	.30	-2.25	\$1,850.00	\$225.00	
100 OCT 09 1105 CALL	-10	0	-161.06	-14.20	2104.04	-139.08	.90	1.45	-1.50	(\$550.00)	\$1,500.00	
100 OCT 09 1110 CALL	+10	0	110.51	10.52	-1691.89	107.37	.60	.95	-1.00	\$350.00	(\$1,000.00)	
Selected Totals												
Subtotals										\$4,650.00	\$3,250.00	(\$45,000.00)
Overall Totals										\$4,650.00	\$3,250.00	(\$45,000.00)

ACCOUNT STATUS: OK TO TRADE CASH: \*\*\*\*\*  
OVERALL P/L YTD: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*

FOREX ACCOUNT STATUS OK TO TRADE FOREX CASH WITH UPL: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*



Errors in Theta calculation on the TOS platform Friday before expiration October 16th

Position	Time Premium	TOS Theta	Approximation Theta	Error	
GLD	\$25	-165.13	25	190.13	*
GOOG OCT	\$170	227.74	170	-57.74	*
IBM OCT	\$25	146.73	25	-121.73	
RUT 570 Puts	\$0	0	0	0	
RUT 610 Puts	\$0	0	0	0	
RUT 620 Calls	\$0	0	0	0	
RUT 660 Calls	\$0	0	0	0	
SPX 1040 Puts	\$0	0	0	0	
SPX 1045 Puts	\$0	0	0	0	
SPX 1105 Calls	\$0	0	0	0	
SPX 1110 Calls	\$0	0	0	0	
	220	209.34	220		

\* TOS theta is higher than position value!!

\*\*\*Tos shows position total theta positive – corrected position is theta negative!!


POSITION STATEMENT Click to setup group   Reset Groups   Return To Old Layout   Reset All Positions

Group: Type   Arrange Positions: INSTRUMENT   Watch spreads    Beta Weighting NOT WEIGHTED

Instrument	Qty	Days	Delta	Gamma	Theta	Vega	Trade Price	Mark	Mark Chng	P/L Open	P/L Day	BP Effect	
<b>Equities and Equity Options</b>													
GLD			-16.42	8.49	-165.13	2.21				(\$25.00)	\$0.00	\$0.00	
SPDR GOLD SHARES	0		.00	.00	.00	.00	102.7009		-1591	\$0.00	\$0.00		
100 OCT 09 93 PUT	+10	0	-16.42	8.49	-165.13	2.21	.05	.025	0	(\$25.00)	\$0.00		
Selected Totals											\$3,650.00	\$750.00	\$0.00
<b>GOOG</b>													
Google Inc.	0		.00	.00	.00	.00	546.7801		+16.8701	\$0.00	\$0.00		
100 OCT 09 530 CALL	0		-977.89	-6.20	227.74	-15.08	11.80	16.85	+6.90	(\$5,050.00)	(\$5,900.00)		
100 NOV 09 530 CALL	+10	35	658.73	7.82	-241.41	629.88	19.40	28.10	+6.65	\$8,700.00	\$6,650.00		
Selected Totals											\$350.00	\$475.00	\$0.00
<b>IBM</b>													
International Business...	0		.00	.00	.00	.00	122.25		-5.73	\$0.00	\$0.00		
100 OCT 09 115 PUT	-10	0	20.95	-13.65	146.73	-3.24	.05	.025	0	\$25.00	\$0.00		
100 NOV 09 115 PUT	+10	35	-213.69	30.05	-40.16	111.83	.90	1.225	+4.75	\$325.00	\$475.00		
Selected Totals											\$3,850.00	\$0.00	(\$40,000.00)
<b>RUT</b>													
RUSSELL 2000 INDEX	0		.00	.00	.00	.00	618.31		-5.03	\$0.00	\$0.00		
100 OCT 09 570 PUT	+10	-1	.00	.00	.00	.00	.55	.025	0	(\$525.00)	\$0.00		
100 OCT 09 610 PUT	-10	-1	.00	.00	.00	.00	5.40	.50	0	\$4,900.00	\$0.00		
100 OCT 09 620 CALL	-10	-1	.00	.00	.00	.00	3.90	4.35	0	(\$450.00)	\$0.00		
100 OCT 09 660 CALL	+10	-1	.00	.00	.00	.00	.10	.025	0	(\$75.00)	\$0.00		
Selected Totals											\$250.00	\$0.00	(\$5,000.00)
<b>SPX</b>													
S&P 500 INDEX	0		.00	.00	.00	.00	1087.59		-8.97	\$0.00	\$0.00		
100 OCT 09 1040 PUT	+10	-1	.00	.00	.00	.00	1.70	.10	0	(\$1,600.00)	\$0.00		
100 OCT 09 1045 PUT	-10	-1	.00	.00	.00	.00	2.15	.075	0	\$2,075.00	\$0.00		
100 OCT 09 1105 CALL	-10	-1	.00	.00	.00	.00	.90	.975	0	(\$75.00)	\$0.00		
100 OCT 09 1110 CALL	+10	-1	.00	.00	.00	.00	.60	.45	0	(\$150.00)	\$0.00		
Selected Totals											\$8,075.00	\$1,225.00	(\$45,000.00)
Subtotals											\$8,075.00	\$1,225.00	(\$45,000.00)
Overall Totals											\$8,075.00	\$1,225.00	(\$45,000.00)

ACCOUNT STATUS: OK TO TRADE   CASH: \*\*\*\*\*  
OVERALL P/L YTD: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*

FOREX ACCOUNT STATUS OK TO TRADE   FOREX CASH WITH UPL: \*\*\*\*\*  
AVAILABLE DOLLARS: \*\*\*\*\*



Please allow me to recommend three corrective steps.

1. implement a rule that theta calculation is max to the time premium of the position.

That rule can be easily implemented overnight

2. check with brainiest guys in the crew what else is going with the theta calculation.
3. Please asked brainiest also to check the other greeks – since I am getting very worried about those after find this error.