

BOX EXECUTION QUALITY JAN 05

Class	Orders	Contracts	Total Contracts	Orders Unfav. % (ALL)	Orders Unfav. % (ALL)	Contracts Unfav. % (ALL)	Contracts Unfav. % (ALL)	Orders Unfav. (Limited)	Orders Unfav. % (Limited)	Contracts Unfav. (Limited)	Contracts Unfav. % (Limited)	Orders Improved	Orders Improved %	Contracts Improved	Contracts Improved %	Average Improvement	Total Improvement	Average Effective Spread	Time (average)	Time (average with 3 second PIPs)	Time (average without (ML))	Time (average (ML only))	Improvement \$ (25 contracts or less)	Time (26 - 50 contracts)	Improvement \$ (26 - 50 contracts)	Time (51 - 75 contracts)	Improvement \$ (51 - 75 contracts)	Time (76 - 100 contracts)	Improvement \$ (76 - 100 contracts)	Time (101 or more contracts)	Improvement \$ (100 or more contracts)	BOVOCC Market Share	BOX OCC ADV			
346	83,436	1,166,452	1,657,908	134	0.16%	1,317	0.11%	26	0.03%	239	0.02%	40,470	48.50%	541,220	32.64%	\$2,176	\$1,177,558	\$0.084	0.82	2.39	0.75	27.20	0.87	0.0241	0.85	0.0205	0.98	0.0185	0.87	0.0174	0.70	0.0210	5.55%	235,897		
A	38	487	508	0	0.00%	0	0.00%	0	0.00%	0	0.00%	25	65.79%	152	31.21%	\$3.632	\$552	\$0.053	0.90	1.85	0.90	na	0.91	0.0363	0.00	na	na	na	1.00	na	6.32%	151				
AA	245	3,626	4,229	0	0.00%	0	0.00%	0	0.00%	0	0.00%	175	71.43%	1,493	41.17%	\$2.038	\$3,042	\$0.058	0.52	1.95	0.52	na	0.44	0.0220	0.57	0.0181	0.57	na	0.25	0.0100	1.00	na	5.04%	623		
AAPL	4,248	27,313	46,718	7	0.16%	50	0.18%	1	0.02%	11	0.04%	535	12.59%	5,423	19.86%	\$2.814	\$15,258	\$0.094	0.77	1.51	0.67	26.09	0.81	0.0298	0.89	0.0256	0.53	0.0239	1.24	na	0.00	0.0271	4.83%	4,827		
ABC	20	283	315	0	0.00%	0	0.00%	0	0.00%	0	0.00%	10	50.00%	204	72.08%	\$1.500	\$306	\$0.079	0.41	3.04	0.41	na	0.63	0.0198	na	na	na	na	0.00	0.0100	na	na	4.73%	90		
ABT	130	1,324	1,444	0	0.00%	0	0.00%	0	0.00%	0	0.00%	81	62.31%	721	54.46%	\$1.710	\$1,233	\$0.073	0.73	2.55	0.73	na	0.58	0.0213	0.81	0.0152	na	na	1.00	0.0100	na	na	1.44%	399		
ABX	86	1,373	1,652	0	0.00%	0	0.00%	0	0.00%	0	0.00%	60	69.77%	732	53.31%	\$1.992	\$1,458	\$0.069	0.81	2.49	0.81	na	0.73	0.0210	0.74	0.0238	1.00	na	1.00	0.0100	na	na	5.62%	203		
ACF	67	553	2,236	0	0.00%	0	0.00%	0	0.00%	0	0.00%	14	20.90%	49	8.86%	\$2.469	\$121	\$0.143	0.78	2.08	0.78	na	0.77	0.0247	1.00	na	na	na	na	na	na	5.35%	99			
ACS	102	858	1,521	0	0.00%	0	0.00%	0	0.00%	0	0.00%	34	33.33%	135	15.73%	\$2.237	\$302	\$0.106	1.08	1.61	0.84	21.00	1.08	0.0224	1.00	na	na	na	na	na	na	na	5.55%	255		
ADBE	276	1,298	1,619	0	0.00%	0	0.00%	0	0.00%	0	0.00%	209	75.72%	841	64.79%	\$2.773	\$2,332	\$0.072	0.72	2.77	0.72	na	0.72	0.0283	0.74	0.0231	na	na	na	na	na	na	6.79%	251		
ADI	71	863	1,127	0	0.00%	0	0.00%	0	0.00%	0	0.00%	61	85.92%	757	87.72%	\$1.793	\$1,357	\$0.056	0.75	3.67	0.75	na	0.87	0.0187	0.75	0.0125	na	na	0.00	0.0200	na	na	5.95%	153		
ADP	55	671	903	0	0.00%	0	0.00%	0	0.00%	0	0.00%	31	56.36%	143	21.31%	\$2.371	\$339	\$0.073	0.42	1.10	0.42	na	0.59	0.0247	0.27	0.0200	na	na	0.33	na	na	na	9.87%	216		
ADRX	31	301	1,385	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	16.13%	55	18.27%	\$2.000	\$110	\$0.269	0.45	1.17	0.45	na	0.50	0.0116	0.00	0.0270	na	na	na	na	na	na	4.74%	114		
AET	93	407	635	0	0.00%	0	0.00%	0	0.00%	0	0.00%	42	45.16%	149	36.61%	\$3.617	\$539	\$0.160	0.89	2.11	0.68	22.00	0.89	0.0362	na	na	na	na	na	na	na	na	8.22%	240		
AIG	107	1,753	2,403	0	0.00%	0	0.00%	0	0.00%	0	0.00%	42	39.25%	502	28.64%	\$1.456	\$731	\$0.085	0.47	1.62	0.47	na	0.55	0.0185	0.62	0.0100	1.00	na	0.00	0.0133	na	na	6.01%	642		
AKAM	76	601	759	0	0.00%	0	0.00%	0	0.00%	0	0.00%	45	59.21%	336	55.91%	\$1.652	\$555	\$0.069	0.69	2.55	0.69	na	0.73	0.0172	0.00	0.0100	na	na	na	na	na	na	5.43%	95		
ALA	6	133	593	0	0.00%	0	0.00%	0	0.00%	0	0.00%	4	66.67%	93	69.92%	\$1.699	\$158	\$0.121	3.78	5.88	1.00	38.00	9.22	0.0286	1.00	na	1.00	0.0100	na	na	na	na	na	4.02%	70	
ALD	46	426	456	0	0.00%	0	0.00%	0	0.00%	0	0.00%	18	39.13%	238	55.87%	\$1.803	\$429	\$0.116	0.74	2.52	0.74	na	0.63	0.0212	1.00	0.0200	1.00	0.0120	na	na	na	na	na	4.70%	65	
ALL	55	554	823	0	0.00%	0	0.00%	0	0.00%	0	0.00%	30	54.55%	253	45.67%	\$3.328	\$842	\$0.077	0.67	2.18	0.56	31.00	0.78	0.0187	0.28	0.0524	na	na	1.00	0.0300	na	na	2.05%	171		
ALTR	71	903	1,030	0	0.00%	0	0.00%	0	0.00%	0	0.00%	56	78.87%	715	79.18%	\$2.050	\$1,466	\$0.066	0.68	3.26	0.68	na	0.69	0.0202	0.66	0.0210	na	na	na	na	na	na	5.08%	239		
AMAT	450	6,056	6,881	0	0.00%	0	0.00%	0	0.00%	0	0.00%	274	60.89%	2,780	45.90%	\$1.929	\$5,363	\$0.047	0.67	2.66	0.67	na	0.89	0.0213	0.51	0.0259	0.60	0.0136	0.36	0.0100	0.76	0.0100	6.96%	1,276		
AMD	232	4,608	10,323	0	0.00%	0	0.00%	0	0.00%	0	0.00%	54	23.28%	1,068	23.18%	\$1.231	\$1,315	\$0.064	1.29	2.12	1.11	24.33	1.02	0.0163	2.32	0.0100	0.68	na	2.62	0.0100	0.57	na	na	2.91%	1,438	
AMGN	456	6,198	9,760	0	0.00%	0	0.00%	0	0.00%	0	0.00%	262	57.46%	2,524	40.72%	\$2.853	\$7,202	\$0.071	0.50	1.99	0.50	na	0.49	0.0243	0.67	0.0185	0.78	0.0400	0.67	0.0200	0.34	0.0500	9.78%	1,616		
AMR	311	4,971	9,143	2	0.64%	20	0.40%	0	0.00%	0	0.00%	126	40.51%	1,672	33.64%	\$2.172	\$3,632	\$0.063	0.72	1.80	0.72	na	0.81	0.0192	0.49	0.0231	0.56	0.0500	0.83	na	0.50	na	na	4.03%	707	
AMT	8	56	236	0	0.00%	0	0.00%	0	0.00%	0	0.00%	4	50.00%	16	28.57%	\$1.063	\$17	\$0.175	0.73	1.68	0.73	na	0.73	0.0106	na	na	na	na	na	na	na	na	2.94%	35		
AMTD	67	786	1,292	0	0.00%	0	0.00%	0	0.00%	0	0.00%	38	56.72%	398	50.64%	\$2.528	\$1,006	\$0.050	0.68	2.38	0.68	na	0.70	0.0171	0.46	0.0166	na	na	1.00	0.0500	na	na	na	4.72%	97	
AMZN	607	3,956	12,399	0	0.00%	0	0.00%	0	0.00%	0	0.00%	300	49.42%	1,088	27.50%	\$2.528	\$2,751	\$0.137	0.79	1.70	0.79	na	0.91	0.0257	0.44	0.0100	0.52	na	0.50	na	1.00	na	na	4.58%	1,396	
AN	1	20	20	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	100.00%	20	100.00%	\$2.000	\$40	\$0.060	1.00	4.00	1.00	na	1.00	0.0200	na	na	na	na	na	na	na	na	0.85%	34		
ANF	69	620	1,214	0	0.00%	0	0.00%	0	0.00%	0	0.00%	31	44.93%	244	39.35%	\$2.172	\$530	\$0.143	0.81	2.12	0.81	na	0.79	0.0264	na	na	na	1.00	0.0100	na	na	na	na	na	4.32%	134
APA	161	2,134	2,599	0	0.00%	0	0.00%	0	0.00%	0	0.00%	121	75.16%	1,640	76.85%	\$2.532	\$4,152	\$0.086	0.73	3.24	0.73	na	0.72	0.0266	0.73	0.0208	1.00	0.0700	na	na	na	na	na	7.02%	323	
APC	98	1,088	1,752	0	0.00%	0	0.00%	0	0.00%	0	0.00%	61	62.24%	567	52.11%	\$2.051	\$1,163	\$0.100	0.54	3.28	0.54	na	0.59	0.0255	0.48	0.0154	na	na	na	na	na	na	na	4.39%	165	
APOL	88	546	854	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	5.68%	69	12.64%	\$2.928	\$202	\$0.121	2.68	3.18	1.60	31.00	2.68	0.0293	na	na	na	na	na	na	na	na	na	7.56%	269	
APPX	750	5,541	9,031	0	0.00%	0	0.00%	0	0.00%	0	0.00%	78	10.40%	736	13.28%	\$2.482	\$1,827	\$0.147	1.12	1.62	0.94	43.00	1.21	0.0259	0.34	0.0200	na	na	0.00	na	na	na	na	3.56%	834	
ASKJ	154	1,427	2,301	0	0.00%	0	0.00%	0	0.00%	0	0.00%	79	51.30%	423	29.64%	\$3.182	\$1,346	\$0.093	1.66	2.61	1.57	14.00	0.78	0.0318	0.91	na	na	na	na	na	0.52	na	na	2.71%	194	
ASML	26	400	670	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	19.23%	49	12.25%	\$1.776	\$87	\$0.059	0.71	1.08	0.71	na	0.71	0.0178	na	na	na	na	na	na	na	na	na	2.86%	105	
ATML	20	529	582	0	0.00%	0	0.00%	0	0.00%	0	0.00%	11	55.00%	438	82.80%	\$1.927	\$844	\$0.034	2.14	4.47	1.															

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EP	98	1,212	1,553	0	0.00%	0	0.00%	0	0.00%	0	0.00%	11	11.22%	158	13.04%	\$1,291	\$204	\$0.069	1.82	2.34	0.64	33.95	0.84	0.0121	5.02	0.0138	n.a	n.a	n.a	n.a	n.a	2.09%	140		
ERICY	173	2,674	6,793	0	0.00%	0	0.00%	0	0.00%	0	0.00%	52	30.06%	654	24.46%	\$3,223	\$2,108	\$0.089	0.78	1.50	0.78	n.a	0.62	0.0446	0.95	0.0285	0.77	0.0293	1.00	0.0250	n.a	n.a	5.00%	562	
ERTS	271	3,196	4,225	0	0.00%	0	0.00%	0	0.00%	0	0.00%	147	54.24%	1,678	52.50%	\$3,316	\$5,565	\$0.068	0.64	2.50	0.64	n.a	0.80	0.0281	0.92	0.0325	n.a	n.a	0.50	0.0146	0.00	0.0500	5.00%	906	
ET	131	1,338	1,830	0	0.00%	0	0.00%	0	0.00%	0	0.00%	60	45.80%	524	39.16%	\$2,170	\$1,137	\$0.056	0.82	2.09	0.82	n.a	0.81	0.0187	1.00	0.0400	n.a	n.a	n.a	n.a	n.a	5.85%	177		
EXTR	8	47	47	0	0.00%	0	0.00%	0	0.00%	0	0.00%	3	37.50%	18	38.30%	\$1,556	\$28	\$0.054	0.55	1.91	0.55	n.a	0.55	0.0156	n.a	n.a	n.a	n.a	n.a	n.a	n.a	3.78%	13		
F	74	2,406	4,964	0	0.00%	0	0.00%	0	0.00%	0	0.00%	39	52.70%	1,139	47.34%	\$2,461	\$2,803	\$0.070	2.35	4.07	2.23	21.00	1.15	0.0281	0.41	0.0350	0.55	0.0186	7.81	0.0100	0.00	0.0300	2.31%	460	
FCX	143	1,137	1,480	0	0.00%	0	0.00%	0	0.00%	0	0.00%	119	83.22%	834	73.35%	\$1,983	\$1,654	\$0.091	0.65	3.08	0.65	n.a	0.58	0.0236	0.82	0.0163	0.00	n.a	1.00	0.0100	n.a	n.a	3.71%	216	
FDC	98	1,409	3,089	0	0.00%	0	0.00%	0	0.00%	0	0.00%	43	43.88%	374	26.54%	\$2,356	\$881	\$0.119	0.74	1.60	0.74	n.a	0.64	0.0247	0.87	0.0100	n.a	n.a	n.a	n.a	n.a	5.93%	377		
FDRY	106	1,009	1,222	0	0.00%	0	0.00%	0	0.00%	0	0.00%	34	32.08%	336	33.30%	\$1,842	\$619	\$0.055	0.60	1.70	0.60	n.a	0.62	0.0173	0.43	0.0229	n.a	n.a	n.a	n.a	n.a	n.a	3.27%	115	
FDX	176	1,172	2,052	0	0.00%	0	0.00%	0	0.00%	0	0.00%	101	57.39%	569	48.55%	\$2,958	\$1,683	\$0.093	1.15	2.74	0.65	60.00	1.18	0.0296	0.00	n.a	n.a	n.a	n.a	n.a	n.a	6.39%	315		
FLEX	98	1,113	1,483	0	0.00%	0	0.00%	0	0.00%	0	0.00%	60	61.22%	458	41.15%	\$2,762	\$1,285	\$0.053	0.64	2.00	0.64	n.a	0.57	0.0228	0.65	n.a	n.a	n.a	n.a	1.00	0.0400	2.88%	200		
FLML	13	82	82	0	0.00%	0	0.00%	0	0.00%	0	0.00%	7	53.85%	48	58.54%	\$1,563	\$75	\$0.083	0.98	2.84	0.98	n.a	0.98	0.0156	n.a	n.a	n.a	n.a	n.a	n.a	n.a	2.33%	19		
FNM	180	1,867	3,285	1	0.56%	10	0.54%	1	0.56%	10	0.54%	25	13.89%	176	9.43%	\$1,813	\$319	\$0.097	0.57	0.95	0.51	22.00	0.68	0.0181	0.35	n.a	0.50	n.a	0.00	n.a	n.a	3.16%	346		
FON	66	743	2,285	0	0.00%	0	0.00%	0	0.00%	0	0.00%	7	10.61%	106	14.27%	\$1,066	\$113	\$0.111	4.53	5.10	0.73	32.11	2.90	0.0217	n.a	n.a	28.00	n.a	0.00	0.0100	n.a	n.a	0.85%	177	
FRE	76	1,060	1,858	0	0.00%	0	0.00%	0	0.00%	0	0.00%	46	60.53%	291	27.45%	\$2,010	\$585	\$0.121	0.55	1.52	0.55	n.a	0.72	0.0246	0.38	0.0100	n.a	n.a	1.00	n.a	n.a	n.a	6.03%	393	
FRX	215	1,792	3,147	0	0.00%	0	0.00%	0	0.00%	0	0.00%	116	53.95%	798	44.53%	\$2,168	\$1,730	\$0.124	1.15	2.61	0.99	19.00	1.35	0.0246	0.60	0.0262	1.00	0.0100	0.46	0.0100	n.a	n.a	7.48%	496	
G	62	944	2,048	0	0.00%	0	0.00%	0	0.00%	0	0.00%	15	24.19%	223	23.62%	\$2,789	\$622	\$0.117	0.60	1.32	0.60	n.a	0.77	0.0236	1.00	n.a	0.27	n.a	0.00	n.a	1.00	0.0300	5.76%	211	
GD	88	1,027	1,666	0	0.00%	0	0.00%	0	0.00%	0	0.00%	59	67.05%	770	74.98%	\$2,061	\$1,587	\$0.096	0.87	3.20	0.87	n.a	0.87	0.0243	0.81	0.0155	n.a	n.a	1.00	0.0100	n.a	n.a	3.63%	188	
GDT	30	274	455	0	0.00%	0	0.00%	0	0.00%	0	0.00%	3	10.00%	11	4.01%	\$1,000	\$11	\$0.177	0.40	0.56	0.40	n.a	0.40	0.0100	n.a	n.a	n.a	n.a	n.a	n.a	n.a	1.31%	78		
GE	390	6,091	6,458	0	0.00%	0	0.00%	0	0.00%	0	0.00%	265	67.95%	3,349	54.98%	\$2,022	\$6,772	\$0.045	0.67	2.59	0.60	20.64	0.71	0.0221	0.62	0.0224	0.50	n.a	0.53	0.0169	0.73	0.0100	5.76%	2,118	
GENZ	140	726	895	0	0.00%	0	0.00%	0	0.00%	0	0.00%	93	66.43%	478	65.84%	\$3,169	\$1,515	\$0.093	0.57	2.80	0.57	n.a	0.51	0.0308	0.81	0.0335	n.a	n.a	n.a	n.a	n.a	7.94%	293		
GERN	121	872	1,257	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	n.a	\$0	\$0.084	0.66	0.66	0.66	n.a	0.66	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	2.04%	88		
GFI	21	509	509	0	0.00%	0	0.00%	0	0.00%	0	0.00%	16	76.19%	364	71.51%	\$3,069	\$1,117	\$0.079	1.20	3.15	1.20	n.a	0.58	0.0103	1.00	0.0100	n.a	n.a	n.a	n.a	2.00	0.0600	3.08%	43	
GILD	91	1,358	1,613	0	0.00%	0	0.00%	0	0.00%	0	0.00%	70	76.92%	1,163	85.64%	\$2,248	\$2,614	\$0.053	0.54	3.53	0.54	n.a	0.69	0.0238	1.00	0.0225	n.a	n.a	n.a	n.a	0.00	0.0200	3.19%	161	
GLW	292	4,699	7,807	0	0.00%	0	0.00%	0	0.00%	0	0.00%	196	67.12%	2,865	60.97%	\$1,792	\$5,135	\$0.054	0.77	2.71	0.77	n.a	0.73	0.0214	0.79	0.0197	0.85	0.0121	0.60	0.0125	1.00	0.0100	4.83%	460	
GM	310	6,133	14,413	0	0.00%	0	0.00%	0	0.00%	0	0.00%	164	52.90%	3,036	49.50%	\$3,210	\$9,746	\$0.062	0.62	2.50	0.60	20.00	0.74	0.0198	1.21	0.0100	1.00	0.0100	0.00	0.0500	0.06	0.0392	2.49%	1,155	
GMST	2	36	96	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	0	0.00%	n.a	\$0	\$0.099	0.86	0.86	0.86	n.a	0.00	n.a	1.00	n.a	n.a	n.a	n.a	n.a	n.a	1.61%	8		
GNSS	48	367	1,032	0	0.00%	0	0.00%	0	0.00%	0	0.00%	22	45.83%	130	35.42%	\$1,762	\$229	\$0.102	0.60	1.82	0.60	n.a	0.60	0.0176	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	7.41%	59	
GOOG	1,406	10,176	19,439	34	2.42%	189	1.86%	6	0.43%	56	0.55%	0	0.00%	0	0.00%	n.a	\$0	\$0.138	1.44	1.44	1.11	26.26	1.54	n.a	1.01	n.a	1.00	n.a	7.00	n.a	0.54	n.a	2.52%	2,114	
GP	33	206	220	0	0.00%	0	0.00%	0	0.00%	0	0.00%	22	66.67%	146	70.87%	\$2,747	\$401	\$0.073	0.36	2.97	0.36	n.a	0.43	0.0239	0.00	0.0400	n.a	n.a	n.a	n.a	n.a	n.a	8.70%	109	
GPS	67	971	1,574	0	0.00%	0	0.00%	0	0.00%	0	0.00%	35	52.24%	306	31.51%	\$1,686	\$516	\$0.095	0.90	2.02	0.90	n.a	1.29	0.0185	0.73	0.0132	0.00	n.a	n.a	n.a	n.a	n.a	n.a	4.17%	374
GS	141	1,861	3,263	0	0.00%	0	0.00%	0	0.00%	0	0.00%	82	58.16%	848	45.57%	\$2,045	\$1,734	\$0.078	0.83	2.36	0.67	29.00	0.86	0.0200	1.04	0.0281	0.45	n.a	0.00	0.0100	1.00	n.a	2.33%	703	
GSF	59	348	445	0	0.00%	0	0.00%	0	0.00%	0	0.00%	46	77.97%	148	42.53%	\$2,547	\$377	\$0.081	0.57	2.03	0.57	n.a	0.52	0.0255	1.00	n.a	n.a	n.a	n.a	n.a	n.a	n.a	6.26%	147	
GT	90	1,507	3,089	0	0.00%	0	0.00%	0	0.00%	0	0.00%	44	48.89%	892	59.19%	\$1,905	\$1,699	\$0.128	0.74	2.68	0.74	n.a	0.72	0.0239	1.00	0.0244	0.59	0.0138	1.00	0.0100	n.a	n.a	4.81%	192	
HAL	100	4,265	5,086	0	0.00%	0	0.00%	0	0.00%	0	0.00%	61	61.00%	3,497	81.99%	\$2,908	\$10,168	\$0.043	0.27	3.48	0.21	21.54	0.95	0.0233	0.55	0.0209	0.00	n.a	n.a	n.a	0.11	0.0300	2.77%	411	
HCA	61	796	1,679	0	0.00%	0	0.00%	0	0.00%	0	0.00%	4	6.56%	27	3.39%	\$1,481	\$40	\$0.102	1.14	1.27	0.62	17.00	1.14	0.0148	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	4.31%	200	
HD	179	2,461	3,233	0	0.00%	0	0.00%	0	0.00%	0	0.00%	113	63.13%	937	38.07%	\$1,914	\$1,793	\$0.059	0.76	2.05	0.76	n.a	0.53	0.0224	0.73	0.0136	0.00	n.a	1.50	0.0200	1.00	0.0100	6.70%	637	
HDI	104	1,068	1,867	0	0.00%	0	0.00%	0	0.00%	0	0.00%	58	55.77%	558	52.25%	\$3,170	\$1,769	\$0.081	0.68	2.43	0.68	n.a	0.67	0.0317	0.75	n.a	n.a	n.a	n.a	n.a	n.a	n.a	3.34%	167	
HMY	50	634	644	0	0.00%	0	0.00%	0	0.00%	0	0.00%	38	76.00%	411	64.83%	\$1,703	\$700	\$0.068	0.50	2.70	0.50	n.a	0.64	0.0186	0.37	0.0127	0.00	n.a	n.a	n.a	n.a	n.a	n.a	3.99%	59
HON	178	3,706	4,010	0	0.00%	0	0.00%	0	0.00%	0	0.00%	145	81.46%	3,254	87.80%	\$1,959	\$6,374	\$0.066	0.35	3.65	0.35	n.a	0.74	0.0283	0.67	0.0209	2.06	n.a	n.a	n.a	0.06	0.0170	8.52%	364	
HOV	162	1,032	1,708	0	0.00%	0	0.00%	0	0.00%	0	0.00%	95	58.64%	429	41.57%	\$3,040	\$1,304	\$0.096	0.64	1.97	0.64	n.a	0.62	0.0280	n.a	n.a</									

BOX EXECUTION QUALITY JAN 05

Class	Orders	Contracts	Total Contracts	Orders Unfav. % (ALL)	Orders Unfav. % (ALL)	Contracts Unfav. % (ALL)	Contracts Unfav. % (ALL)	Orders Unfav. (Limited)	Orders Unfav. % (Limited)	Contracts Unfav. (Limited)	Contracts Unfav. % (Limited)	Orders Improved	Orders Improved %	Contracts Improved	Contracts Improved %	Average Improvement	Total Improvement	Average Effective Spread	Time (average)	Time (average with 3 second PIPs)	Time (average without (ML))	Time (average (ML only))	Improvement \$ (25 contracts or less)	Time (26 - 50 contracts)	Improvement \$ (26 - 50 contracts)	Time (51 - 75 contracts)	Improvement \$ (51 - 75 contracts)	Time (76 - 100 contracts)	Improvement \$ (76 - 100 contracts)	Time (101 or more contracts)	Improvement \$ (100 or more contracts)	BOVOCC Market Share	BOX OCC ADV		
JPM	245	4,802	6,727	0	0.00%	0	0.00%	0	0.00%	0	0.00%	150	61.22%	2,662	55.44%	\$2,388	\$6,356	\$0.073	0.58	2.51	0.52	27.00	0.64	0.0242	0.61	0.0195	0.53	0.0100	0.56	0.0131	0.53	0.0295	2.09%	1,651	
KBH	409	1,590	2,086	0	0.00%	0	0.00%	0	0.00%	0	0.00%	291	71.15%	913	57.42%	\$3,593	\$3,280	\$0.123	0.93	2.73	0.80	22.00	0.93	0.0359	na	na	na	na	1.00	na	na	5.80%	321		
KKD	351	2,479	4,408	0	0.00%	0	0.00%	0	0.00%	0	0.00%	18	5.13%	221	8.91%	\$1,462	\$323	\$0.089	0.69	1.05	0.57	29.00	0.71	0.0178	0.24	0.0100	na	na	na	na	na	2.78%	354		
KLAC	555	5,655	9,701	0	0.00%	0	0.00%	0	0.00%	0	0.00%	306	55.14%	2,238	39.58%	\$2,020	\$4,521	\$0.062	0.66	1.94	0.66	na	0.69	0.0228	0.85	0.0173	0.77	0.0154	1.00	0.0100	0.27	0.0100	12.76%	1,811	
KMRT	1	10	10	0	0.00%	0	0.00%	0	0.00%	0	0.00%	1	100.00%	10	100.00%	\$2,000	\$20	\$0.210	0.00	4.00	0.00	na	0.00	0.0200	na	na	na	na	na	na	na	2.18%	238		
KMX	9	78	98	0	0.00%	0	0.00%	0	0.00%	0	0.00%	7	77.78%	62	79.49%	\$2,000	\$124	\$0.132	1.96	4.86	0.45	24.00	1.96	0.0200	na	na	na	na	na	na	na	1.33%	11		
KO	118	1,996	3,003	0	0.00%	0	0.00%	0	0.00%	0	0.00%	74	62.71%	1,164	58.32%	\$2,071	\$2,411	\$0.060	0.50	2.53	0.50	na	0.49	0.0238	0.65	0.0195	0.55	0.0100	0.42	0.0189	na	na	4.58%	436	
KRB	45	1,099	1,407	0	0.00%	0	0.00%	0	0.00%	0	0.00%	26	57.78%	462	42.04%	\$1,677	\$775	\$0.087	0.36	1.93	0.36	na	0.57	0.0224	1.00	na	na	na	0.00	na	0.38	0.0120	4.44%	200	
KSS	119	833	1,340	0	0.00%	0	0.00%	0	0.00%	0	0.00%	86	72.27%	438	52.58%	\$2,295	\$1,005	\$0.085	0.73	2.48	0.73	na	0.67	0.0229	1.00	na	na	na	na	na	na	na	4.48%	190	
L	16	395	506	0	0.00%	0	0.00%	0	0.00%	0	0.00%	4	25.00%	49	12.41%	\$1,000	\$49	\$0.066	0.88	1.35	0.88	na	0.52	0.0100	1.13	na	na	na	na	na	na	na	5.46%	149	
LEH	84	496	1,007	0	0.00%	0	0.00%	0	0.00%	0	0.00%	51	60.71%	280	56.45%	\$2,339	\$655	\$0.096	0.80	2.55	0.80	na	0.76	0.0222	na	na	na	1.00	0.0259	na	na	5.24%	318		
LEN	120	899	975	0	0.00%	0	0.00%	0	0.00%	0	0.00%	87	72.50%	546	60.73%	\$3,190	\$1,742	\$0.090	0.69	2.65	0.69	na	0.70	0.0339	0.64	0.0147	na	na	na	na	na	na	3.45%	224	
LEXR	117	1,431	1,594	0	0.00%	0	0.00%	0	0.00%	0	0.00%	81	69.23%	1,023	71.49%	\$2,149	\$2,198	\$0.056	0.74	3.04	0.74	na	0.67	0.0230	1.07	0.0165	na	na	na	na	na	na	4.73%	108	
LF	4	60	60	0	0.00%	0	0.00%	0	0.00%	0	0.00%	3	75.00%	55	91.67%	\$1,818	\$100	\$0.088	0.00	3.67	0.00	na	0.00	0.0280	0.00	0.0100	na	na	na	na	na	na	5.35%	25	
LLL	119	650	939	0	0.00%	0	0.00%	0	0.00%	0	0.00%	85	71.43%	388	59.69%	\$1,987	\$771	\$0.118	0.61	2.64	0.61	na	0.62	0.0205	0.53	0.0136	na	na	na	na	na	na	7.69%	207	
LLTC	123	2,622	3,508	0	0.00%	0	0.00%	0	0.00%	0	0.00%	74	60.16%	1,754	66.90%	\$1,389	\$2,437	\$0.064	0.56	2.86	0.56	na	0.74	0.0204	0.41	0.0100	1.25	0.0100	0.25	0.0150	0.60	0.0100	8.72%	703	
LLY	253	2,451	6,650	0	0.00%	0	0.00%	0	0.00%	0	0.00%	43	17.00%	235	9.59%	\$1,643	\$386	\$0.086	0.68	1.06	0.68	na	0.63	0.0164	0.97	na	na	na	0.00	na	na	na	2.22%	493	
LMT	56	456	1,246	0	0.00%	0	0.00E+00	0	0.00E+00	0	0.00E+00	28	50.00%	167	36.62%	\$2,629	\$439	\$0.103	0.51	3.12	0.51	na	0.50	0.0298	0.58	0.0215	na	na	na	na	na	na	5.53%	253	
LOW	69	708	960	0	0.00%	0	0.00%	0	0.00%	0	0.00%	54	78.26%	527	74.44%	\$2,996	\$1,579	\$0.090	1.05	3.14	1.05	na	0.49	0.0301	0.66	0.0490	2.00	0.0100	3.00	0.0100	na	na	5.09%	161	
LRCX	83	798	1,309	0	0.00%	0	0.00%	0	0.00%	0	0.00%	46	55.42%	165	20.68%	\$2,321	\$383	\$0.073	0.43	1.18	0.43	na	0.57	0.0232	na	na	na	na	na	na	na	na	4.82%	153	
LSI	52	1,868	2,721	0	0.00%	0	0.00%	0	0.00%	0	0.00%	24	46.15%	828	44.33%	\$1,181	\$978	\$0.059	1.31	2.78	1.31	na	0.75	0.0157	0.87	0.0145	0.65	na	0.50	0.0100	2.74	0.0100	7.38%	219	
LU	137	4,970	6,453	0	0.00%	0	0.00%	0	0.00%	0	0.00%	44	32.12%	2,202	44.31%	\$1,368	\$3,013	\$0.044	0.93	2.43	0.64	23.52	0.60	0.0176	1.88	0.0182	1.00	0.0200	0.67	0.0126	0.80	0.0100	2.18%	608	
LUV	25	537	575	0	0.00%	0	0.00%	0	0.00%	0	0.00%	21	84.00%	372	69.27%	\$1,704	\$634	\$0.063	0.46	2.77	0.46	na	0.49	0.0107	0.00	0.0100	0.00	0.0200	0.00	na	1.00	0.0200	5.56%	100	
LVLT	79	2,544	3,103	0	0.00%	0	0.00%	0	0.00%	0	0.00%	35	44.30%	1,105	43.44%	\$1,924	\$2,126	\$0.059	0.77	2.17	0.77	na	0.70	0.0196	0.74	0.0204	0.88	0.0271	0.79	0.0162	na	na	6.15%	548	
LXK	80	570	928	0	0.00%	0	0.00%	0	0.00%	0	0.00%	33	41.25%	203	35.61%	\$2,143	\$435	\$0.095	0.67	1.91	0.67	na	0.67	0.0214	na	na	na	na	na	na	na	na	5.31%	189	
LYO	26	405	1,139	0	0.00%	0	0.00%	0	0.00%	0	0.00%	16	61.54%	139	34.32%	\$2,906	\$430	\$0.180	0.32	1.59	0.32	na	0.85	0.0285	0.00	0.0300	na	na	na	na	0.00	na	2.52%	47	
MAT	16	180	196	0	0.00%	0	0.00%	0	0.00%	0	0.00%	9	56.25%	59	32.78%	\$1,695	\$100	\$0.074	0.96	1.98	0.96	na	0.93	0.0169	na	na	1.00	na	na	na	na	na	6.64%	83	
MCD	92	1,203	1,477	0	0.00%	0	0.00%	0	0.00%	0	0.00%	69	75.00%	596	49.54%	\$2,451	\$1,461	\$0.070	0.49	2.14	0.49	na	0.54	0.0231	0.47	0.0482	0.58	0.0150	0.00	na	na	na	na	4.02%	204
MCHP	46	684	1,014	0	0.00%	0	0.00%	0	0.00%	0	0.00%	33	71.74%	448	65.50%	\$2,096	\$939	\$0.061	0.74	2.81	0.74	na	0.91	0.0241	0.48	0.0183	na	na	0.00	0.0200	na	na	6.56%	115	
MDT	128	1,471	1,821	0	0.00%	0	0.00%	0	0.00%	0	0.00%	68	53.13%	498	33.85%	\$2,034	\$1,013	\$0.077	1.23	2.38	0.61	19.00	0.64	0.0243	2.59	0.0141	0.67	na	na	na	na	na	na	5.40%	352
MEDI	69	584	1,018	0	0.00%	0	0.00%	0	0.00%	0	0.00%	37	53.62%	158	27.05%	\$2,171	\$343	\$0.075	0.47	1.39	0.47	na	0.51	0.0217	0.00	na	na	na	na	na	na	na	na	3.86%	132
MER	207	2,480	4,328	0	0.00%	0	0.00%	0	0.00%	0	0.00%	163	78.74%	1,350	54.44%	\$2,614	\$3,529	\$0.085	0.70	2.45	0.70	na	0.64	0.0311	0.70	0.0213	1.56	0.0100	0.60	0.0200	na	na	5.30%	717	
MERQ	85	883	1,131	0	0.00%	0	0.00%	0	0.00%	0	0.00%	54	63.53%	552	62.51%	\$2,832	\$1,563	\$0.090	0.69	2.72	0.69	na	0.69	0.0315	0.66	0.0155	na	na	na	na	na	na	na	3.29%	160
MLNM	105	1,259	2,026	0	0.00%	0	0.00%	0	0.00%	0	0.00%	39	37.14%	541	42.97%	\$3,166	\$1,713	\$0.052	0.57	2.11	0.57	na	0.68	0.0171	0.87	0.0100	na	na	na	na	0.00	0.0500	4.81%	191	
MMC	84	1,090	2,152	0	0.00%	0	0.00%	0	0.00%	0	0.00%	10	11.90%	179	16.42%	\$1,765	\$316	\$0.122	0.72	1.37	0.52	22.00	0.77	0.0273	0.47	0.0100	na	na	na	na	na	na	na	4.69%	311
MMM	202	2,690	4,331	0	0.00%	0	0.00%	0	0.00%	0	0.00%	116	57.43%	1,430	53.16%	\$2,250	\$3,218	\$0.093	0.69	2.42	0.69	na	0.75	0.0306	0.52	0.0263	0.00	na	0.75	0.0167	1.00	0.0108	11.79%	990	
MO	851	8,468	11,167	1	0.12%	3	0.04%	0	0.00%	0	0.00%	66	7.76%	1,677	19.80%	\$1,302	\$2,184	\$0.106	0.55	1.35	0.55	na	0.62	0.0198	0.74	0.0200	0.48	na	0.52	na	0.00	0.0100	3.31%	1,337	
MOT	273	5,758	7,763	0	0.00%	0	0.00%	0	0.00%	0	0.00%	147	53.85%	2,515	43.68%	\$1,673	\$4,208	\$0.062	0.62	2.11	0.53	25.19	0.92	0.0171	0.73	0.0192	0.12	0.0100	0.45	0.0100	0.00	0.0200	3.59%	1,104	
MRK	870	8,437	15,184	0	0.00%	0	0.00%	0	0.00%	0	0.00%	114	13.10%	1,246	14.77%	\$1,777	\$2,214	\$0.076	0.88	1.39	0.65	38.29	0.64	0.0188	1.24	0.0152	1.00	na	2.40	0.0200	0.41	na	5.53%	1,709	
MRVL	87	688	1,097	0	0.00%	0	0.00%	0	0.00%	0	0.00%	44	50.57%	306	44.48%	\$2,771	\$848	\$0.081	0.60	2.15	0.60	na	0.72	0.0252	0.64	0.0480	na	na	0.00	0.0260	na	na	4.35%	205	
MSFT	1,739	26,238	31,410	0	0.00%	0																													

Class	Orders	Contracts	Total Contracts	Orders Unfav. % (ALL)	Orders Unfav. % (ALL)	Contracts Unfav. % (ALL)	Contracts Unfav. % (ALL)	Orders Unfav. (Limited)	Orders Unfav. % (Limited)	Contracts Unfav. (Limited)	Contracts Unfav. % (Limited)	Orders Improved	Orders Improved %	Contracts Improved	Contracts Improved %	Average Improvement	Total Improvement	Average Effective Spread	Time (average)	Time (average with 3 second PIPs)	Time (average without (ML))	Time (average (ML only))	Improvement \$ (25 contracts or less)	Time (26 - 50 contracts)	Improvement \$ (26 - 50 contracts)	Time (51 - 75 contracts)	Improvement \$ (51 - 75 contracts)	Time (76 - 100 contracts)	Improvement \$ (76 - 100 contracts)	Time (101 or more contracts)	Improvement \$ (100 or more contracts)	BOVOCC Market Share	BOX OCC ADV	
NXTL	152	1,098	3,160	0	0.00%	0	0.00%	0	0.00%	0	0.00%	7	4.61%	35	3.19%	\$2,429	\$85	\$0.155	4.61	4.74	22.67	2.97	0.0243	na	na	na	na	21.00	na	na	na	2.84%	352	
OIH	234	3,213	5,040	0	0.00%	0	0.00%	0	0.00%	0	0.00%	148	63.25%	1,228	38.22%	\$2,130	\$2,616	\$0.085	0.72	1.94	0.72	na	0.70	0.0259	0.72	0.0277	na	na	0.67	0.0133	1.00	0.0100	5.11%	582
OMC	31	197	293	0	0.00%	0	0.00%	0	0.00%	0	0.00%	17	54.84%	102	51.78%	\$3,745	\$382	\$0.118	0.85	2.50	0.85	na	0.85	0.0375	na	na	na	na	na	na	na	7.82%	47	
ORCL	92	3,059	4,139	0	0.00%	0	0.00%	0	0.00%	0	0.00%	35	38.04%	1,333	43.58%	\$1,565	\$2,086	\$0.051	1.09	2.44	0.74	24.00	0.76	0.0198	1.74	0.0165	1.29	0.0100	0.80	0.0100	0.86	0.0170	6.86%	1,645
OSIP	32	671	888	0	0.00%	0	0.00%	0	0.00%	0	0.00%	9	28.13%	157	23.40%	\$1,000	\$157	\$0.078	3.62	4.56	0.66	22.27	0.96	0.0100	18.00	na	na	na	na	1.00	na	0.99%	70	
OVTI	163	1,362	1,772	0	0.00%	0	0.00%	0	0.00%	0	0.00%	90	55.21%	517	37.96%	\$2,048	\$1,059	\$0.082	0.67	1.94	0.67	na	0.57	0.0232	0.83	0.0155	1.00	0.0100	na	na	na	na	2.39%	141
PCG	5	14	14	0	0.00%	0	0.00%	0	0.00%	0	0.00%	5	100.00%	14	100.00%	\$3,286	\$46	\$0.056	0.14	4.00	0.14	na	0.14	0.0329	na	na	na	na	na	na	na	5.42%	76	
PCLN	39	295	451	1	2.56%	11	3.73%	0	0.00%	0	0.00%	21	53.85%	109	36.95%	\$3,110	\$339	\$0.093	0.88	2.03	0.88	na	0.87	0.0311	1.00	na	na	na	na	na	na	3.18%	83	
PD	289	1,767	3,363	0	0.00%	0	0.00%	0	0.00%	0	0.00%	170	58.82%	693	39.22%	\$3,678	\$2,549	\$0.137	1.44	2.67	1.04	36.00	1.50	0.0367	0.72	0.0372	na	na	na	na	na	4.24%	460	
PDLI	120	672	814	0	0.00%	0	0.00%	0	0.00%	0	0.00%	84	70.00%	430	63.99%	\$2,016	\$867	\$0.085	0.61	2.80	0.61	na	0.69	0.0191	0.00	0.0250	na	na	na	na	na	5.63%	68	
PEP	150	1,013	1,149	0	0.00%	0	0.00%	0	0.00%	0	0.00%	127	84.67%	681	67.23%	\$2,015	\$1,372	\$0.066	0.72	2.97	0.72	na	0.44	0.0213	0.85	0.0400	na	na	1.50	0.0150	na	na	5.68%	208
PFE	378	7,116	8,269	0	0.00%	0	0.00%	0	0.00%	0	0.00%	236	62.43%	3,672	51.60%	\$1,831	\$6,723	\$0.056	0.66	2.39	0.62	25.00	0.56	0.0189	0.61	0.0169	1.00	na	0.78	0.0163	0.78	0.0197	1.71%	1,094
PG	269	2,762	2,891	0	0.00%	0	0.00%	0	0.00%	0	0.00%	151	56.13%	1,898	68.72%	\$2,106	\$3,997	\$0.065	0.63	2.91	0.63	na	0.58	0.0234	0.77	0.0289	1.00	0.0244	0.61	0.0202	0.55	0.0100	2.20%	846
PHM	208	1,391	1,712	0	0.00%	0	0.00%	0	0.00%	0	0.00%	140	67.31%	933	67.07%	\$2,009	\$1,874	\$0.098	0.72	2.91	0.72	na	0.68	0.0188	0.86	0.0264	2.00	0.0100	0.00	0.0217	na	na	7.02%	310
PHS	43	322	377	0	0.00%	0	0.00%	0	0.00%	0	0.00%	19	44.19%	101	31.37%	\$2,703	\$273	\$0.112	0.77	1.86	0.77	na	0.77	0.0270	na	na	na	na	na	na	na	4.39%	100	
PMCS	82	893	1,240	0	0.00%	0	0.00%	0	0.00%	0	0.00%	38	46.34%	363	40.65%	\$2,507	\$910	\$0.162	0.79	2.10	0.79	na	0.76	0.0269	0.90	0.0100	na	na	na	na	na	3.82%	223	
PPH	35	476	494	0	0.00%	0	0.00%	0	0.00%	0	0.00%	20	57.14%	225	47.27%	\$1,973	\$444	\$0.081	0.62	2.10	0.62	na	0.66	0.0275	0.57	na	0.00	na	1.00	0.0100	na	na	4.49%	137
PRU	26	296	413	0	0.00%	0	0.00%	0	0.00%	0	0.00%	14	53.85%	92	31.08%	\$2,620	\$241	\$0.085	0.82	1.99	0.82	na	0.88	0.0295	0.76	0.0200	na	na	na	na	na	na	7.08%	131
PVN	40	561	865	0	0.00%	0	0.00%	0	0.00%	0	0.00%	16	40.00%	253	45.10%	\$1,830	\$463	\$0.091	0.76	2.31	0.76	na	0.77	0.0193	0.67	0.0150	na	na	na	na	na	4.44%	82	
Q	18	447	644	0	0.00%	0	0.00%	0	0.00%	0	0.00%	11	61.11%	386	86.35%	\$1,168	\$451	\$0.033	0.67	3.52	0.67	na	0.59	0.0159	1.00	0.0100	0.00	0.0100	na	na	na	na	3.85%	79
QCOM	1,250	19,757	28,095	7	0.56%	67	0.34%	3	0.24%	21	0.11%	745	59.60%	11,536	58.39%	\$3,025	\$34,901	\$0.061	0.77	2.67	0.69	16.31	0.77	0.0299	0.71	0.0280	0.93	0.0375	1.85	0.0251	0.43	0.0328	8.10%	2,963
QLGC	578	3,474	4,842	0	0.00%	0	0.00%	0	0.00%	0	0.00%	344	59.52%	1,788	51.47%	\$2,020	\$3,612	\$0.069	0.75	2.40	0.75	na	0.73	0.0214	0.60	0.0206	1.12	0.0131	na	na	na	na	3.97%	563
QQQ	14,688	360,555	453,690	8	0.05%	151	4.19E-04	2	0.01%	21	5.82E-05	9,000	61.27%	177,130	49.13%	\$2,012	\$356,333	\$0.041	0.94	2.53	0.88	27.59	1.07	0.0202	0.95	0.0196	0.56	0.0179	0.84	0.0185	0.85	0.0209	9.31%	43,167
RAD	36	1,074	1,122	0	0.00%	0	0.00%	0	0.00%	0	0.00%	31	86.11%	1,018	94.79%	\$1,562	\$1,590	\$0.041	0.65	3.83	0.65	na	0.72	0.0158	0.54	0.0194	1.50	0.0100	1.00	0.0100	na	na	3.80%	63
RAI	37	328	671	0	0.00%	0	0.00%	0	0.00E+00	0	0.00E+00	8	21.62%	73	22.26%	\$1,274	\$93	\$0.204	2.07	2.63	0.75	44.00	2.08	0.0147	2.00	0.0100	na	na	na	na	na	1.37%	52	
RD	62	682	1,082	0	0.00%	0	0.00%	0	0.00%	0	0.00%	29	46.77%	252	36.95%	\$3,329	\$839	\$0.173	0.80	1.95	0.80	na	0.87	0.0341	0.68	0.0300	na	na	na	na	na	na	8.99%	242
RFMD	78	1,266	1,403	0	0.00%	0	0.00%	0	0.00%	0	0.00%	47	60.26%	858	67.77%	\$1,464	\$1,256	\$0.047	0.81	2.95	0.81	na	0.82	0.0192	0.56	0.0124	na	na	1.00	0.0100	na	na	5.66%	156
RHAT	270	2,283	2,603	0	0.00%	0	0.00%	0	0.00%	0	0.00%	168	62.22%	1,370	60.01%	\$2,047	\$2,805	\$0.064	0.71	2.70	0.71	na	0.72	0.0208	0.83	0.0285	0.81	0.0100	0.00	0.0100	na	na	5.76%	171
RIG	52	681	848	0	0.00%	0	0.00%	0	0.00%	0	0.00%	32	61.54%	338	49.63%	\$2,408	\$814	\$0.097	1.15	2.74	1.15	31.00	1.58	0.0365	0.67	0.0191	na	na	1.00	0.0100	na	na	6.60%	215
RIMM	978	5,465	6,825	1	0.10%	10	0.18%	0	0.00%	0	0.00%	9	0.92%	190	3.48%	\$1,737	\$330	\$0.127	0.84	0.98	0.77	23.83	0.86	0.0183	0.43	0.0157	na	na	na	na	na	3.93%	1,162	
RMBS	628	6,428	9,914	0	0.00%	0	0.00%	0	0.00%	0	0.00%	27	4.30%	277	4.31%	\$1,430	\$396	\$0.079	0.77	0.95	0.67	23.81	0.78	0.0152	0.69	0.0100	1.00	na	0.50	na	na	11.40%	1,830	
RTN	28	509	540	0	0.00%	0	0.00%	0	0.00%	0	0.00%	21	75.00%	302	59.33%	\$2,447	\$739	\$0.069	0.49	2.61	0.49	na	0.53	0.0244	0.69	0.0237	0.00	0.0249	na	na	na	na	8.82%	81
RYL	135	895	1,019	0	0.00%	0	0.00%	0	0.00%	0	0.00%	111	82.22%	667	74.53%	\$2,669	\$1,780	\$0.104	0.68	3.11	0.68	na	0.71	0.0277	0.57	0.0233	na	na	na	na	na	na	4.88%	190
S	198	1,674	2,468	1	0.51%	15	0.90%	0	0.00%	0	0.00%	1	0.51%	4	0.24%	\$1,000	\$4	\$0.302	2.42	2.43	1.35	28.44	2.52	0.0100	1.00	na	na	na	1.00	na	na	2.51%	198	
SANM	42	617	902	0	0.00%	0	0.00%	0	0.00%	0	0.00%	24	57.14%	247	40.03%	\$1,397	\$345	\$0.052	0.67	1.97	0.67	na	0.73	0.0147	0.77	0.0100	0.00	na	na	na	na	na	3.63%	116
SAP	71	696	2,715	0	0.00%	0	0.00%	0	0.00%	0	0.00%	19	26.76%	123	17.67%	\$1,138	\$140	\$0.087	0.64	1.13	0.64	na	0.47	0.0127	1.00	na	2.00	0.0100	na	na	na	na	6.36%	358
SBC	198	2,728	4,082	0	0.00%	0	0.00%	0	0.00%	0	0.00%	154	77.78%	1,293	47.40%	\$2,229	\$2,882	\$0.064	0.85	2.44	0.85	na	0.55	0.0228	0.64	0.0100	0.70	0.0203	1.00	0.0400	2.29	na	2.80%	511
SBUX	986	6,896	10,009	3	0.30%	25	0.36%	0	0.00%	0	0.00%	624	63.29%	3,755	54.45%	\$3,115	\$11,697	\$0.087	0.80	2.58	0.77	22.00	0.83	0.0333	0.69	0.0263	0.72	na	0.64	0.0163	na	na	8.09%	1,109
SCH	42	940	1,636	0	0.00%	0	0.00%	0	0.00%	0	0.00%	27	64.29%	706	75.11%	\$1,857	\$1,311	\$0.056	0.70	3.14	0.70	na	0.64	0.0320	0.54	0.0200	na	na	0.80	0.0140	na	na	7.80%	179
SEBL	73	1,630	4,085	0	0.00%	0	0.00%	0	0.00%	0	0.00%	48	65.75%	559	34.29%	\$1,365	\$763	\$0.097	1.17	2.43	0.63	18.71	1.00	0.0178	2.57	0.0100	0.76	na	0.00	0.0100	1.00	na	5.21%	349
SEE	48	252	340	0	0.00%	0	0.00%	0	0.00%	0	0.00%																							

Class	Orders	Contracts	Total Contracts	Orders Unfav. (ALL)	Orders Unfav. % (ALL)	Contracts Unfav. (ALL)	Contracts Unfav. % (ALL)	Orders Unfav. (Limited)	Orders Unfav. % (Limited)	Contracts Unfav. (Limited)	Contracts Unfav. % (Limited)	Orders Improved	Orders Improved %	Contracts Improved	Contracts Improved %	Average Improvement	Total Improvement	Average Effective Spread	Time (average)	Time (average with 3 second PIPs)	Time (average without (ML))	Time (average (ML only))	Time (25 contracts or less)	Improvement \$ (25 contracts or less)	Time (26 - 50 contracts)	Improvement \$ (26 - 50 contracts)	Time (51 - 75 contracts)	Improvement \$ (51 - 75 contracts)	Time (76 - 100 contracts)	Improvement \$ (76 - 100 contracts)	Time (101 or more contracts)	Improvement \$ (100 or more contracts)	BOVOCC Market Share	BOC OCC ADV	
TASR	1,814	13,788	18,718	2	0.11%	38	0.28%	0	0.00%	0	0.00%	755	41.62%	5,201	37.72%	\$2,935	\$15,265	\$0.089	0.92	2.08	0.75	23.55	0.93	0.0324	0.96	0.0251	1.00	0.0238	0.51	0.0121	1.00	n.a	2.64%	2,057	
TE	13	78	78	0	0.00%	0	0.00%	0	0.00%	0	0.00%	8	61.54%	58	74.36%	\$4,328	\$251	\$0.081	1.01	3.32	1.01	n.a	1.01	0.0433	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	3.16%	23
TER	55	727	1,025	0	0.00%	0	0.00%	0	0.00%	0	0.00%	33	60.00%	337	46.35%	\$2,516	\$848	\$0.074	0.66	2.14	0.66	n.a	0.70	0.0213	0.55	0.0127	1.00	0.0600	n.a	n.a	n.a	n.a	n.a	5.41%	142
TGT	210	1,821	2,132	0	0.00%	0	0.00%	0	0.00%	0	0.00%	165	78.57%	1,426	78.31%	\$2,195	\$3,130	\$0.071	1.05	3.60	0.69	26.00	0.61	0.0289	3.11	0.0222	0.51	0.0150	0.50	0.0100	1.00	0.0200	8.06%	320	
THC	43	994	2,452	0	0.00%	0	0.00%	0	0.00%	0	0.00%	16	37.21%	247	24.85%	\$1,279	\$316	\$0.113	0.49	1.35	0.49	n.a	0.58	0.0150	0.38	0.0100	n.a	n.a	n.a	n.a	n.a	n.a	2.23%	133	
TIVO	39	348	454	0	0.00%	0	0.00%	0	0.00%	0	0.00%	4	10.26%	50	14.37%	\$1,300	\$65	\$0.073	1.40	1.97	0.72	22.00	1.53	0.0130	1.10	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	1.09%	21
TLAB	22	516	535	0	0.00%	0	0.00%	0	0.00%	0	0.00%	12	54.55%	224	43.41%	\$1,563	\$350	\$0.043	0.65	2.02	0.65	n.a	0.71	0.0154	0.53	0.0100	1.00	0.0200	n.a	n.a	n.a	n.a	n.a	2.98%	63
TMX	28	636	1,382	0	0.00%	0	0.00%	0	0.00%	0	0.00%	8	28.57%	101	15.88%	\$2,505	\$253	\$0.080	0.63	1.23	0.63	n.a	0.63	0.0145	0.63	0.0500	n.a	n.a	n.a	n.a	n.a	n.a	n.a	8.80%	268
TOY	27	567	1,162	0	0.00%	0	0.00%	0	0.00%	0	0.00%	4	14.81%	51	8.99%	\$1,000	\$51	\$0.101	1.19	1.46	0.43	22.00	3.28	0.0100	0.48	0.0100	n.a	n.a	n.a	n.a	n.a	n.a	n.a	1.44%	87
TSM	44	1,409	1,801	0	0.00%	0	0.00%	0	0.00%	0	0.00%	30	68.18%	970	68.84%	\$1,309	\$1,270	\$0.042	0.60	3.04	0.60	n.a	0.74	0.0180	0.42	0.0161	1.00	n.a	1.00	n.a	0.53	0.0100	10.39%	113	
TTWO	70	433	614	0	0.00%	0	0.00%	0	0.00%	0	0.00%	39	55.71%	186	42.96%	\$2,247	\$418	\$0.098	0.62	2.12	0.82	n.a	0.82	0.0225	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	2.18%	80
TWX	184	3,659	5,638	0	0.00%	0	0.00%	0	0.00%	0	0.00%	142	77.17%	2,137	58.40%	\$2,275	\$4,861	\$0.059	0.80	2.76	0.80	n.a	0.77	0.0248	0.77	0.0195	0.70	0.0300	0.90	0.0195	1.00	0.0200	3.03%	667	
TXN	345	17,213	19,102	0	0.00%	0	0.00%	0	0.00%	0	0.00%	158	45.80%	13,433	78.04%	\$1,977	\$26,553	\$0.029	0.23	3.27	0.22	41.00	0.70	0.0276	0.65	0.0190	0.21	0.0200	0.62	0.0143	0.02	0.0194	8.47%	2,220	
TXU	85	505	709	0	0.00%	0	0.00%	0	0.00%	0	0.00%	50	58.82%	227	44.95%	\$2,612	\$593	\$0.169	4.46	5.99	0.55	40.00	0.55	0.0261	40.00	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	5.57%	185
TYC	148	1,710	1,932	0	0.00%	0	0.00%	0	0.00%	0	0.00%	110	74.32%	1,193	69.77%	\$2,329	\$2,779	\$0.067	0.47	2.97	0.47	n.a	0.46	0.0227	0.31	0.0370	1.00	n.a	0.67	0.0133	n.a	n.a	2.90%	391	
UNH	184	1,381	1,831	0	0.00%	0	0.00%	0	0.00%	0	0.00%	114	61.96%	946	68.50%	\$1,983	\$1,876	\$0.095	0.56	2.92	0.56	n.a	0.69	0.0256	0.73	0.0155	n.a	n.a	n.a	n.a	0.00	0.0100	11.12%	505	
UNTD	11	141	141	0	0.00%	0	0.00%	0	0.00%	0	0.00%	9	81.82%	119	84.40%	\$1,655	\$197	\$0.059	0.77	1.38	0.77	n.a	0.68	0.0195	1.00	0.0100	n.a	n.a	n.a	n.a	n.a	n.a	n.a	7.95%	14
UPS	307	6,203	14,490	0	0.00%	0	0.00%	0	0.00%	0	0.00%	45	14.66%	422	6.80%	\$1,630	\$688	\$0.081	0.95	1.23	0.54	23.16	0.90	0.0204	0.46	0.0123	0.00	0.0100	6.71	n.a	0.47	n.a	6.80%	1,844	
USB	33	923	2,079	0	0.00%	0	0.00%	0	0.00%	0	0.00%	20	60.61%	386	41.82%	\$2,492	\$962	\$0.121	0.72	2.06	0.72	n.a	0.51	0.0387	0.71	0.0100	0.54	0.0100	1.00	0.0200	1.00	n.a	9.73%	388	
USG	193	1,639	2,059	0	0.00%	0	0.00%	0	0.00%	0	0.00%	106	54.92%	632	38.56%	\$2,848	\$1,800	\$0.121	0.66	1.92	0.66	n.a	0.67	0.0301	0.49	0.0145	n.a	n.a	n.a	n.a	n.a	n.a	n.a	2.42%	185
UTSI	234	1,388	1,847	0	0.00%	0	0.00%	0	0.00%	0	0.00%	41	17.52%	277	19.96%	\$2,152	\$596	\$0.085	0.52	1.21	0.52	n.a	0.57	0.0183	0.27	0.0264	n.a	n.a	n.a	n.a	n.a	n.a	n.a	4.49%	203
UTX	243	2,002	2,743	1	0.41%	3	0.15%	0	0.00%	0	0.00%	144	59.26%	1,087	54.30%	\$2,096	\$2,278	\$0.078	0.94	2.66	0.78	32.00	1.03	0.0218	0.81	0.0207	1.00	0.0100	0.72	0.0217	n.a	n.a	14.75%	806	
VIAB	78	862	1,064	0	0.00%	0	0.00%	0	0.00%	0	0.00%	54	69.23%	444	51.51%	\$2,766	\$1,228	\$0.058	0.46	2.44	0.41	46.00	0.50	0.0248	0.42	0.0333	n.a	n.a	n.a	n.a	n.a	n.a	n.a	6.13%	458
VLO	328	4,774	4,990	0	0.00%	0	0.00E+00	0	0.00%	0	0.00E+00	273	83.23%	4,143	86.78%	\$2,474	\$10,249	\$0.085	0.70	3.55	0.70	19.00	0.80	0.0286	0.75	0.0155	1.00	0.0199	1.00	0.0183	0.00	0.0200	5.52%	533	
VOD	35	653	728	0	0.00%	0	0.00%	0	0.00%	0	0.00%	13	37.14%	76	11.64%	\$1,276	\$97	\$0.100	0.42	0.84	0.42	n.a	1.04	0.0158	0.56	0.0100	0.00	n.a	0.00	n.a	n.a	n.a	n.a	19.34%	193
VRSN	239	3,341	5,139	0	0.00%	0	0.00E+00	0	0.00%	0	0.00E+00	153	64.02%	1,833	54.86%	\$2,158	\$3,956	\$0.067	0.82	2.57	0.82	n.a	0.91	0.0228	0.70	0.0187	1.00	n.a	0.00	0.0124	0.00	n.a	4.66%	524	
VRTS	64	975	3,866	0	0.00%	0	0.00%	0	0.00%	0	0.00%	21	32.81%	292	29.95%	\$1,829	\$534	\$0.215	0.73	1.69	0.73	n.a	0.64	0.0200	0.80	0.0144	n.a	n.a	n.a	n.a	n.a	n.a	n.a	3.00%	248
VSH	13	209	348	0	0.00%	0	0.00%	0	0.00%	0	0.00%	4	30.77%	35	16.75%	\$1,143	\$40	\$0.079	0.60	1.11	0.60	n.a	0.54	0.0114	0.66	n.a	n.a	n.a	n.a	n.a	n.a	n.a	n.a	2.94%	73
VZ	259	3,808	4,723	0	0.00%	0	0.00%	0	0.00%	0	0.00%	222	85.71%	2,614	68.64%	\$1,968	\$5,145	\$0.055	0.64	2.97	0.64	n.a	0.54	0.0213	0.85	0.0236	1.00	n.a	0.60	0.0100	n.a	n.a	1.87%	935	
WAG	195	3,022	3,211	0	0.00%	0	0.00%	0	0.00%	0	0.00%	142	72.82%	2,447	80.97%	\$1,673	\$4,095	\$0.056	0.89	3.40	0.89	n.a	0.67	0.0257	0.53	0.0168	1.37	0.0154	0.85	0.0139	1.26	0.0114	6.64%	400	
WB	43	600	1,065	0	0.00%	0	0.00%	0	0.00%	0	0.00%	35	81.40%	326	54.33%	\$2,574	\$839	\$0.106	0.84	2.61	0.84	n.a	0.49	0.0233	0.81	0.0357	1.27	0.0200	n.a	n.a	n.a	n.a	n.a	8.05%	307
WFC	149	2,290	2,503	0	0.00%	0	0.00%	0	0.00%	0	0.00%	96	64.43%	1,434	62.62%	\$1,872	\$2,684	\$0.059	0.68	2.72	0.67	17.00	0.65	0.0282	0.65	0.0161	1.00	n.a	0.71	0.0133	n.a	n.a	2.63%	645	
WM	257	2,579	4,926	0	0.00%	0	0.00%	0	0.00%	0	0.00%	193	75.10%	1,835	71.15%	\$1,889	\$3,467	\$0.046	0.76	3.06	0.76	n.a	0.62	0.0228	0.72	0.0113	1.00	0.0136	1.00	0.0223	1.00	0.0161	5.78%	350	
WMB	59	557	946	0	0.00%	0	0.00%	0	0.00%	0	0.00%	32	54.24%	306	54.94%	\$2,281	\$698	\$0.081	0.65	2.58	0.65	n.a	0.69	0.0203	0.38	0.0300	n.a	n.a	n.a	n.a	n.a	n.a	2.88%	133	
WMT	250	5,440	8,281	0	0.00%	0	0.00%	0	0.00%	0	0.00%	129	51.60%	1,753	32.22%	\$1,694	\$2,970	\$0.066	0.97	2.09	0.70	28.65	0.85	0.0238	2.83	0.0132	0.84	0.0100	0.75	n.a	0.51	0.0100	4.94%	1,072	
WYE	114	1,678	3,161	0	0.00%	0	0.00%	0	0.00%	0	0.00%	66	57.89%	1,048	62.46%	\$1,633	\$1,711	\$0.071	0.40	2.74	0.40	n.a	0.56	0.0265	0.68	0.0100	n.a	n.a	0.00	0.0100	0.00	0.0100	5.49%	315	
X	236	3,100	4,942	0	0.00%	0	0.00%	0	0.00%	0	0.00%	125	52.97%	1,469	47.39%	\$2,587	\$3,800	\$0.086	0.60	2.24	0.60	n.a	0.79	0.0232	0.88	0.0129	0.37	0.0200	0.00	0.0500	0.40	0.0300	4.11%	619	
XLNX	165	1,379	1,763	0	0.00%	0	0.00%	0	0.00%	0	0.00%	88	53.33%	473	34.30%	\$2,000	\$946	\$0.065	0.73	1.88	0.73	n.a	0.79	0.0196	0.71	0.0238	1.00	0.0138	0.50	n.a	n.a	n.a	n.a	6.76%	581
XMSR	783	6,862	13,447	1	0.13%	2	0.03%	0	0.00%	0	0.00%	418	53.38%	2,223	32.40%	\$2,809	\$6,245	\$0.094	0.98	2.03	0.97	16.00	0.74	0.0277	1.84	0.0329	0.56	n.a	1.05	n.a	5.00	n.a	5.09%	873	
XOM	389	10,599	11,687	0	0.00%	0	0.00%	0																											