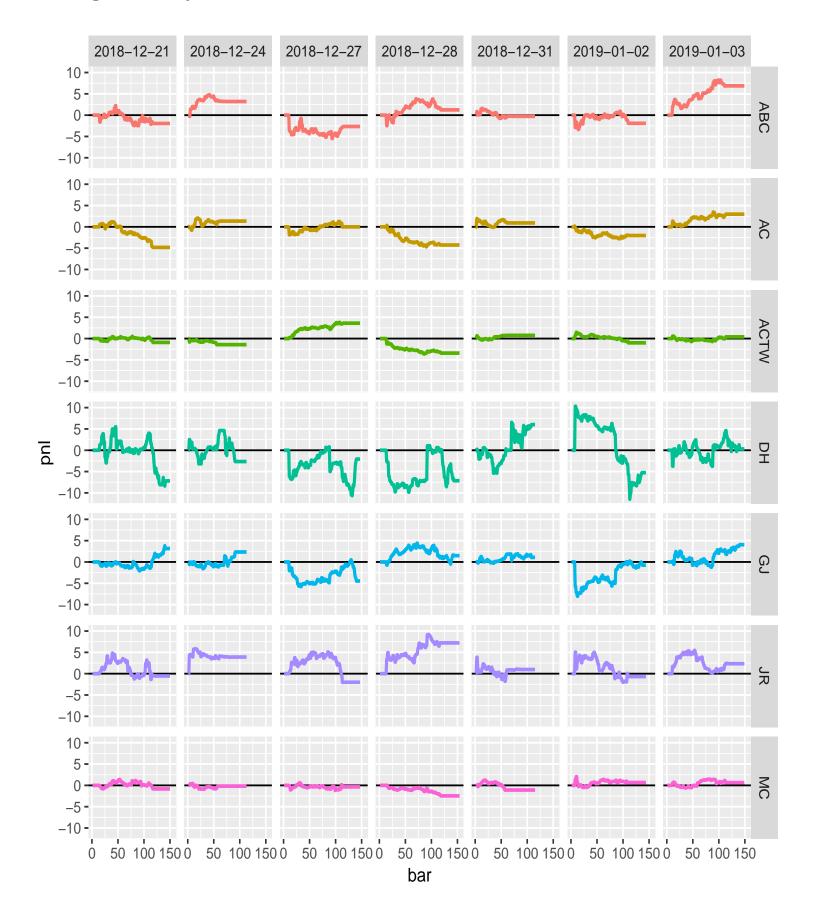
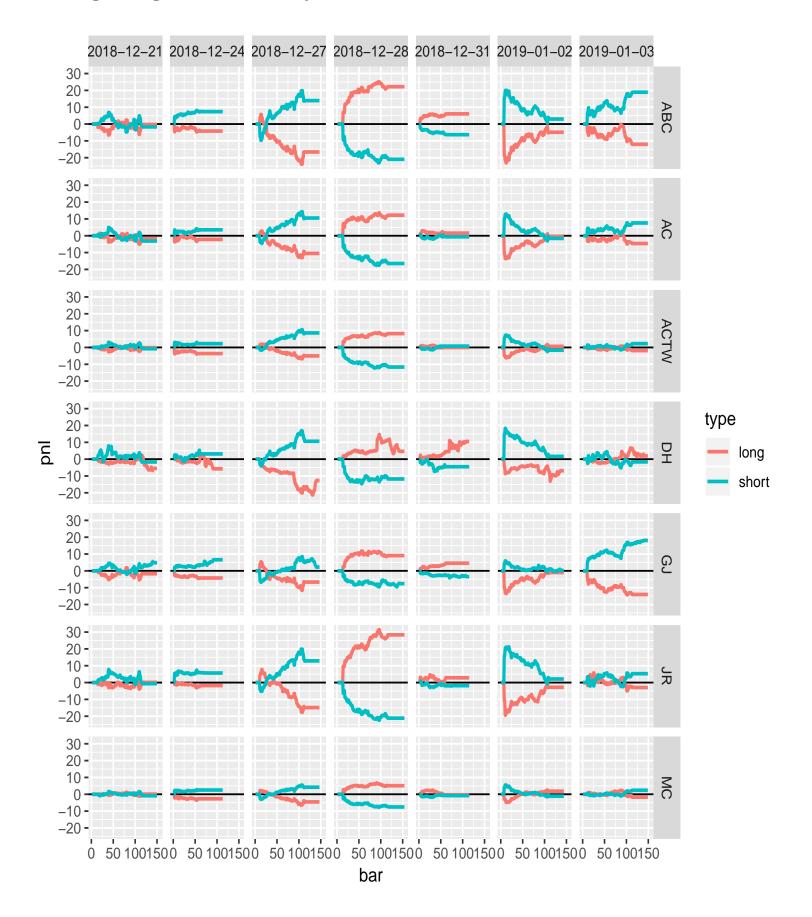
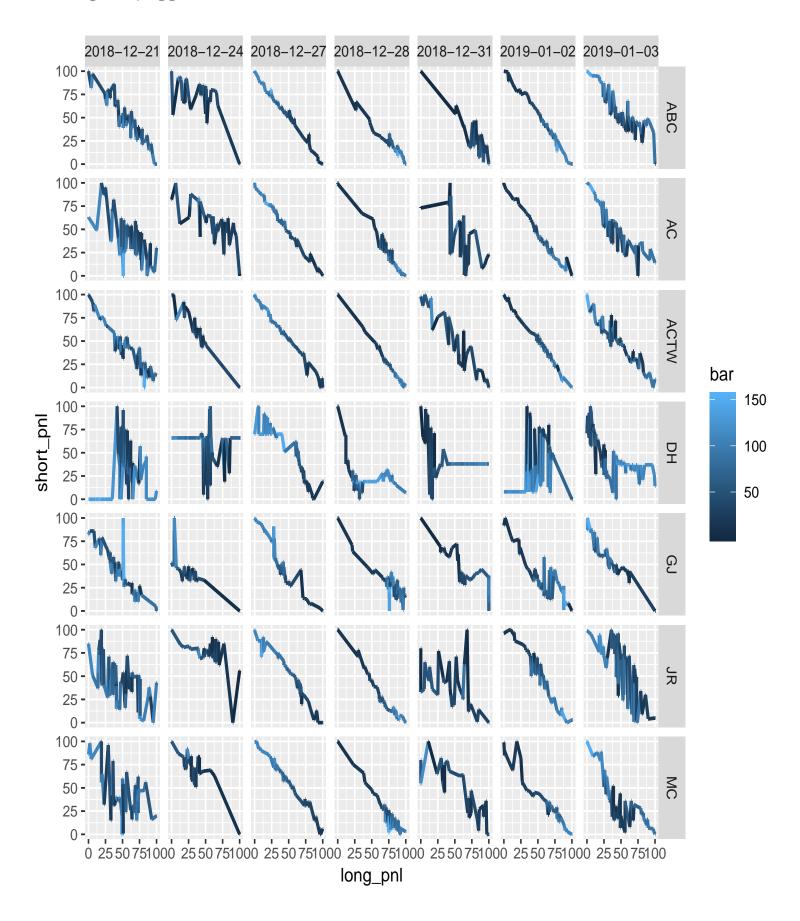
Manager intraday



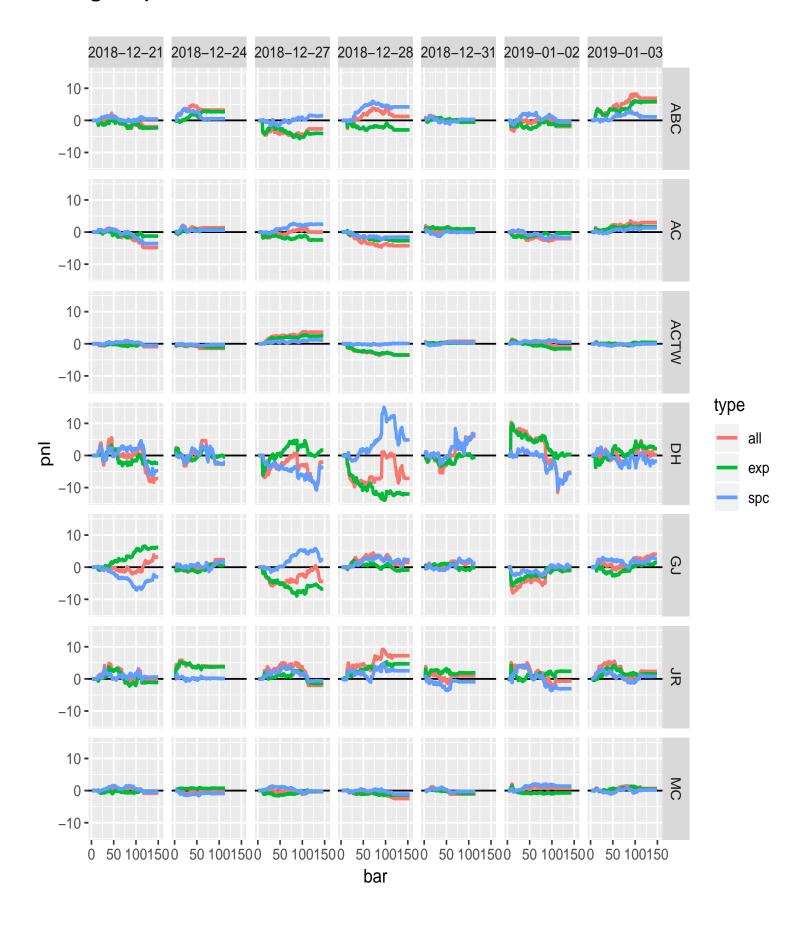
Manager long vs short intraday



Manager squiggle



4 Manager explain



5 P&L explain



6 Position summary

	subset	net	gross	cor whole period	cor 90pct quantile	cor 10pct quantile	cor 2 week	cor 90pct quantile	cor 10pct quantile
				2y SXXP	2y SXXP	2y SXXP	SXXP	2 week SXXP	2 week SXXP
	100								
1	ABC	38	2,330	-14.4	-9.5	-18.8	-11.8	1.7	-32.4
2	AC	8	1,435	-9	-4.9	-13.3	-4.1	3	-11.6
3	ACTW	-75	939	-41.7	-37.6	-45.1	-52	-45.4	-59.3
4	DH	-91	1,558	-25.4	-20.7	-28.5	-41.7	-29.1	-50
5	GJ	78	1,241	45.5	49.3	41.1	39.8	48.6	20.7
6	JR	-18	2,012	-9.4	-5.7	-12.4	-31	-13.5	-41.5
7	MC	78	760	-13.1	-8.3	-16.1	-25.5	-12.6	-31.7
8	*	19	10 274	-18 8	-14 1	-22.2	-41 8	-36.3	-45 7

7 Pair risk contribution

	2Y MRC	1Y MRC			GRS	ACT	RP	Vol	Cum 2Y	Cum 1Y	Vol traj																			COR	COR				
	risk	risk	pair	stock	pct	gross	gross	daily		marg	marg	3 219				63			D E 146 -1		F I 65 18			N -372		P 141	Q				2 wk	Perf 3m		Perf 1w	HR 1m
	cntr	cntr pct			tot	bps	bps	bps	risk pct	risk pct	risk sea	219	-3	-32	-141	03	105	22	140 -1	.40	05 10	0 05	21	-312	-5	141	-99	-100			10min	JIII	1111	144	1111
1	41.4	19	JR15	LBK	2.5	235	9	2.9	41.4	19	46.2	0	0	0	-11	-	-	-	0 0		0 0	0	0	0	0	0	0	0	0	12	30	8	15		100
2	8.3 4.6	3.7 10.1		LBK RSA	1.1	102 236	19 26	1.3	49.8 54.4	22.7 32.8	47.1 38.91	-5	0 -1	0 -4	-15	-			0 0 -14 -2		0 0 3 11	0 1 -4	0 -4	-8	0 -2	0 -9	0 -13	-3	0 -5	-2 42	-21 43	7 -5	8 -2		100 67
4	3.2	3.7		RI	2.3	222	32	0.8	57.6	36.5	35.03			-42	0				0 0) (0 0	0	0	0	0	0	-25	0	0	39	35	3		-2	75
5 6	2.7 2.4	5 4.5		JUP	2.5	242 192	36 31	0.7	60.3 62.8	41.5 45.9	31.08 27.96	66 0	-3 0	-2 0	0			_	-4 -3 0 0		0 -2 -8 0	-2 0	0	-4 0	-1 0	0	-34 0	-1 0	0	26 7	17 18		-1 -5		60 50
7	2.1	3.8		HSBA RWE	1.6	149 216	26 25	1	64.9 66.9	49.7 52.9	24.96 24.32	0	0 -7	0 109	-4 -10				0 C		0 0 0 -6	0 -5	0 -1	0 -9	0	0	0 -9	0 -19	0	3 63	25 77		-3 5		43 50
9	1.9	4.1	ABC8	RSA	1.7	164	39	0.7	68.8	57	23.55	-3	-1	-1	-2	-2	-7	0	-4 -2	-:	·23 75	-1	-2	-19	-1	-1	-3	-4	-6	41	32	1	-1	-1	44
10 11	1.8 1.8	4.2 2.6		REC BG	2 1.8	190 168	27 33	0.9	70.6 72.5	61.2 63.8	21.79 21	0	-7 -7	-2 -4	-2 75				78 0		·1 -2 0 -6	-2 -4	-2 -1	-13 -9	-1 -2	-1 0	-2 -8	-2 -3	0	11	-15 -6	2	9		50 55
12	1.8	0.9	AC57	LAND	2.2	211	34	0.8	74.3	64.8	19.47	0	0	0	0	0	47	0	0 0) (0 0	0	0	0	0	0	0	0	-38	29	17	6	3	-1	58
13 14		4.5 2.7		DB1 ITRK	1.7	166 154	29 33	0.9	75.9 77.5	69.3 71.9	18.96 18.14	0	9	3	0				0 0		65 -28 2 10		0	-29 - 63	0	0	5	0	0	34 26	6 44		-2 -5		54 50
15 16		2.1		RDSA MRL	2.1	200 186	52 34	0.5 0.8	79 80.5	74 76.3	17.74 16.38	-1 0	0	-1 - 75	-4 -12				-4 1 -1 -3		1 -2 0 0	-1 -4	-1 0	-2 -1	0 -2	-2 -1	-3 0	-1 -4	-1 -1	19 52	20 28	4 -5	2 -1		53 50
17	1.5	0.3	JR10	BIRG	1.6	150	24	1.1	82	76.6	16.29	-1	0	-1	21	0	0	0	-2 -3		0 -1	-1	-1	-1	0	-2	-2	-1	-1	21	-16	-15	-2	-1	47
18 19		2.2 1.4		SX86E SREN	1.8	174 201	47 46	0.5	83.4 84.7	78.8 80.2	15.79 15.24	-3 0	-5 0	-3 0	-6 -31	-			-6 -4 0 0		0 -4	-3 0	-1 0	-6 0	-2 0	0	-6 0	-33 0	0	93 38	95 67	2	1		50 53
20 21		1.4 0.3	ABC29	EXO VOW3	2.1	202	32 35	0.8	85.9 87	81.5 81.8		-1 0	0	-9 -2	-14 -1	-2		-35	-1 -9 -7 C		98 -5	-1 -3	0	-21 -9	0	-1 0	-3 -4	0	0	27 58	33 73	-5 5	-2 -1	-1	50 48
22	1	1.2		BP/	1.6	157 155	67	0.4	88	83		-1	0	-1	-4				-3 -9		1 -1	-3	-1	-2	0	19	-3	-1	-1	59	42	4	2	-0	50
23	1 0.8	1.4	ABC47 AC122	CA RIO	1.1	106 175	37 28	0.7	89 89.8	84.4 84.4		-3 -3	-2 0	-2 -2	-4 -8				-5 -6 -7 -1		0 -2	-1 -2	-1 -2	-7 -4	-3 -1	-1 66	-6 -7	52 -2	-1 -3	30 84	31 71	5 10	4		52 54
25	0.7	1	ABC9	BBY	1.4	134	33	0.8	90.5	85.4	12.91	-1	0	0	-1	-1	-3	0	-1 -1	!	9 -2	0	-1	-7	43	0	-1	-1	-2	19	28	-2	3	-1	56
26 27	0.7	0.7 1.7	GJ13 GJ7	VIV ERF	1.6	155 129	33 28	0.8	91.2 91.9	86.1 87.8	12.6 12.22	-1 0	-2 0	-1 0	-3 0			-1 0	-3 -2 72 0		0 -2	-1 0	39 0	-3 - 57	-1 0	0	-3 0	-1 0	0	20 4	27 -19	4 -18	1 -4		58 56
28 29	0.6 0.6	1 -0.4		AALB FERG	1.3 1.4	126 132	46 36	0.5 0.7	92.5 93.1	88.8 88.4	14.15 13.45	0	0	0	0			0	0 0		0 0	0	0	-7 76	0 -46	0	0	0	0 -10	6 37	6 30		-1	-0	54 52
30	0.5	1	AC96 GJ16	TITR	1.4	93	42	0.6	93.6	89.4		-1	0	-7	-10			-5	0 -7		-1 -4	49	0	-4	0	-1	-2	0	0	43	37		-4		50
31 32	0.5	1 0.6	GJ22 GJ29	CAP	1.4	130 121	34 39	0.7	94.1 94.5	90.4 90.9	12.83 12.31	-1 4	0	0	0 5	28		0	-3 C		0 0 0	0	-1 2	-1 8	0	0	-1 7	-2 2	-1 - 59	19 32	24 20	-9 -8	-12 -2		48 47
33	0.4	0.6	ABC45	SHL	1.1	104	46	0.6	95	91.5	11.98	0	0	0	0	0	0	0	51 0) (0 0	0	0	-32	0	0	-21	0	0	28	28	11	3	-1	48
34 35	0.4	0.5		ABF BT/A	0.9	86 93	59 37	0.4	95.3 95.7	92 92.4	11.75 11.42	42 -1	0 -1	0 -1	-1			0	0 C -2 -1		2 0	0 50	-1	-1 -9	0 -1	-1	-1	-37 -2	0 -3	30 64	32 75	9	-1 -2		47 46
36 37	0.4	1.2 0.4		HSTG DSY	0.8	78 92	42 58	0.6	96 96.4	93.6 94	11.35 11.01	0	0 6	0	0	0 -35		0	0 0		0 18 1 6	0	0	0	0	0	0	0	0	13 47	14 54	-11 2	3		47 49
38	0.3	-0.4	JR16	MAP	1.5	146	45	0.6	96.7	93.6	10.8	0	0	0	0	0	0	0	0 0) (0 1	0	0	0	0	0	0	0	0	3	0	1	1	-1	50
39 40	0.3	0.6		SSPG BNZL	0.9	82 67	51 87	0.5	96.9 97.2	94.3 94.5	10.43 10.24	0 21	0	0	0	-		0	0 0		0 0	0	0	-11 -25	0	0	0	0	13 -20	-7 41	-13 67	-2 -1	0		51 52
41	0.3	0.3	ABC40	IAG	8.0	75	45	0.6	97.5	94.8	10.03	0	0	0	0	-		0	0 0		0 0	0	0	0	0	0	0	0	-13	14	26	-5	-2	1	51
42	0.2	0.3	MC122 ABC33	SIGC JMAT	0.7	67 64	86 55	0.3	97.7 97.9	95.1 95.1	9.77 9.46	0	0 34	0	-27 0			0	0 0		0 0	0	0	-30	0	0	0	0	0	61 20	89 16	0	0		52 51
44 45	0.2	-0.2 0.3	MC172 ACTW37	RIO BKG	0.9	86 66	50 93	0.5	98.1 98.2	94.9 95.2	9.19 8.96	-2 -1	0	-1 0	-5 -1				-5 -7 -1 -1		-1 -2 -9 -2	-2 0	-2 -1	-3 1	-1 0	41 0	-5 25	-1 -1	-2 -2	89	84 1	3	2		52 53
46	0.2	0.3	ABC38	RR/	0.9	90	49	0.5	98.4	95.5	8.65	0	0	0	0	0	0	0	0 0) (0 0	0	0	-7	0	0	0	0	0	7	-17	1	1	-1	54
47 48	0.2	0.3 1.9	AC121 GJ26	TW/ SAP	0.8 1.7	80 159	88 30	0.3	98.6 98.7	95.8 97.7	8.7 8.56	0 -3	0	-1	0	-			0 C		0 0	-2	-6	-8	0	0	-3	0 -9	0 -6	12 20	-2 31	-4 -2	2		55 56
49 50	0.1	0.2	ABC35 DH63	PRU ANIM	0.9	86 72	93 59	0.3	98.8 99	97.9 98.4	8.42 8.17	0 -1	0	0 -7	-25 -10	-		0 -5	0 0		0 8 28 -4	0	0	0 -4	0	0 -1	0 -2	0	0	18 23	20 37		-1 -1		55 54
51	0.1	0.2	ACTW26	ABF	0.5	49	103	0.2	99.1	98.5	7.9	24	0	0	0			0	0 0) (0 0	0	0	0	0	0	0	-25	0	33	38	2	0	0	55
52 53	0.1	0	DH58 ACTW6	TEN LAND	0.9	85 91	51 188	0.5	99.2 99.4	98.6 98.7	8.98 8.78	0	0	0	0			0	0 -4		0 0	0	0	0	0	41 0	0	0	0	20 22	28 15	-10 2	-3 1		54 55
54 55	0.1	0.3	AC115	WEIR BBY	0.6	61	64	0.4	99.5	98.9	8.55	0	0	0	0			0	0 0		0 0	0	0	-4 -4	0	0	0	0	0	-4 14	-22 18		-1	1	54
56	0.1	0.2		BATS	0.7	68 62	86 84	0.3	99.6 99.7	99.1 99.2	8.35 8.26	1	0	0	0	-	-	0	0 0		·5 -1 0 0	0	0	0	0	0	-10 0	0	0	12	-15	7	2	_	55 55
57 58	0.1	0.3	MC158 AC126	CNA JMAT	0.6	60 65	73 49	0.3	99.8 99.9	99.6 99.4	8.03 7.88	0	0	15	0	-	-	0	-1 C		·4 -1 0 0	0	0	-3 0	0	0	0	-1	-1 0	30 4	30 12	1 2	1		56 57
59	0.1	0.1	ACTW5	CPG	0.5	50	118	0.2	100	99.5	7.73	15	0	0	0	0	-	0	0 0		0 0	0	0	0	0	0	11	0	-25	60	66	-0	-0	-0	56
60 61	0.1	0	ACTW35 MC167	SMIN MRW	0.8	75 43	95 128	0.3	100.1 100.2	99.5	7.53 7.27	-1 0	0	-1 0	-3 0	-	-		-3 -3 0 0		·3 -1 0 0	-1	-1 0	0	0	-2 0	-2 0	-1 -5	-2 0	28 26	54 46	-0	1 -1		57 56
62 63	0.1	0.2		MCX SSE	0.6 1.1	56 109	164 52	0.2	100.2 100.3		7.27 7.28	-1 0	0	0 -2	-1 0		-	0	-1 -1 0 0		8 25 0 0	0	-1 0	-7 0	0	0	-1 0	-1 0	-2 0	53	46 11	2	0		56 56
64	0.1	0.1	DH66	NESTE	0.5	44	75	0.3	100.4	100.1	7.38	0	0	0	0	0	0	0	0 2		0 0	0	0	0	0	0	0	0	0	-7	-37	3	1	1	56
65 66	0.1	0.1	ABC7 MC160	MC AVV	0.2	24 40	94 82	0.3	100.4 100.5		7.36 7.13	0	0	0	0	-	-	0	0 0		0 0	0	0	-20	0	0	-24 0	0	0	72 12	83 26	3	1 -0		57 56
67 68	0	0.2	MC89 GJ25	TMO FCM	0.4	39 86	72 46	0.4	100.5 100.6			0	0	0	0	-	_	-	0 0		2 0	0	32 0	-1 -39	0	0	0	0	0	-1 18	-27 45		-2 -1		55 54
69	0	0.1	ACTW20	MRW	0.4	37	114	0.2	100.6	100.6	7.48	-11	0	0	0		-	0	0 0		0 0	0	0	0	0	0	0	9	0	0	6	-2	-2	-1	54
70 71		-0.5 0.5	JR32 JR43	ABN ALV	1.7	165 136	37 70	0.7	100.6 100.7		7.31 7.24	0	0	0	-21 0	0		0	0 0)	0 0 0 19	0	0	0	0	0	0	0	0	11 46	-1 26	0	1 -1		54 54
72 73		0	AC99 DH62	IBST DAI	0.3	30 27	157 228	0.2	100.7 100.7	100.6	7.42	0	-1 0	-1 0	0				-1 C		·1 -1 0 0	0	-1 0	-4 -11	12 0	-1 0	-1 0	-1 0	-1 0	5 89	-16 95	1	0 -1		54 53
74	0	0.1	MC173	TW/	0.3	24	209	0.1	100.8	100.6	7.8	0	0	0	0	0 -	-1	0	-1 C) -:	-3 -1	0	0	-3	0	0	12	-1	-1	4	-4	-0	1	0	54
75 76		0		PHNX	0.3	28 23	460 91	0.1	100.8 100.8			0	0	0	0			0	1 1		16 6 0 0	0	0	0	0	0	0	0	0	58 -14	45 14	-0 2	-0 0		53 54
77	0	0	MC149	SGRO	0.3	31	164	0.2	100.8	100.7	8	0	0	0	0	0	20	0	0 0	-:	-3 -1	0	0	-2 0	0	0	0	0	-1	63	57	1	0	0	55
78 79		0		SAB METSO	0.2	16 38	326 90	0.1	100.8 100.8			0	0	0	0			0	0 0		0 0	0	0	20	0 -19	0	0	0	0	-2 7	-18 9	-0 -1	0		55 56
	0	0		BNZL CARLB		30 24	150 145	0.2	100.8 100.8			0 -24	0	0	0			0	0 0		0 0	0	0	-17 0	0	0	13	0	0	48 51	61 54	0	-0 1		55 56
82	0	0	DH32	TPZ	0	4	451	0.1	100.8	100.7	7.55	0	0	0	0	0	0	0	0 0) (0 0	0	0	0	0	0	0	0	4	8	-12	1	1	-0	56
83 84		0	ACTW28 MC132	NG/ GLO		71 18	137 163	0.2	100.8 100.8			0	0	-7 9	0			0	0 0		0 0	0	0	-2	0	0	0	0	0	-11	28 6	1	-1 0		55 56
85	0	0	ACTW17	REL	0.3	32	268	0.1	100.8	100.6	7.95	0	0	0	0	0	0	0	0 0) (0 0	0	-6	0	0	0	0	0	0	51	46	1	0	-0	56
	0	0.2	GJ4	GLO ASML	0.6	19 61	70	0.4	100.8 100.8	100.8	8.06	0 -1	0	9	0	18	0		0 C) (3 0 0 0	0 -1	-2	-2 -3	0	0		-3	-1 -2	-10 38	7 41		-0	-0	57 56
88 89		0	ACTW22 MC53	SXS ELTA	0.2	22 56	241 63	0.1	100.7 100.7			0	0 10	0	0			-6 0	0 C		0 0 26 -1	0	0	-1 -3	0	0	0	0	0 -1	49 0	53 -6		-0 -4		56 55
90	0	0	AC128	MGGT	0.2	21	103	0.2	100.7	100.7	7.92	0	0	0	0	0	0	0	0 0) (0 0	0	0	21	0	0	0	0	0	53	68	-3	-2	-0	54
91 92		0		PRSM LSE		14 55	108 101	0.2	100.7 100.6			0	0	0	0			0	0 0		6 0 20 -21	0	0	0	0	0	0	0	0	0 29	-1 26	-2 1	1		55 55
	0	-0.1 0.2		SGE EL	0.5	46 61		0.2	100.6 100.6	100.7	8.18	-1 0	0	-1 -3	-3 -5	17 -		0	-3 -4 41 -3	-:	2 -1	-1 0	-1 0	-3 -2	0	-2 0	-3 -1	-1 0	-1 0	40 28	57 41	3		-1	56 55
95	0	0	MC162	ULVR	0.4	35	117	0.2	100.5	101	8.11	0	0	0	0	0 -	-1	0	0 0) -:	2 0	0	0	-7	0	0	21	0	-1	62	56	2	-0	-0	55
	-0.2 -0.2	-0.2 -0.2	JR45 AC111	CS BA/	1.6 0.8	157 73	35 48	0.7	100.4 100.2			0	0	0	0			0	0 0		0 11 0	0	0	0 30	0	0	0	0	0	20 30	46 41	-18 -9			54 55
	-0.2	-0.5		AIR	1	91	52	0.5	100			0	0	0	0				0 0		0 0	0	0	6	0	0	0	0	0	24	18	-6			54

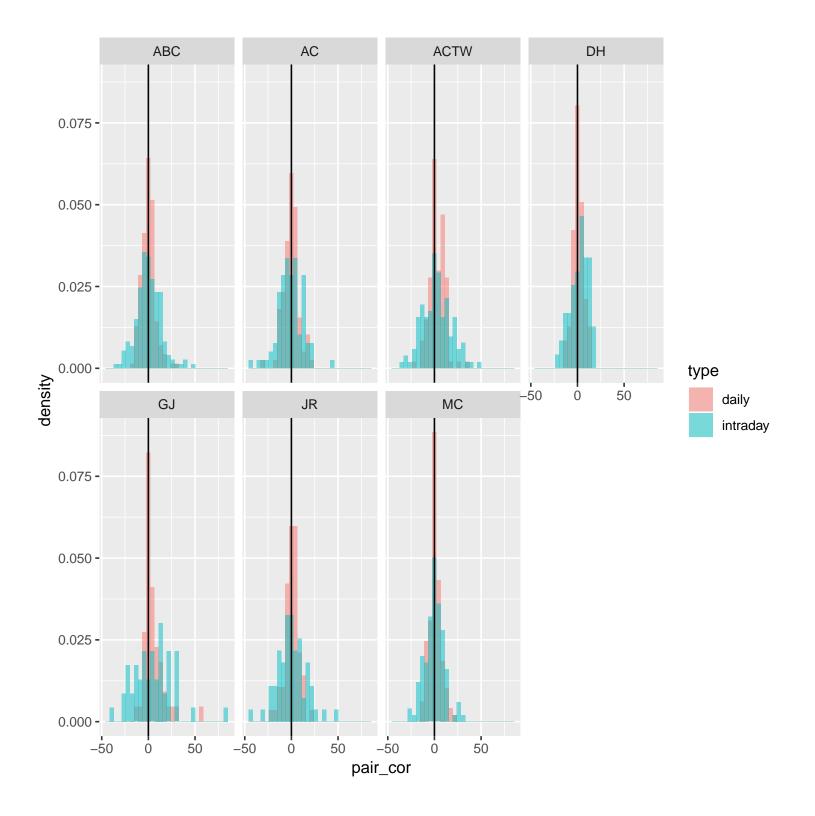
Pair hedge stability table: topmost pairs have "looser" hedges

											k hedge and dire	ctional stabili	ty		
				cor whole	cor 90pct	cor 10pct	cor confidence	cor whole	cor 90pct	cor 10pct	cor conficence	vol of	vol of	has	2 week
	pair	net	gross	period 2 year	quantile 2 year	quantile 2 year	interval 2 year	period 2 week	quantile 2 week	quantile 2 week	interval 2 week	vol	vol	index position	P&L
				SXXP	SXXP	SXXP	SXXP	SXXP	SXXP	SXXP	SXXP	2 weeks	2 years	position	
1 2	ACTW40 ABC9	0.2 11.4	62 134	-10.2 19.3	-6.4 22.5	-13.2 15.8	6.8 6.7	-28.9 32.1	-4.1 45.3	-41.6 10.1	37.5 35.2	8 6.3	19.6 21.1	•	1.9 -1.5
3	GJ22	18.8	130	19.5	24	15.0	8.8	35.7	50.6	10.1	39.7	5.8	18.5	•	-4.7
4	ACTW2	-35.1	432	9	12.9	5.2	7.7	16	28.7	-7.4	36.1	5.5	17.1	•	-0.7 -2.2
5 6	JR10 AC99	3.2 -4.7	150 30	14.2 -8.8	17.8 -5.8	10.7 -13.9	7.1 8.2	-19.1 12.5	4.5 34.1	-33.3 -0.2	37.8 34.2	4.9 5.3	15.3 23.7		0.1
7	MC143	0.1	23	-10	-6.2	-14.6	8.4	5.7	12	-11.1	23.1	8.6	30.5	•	1.1
8	JR46 ACTW34	-24.2 -11.3	201 46	-28.8 -21.6	-26.1 -18	-33.2 -25.9	7.1 7.9	-61.6 -33.8	-44.6 -20.8	-70 -46.2	25.4 25.4	7 6.7	17.2 29	•	2 -0.6
10	JR44	17.8	78	14.5	18.2	10.5	7.7	21.4	28.9	5.8	23.1	7.9	33.8		0.3
11 12	ACTW5 GJ7	0.8 15.1	50 129	8.8 15.6	13.3 19.6	2.9 11	10.3 8.6	-15.2 36.5	3.8 45.6	-29.1 17.7	32.9 27.8	4.3 4.9	25.3 19.1		-0.4 -0.3
13	MC53	24.5	56	-3.6	1.3	-6.8	8.1	-5	6.8	-14.8	21.7	10	21.3	•	-2
14 15	ACTW30 AC124	-3.7 -23.9	28 67	-29.3 -23.8	-25.5 -20.3	-33.9 -28.3	8.4 8.1	-1.1 -52.6	11 -38.4	-11.2 -65.6	22.3 27.2	7.3 4.4	16.3 17.3	•	-0.1 0.3
16	JR37	-4.0	149	0	3.6	-4.5	8.1	-22.8	-4.3	-32.9	28.6	4.1	20.7		3
17	ABC44	8.5	93	-1.7	1.7	-5	6.8	-1	13.2	-9.1	22.3	6.1	39	•	-1.6
18 19	ABC8 DH62	-6.1 5.7	164 27	-9.9 31.2	-5.6 35.1	-16 27.2	10.4 7.8	25.8 25.7	37 38.8	5.8 18.2	31.2 20.6	3.6 6.9	23.8 18.9	•	1 -0.4
20	GJ4	-2.9	61	35	39.6	30.6	9.1	42.7	49.7	30.1	19.6	7.5	15.6	•	0.2
21 22	GJ27 ACTW35	4.1 -14.8	154 75	16.3 -21.8	20.1 -17.2	12.2 -24.9	7.9 7.7	-15.5 -49.4	-2.4 -31	-24.3 -57.7	21.9 26.7	6 3.7	27.9 28.5	•	1.8 -1.1
23	DH20	-38.8	756	-24.4	-20.1	-28.8	8.7	-39.7	-26	-48.2	22.1	5.1	15.5		-5.2
24 25	JR18	0.4	168	-30.2	-25.3	-33.7	8.4	-27.3	-17.8	-35.7	17.9	7.5	13.7	•	3.5
26	JR36 DH66	-8.3 2.3	192 44	-8 -3.3	-4.4 1.1	-12.4 -9.7	8 10.8	-11.3 -34.1	0 -15.1	-22.5 -43.2	22.5 28	4.5 3.2	18.3 27.9		-0.9 0.6
27	DH65	0.9	242	2.4	6.2	-0.9	7	14.1	24.5	-1.2	25.7	3.8	14.1	•	-1.4
28 29	DH38 ACTW25	-28.3 -13.2	186 155	-28.2 -19.3	-23.5 -15.8	-32.1 -23.8	8.6	-12.7 -7.9	-3.5 2	-19.8 -24.2	16.3 26.2	16.7 3.4	13.9 16.1	•	0.8 -0.7
30	MC130	1.2	14	11	15.1	8	7.1	-0.8	10	-8.7	18.7	6.3	15.6		1
31 32	ACTW37 JR15	2.4 -11.5	66 235	-3.2 -6.8	0.2 -2.8	-7 -10.5	7.2 7.7	27.6 -21.1	37 -6.5	13.2 -33.2	23.7 26.6	3.6 3.1	20.1 43.5	•	0.9 4.4
33	MC172	2.2	86	16.5	19.6	12.9	6.7	36.9	46.3	20	26.3	3.2	14.4	•	-1.4
34	ACTW21	-3.4	30	-11.4	-8.9	-15.4	6.5	-33.3	-19.5	-41.8	22.2	3.9	25		0.2
35 36	ABC23 GJ28	10.2 10.0	216 92	6.5 22.1	9.7 26.4	3.7 16.8	6 9.7	-29.7 -16.7	-17.3 -3.8	-37.1 -25	19.7 21.2	4.6 4.1	20.1 25.2	•	1.8 1.5
37	ABC38	-6.8	90	-12.5	-8.2	-16.7	8.4	12.6	23.5	-10.7	34.1	2.7	26.1	•	-0.4
38 39	MC129 MC162	-0.7 7.2	55 35	-17.7 -0.5	-14.2 2.1	-21.8 -4	7.7 6.1	-16.4 -2.4	-0.1 13	-25.8 -10.5	25.7 23.5	3.1 3.2	19.8 37	•	0 -0.3
40	AC125	-3.7	174	-38.3	-34.6	-41.8	7.1	-47.3	-37.2	-54.1	16.8	6	12.6	•	-0.7
41 42	ABC42 ACTW6	-7.2 -3.5	126 91	-7.3 -16.5	-3.2 -13.3	-11.8 -20.1	8.6 6.8	-10.1 -17.7	-0.6 -8.7	-19.8 -28.1	19.1 19.4	4.1 3.8	18.4 14.4		-0.8 -0.2
43	AC122	-34.4	175	-9.4	-5.1	-13.9	8.8	-3.2	7.4	-18.8	26.2	2.8	14.7	•	-2.2
44	GJ29	0.5	121	17	20.7	14	6.7	31.6	41.8	11.4	30.4	2.4	42.6	•	-0.1
45 46	MC122 MC132	12.3 0.7	67 18	-44.4 -1.8	-40.4 2.3	-49.6 -6.6	9.2 8.9	-74.8 -13.1	-64.4 -5.6	-80 -20.7	15.6 15.1	6.5	17.6 21.9		0.1 -0.3
47	ABC43	5.7	91	18.4	22.1	14.7	7.4	11.2	27.9	-1.9	29.9	2.4	21		-0.2
48 49	ABC28 GJ16	-0.1 8.0	19 93	-4 3.1	0.2 6.7	-8.8 -1.5	9 8.1	-14.4 -6.6	-6.9 4.4	-21.8 -14.9	15 19.4	6.6 3.5	21.6 18	•	-0.3 -0.2
50	JR42	-1.4	236	-10.3	-6.4	-1.5	9.4	0.7	11.4	-14.5	25.9	2.5	23.5	- :	2.1
51	ABC40	-13.2	75	-14.7	-10.6	-18.9	8.3	-17	-9.9	-25.8	15.9	4.3	12.1		2.1
52 53	ABC46 ABC29	0.6 -2.5	157 202	11.8 25.8	15.9 29.7	8.9 22.3	7 7.4	8.6 15.9	16.9 22.5	-2.1 6.3	19 16.2	3.3 4.1	17.8 15	•	-3.3 0.3
54	ABC7	-23.6	24	-68.8	-67	-70.7	3.8	-78.4	-73.4	-81.2	7.9	7.9	16.5		0.5
55 56	AC123 GJ26	-2.2 -4.2	109 159	-3.3 29.8	0.8 34.4	-8.4 25.1	9.1 9.3	-18.4 24.1	-4.4 30.4	-28.1 15.8	23.7 14.6	2.6 5.9	24.3 16.6		-0.5 -1.5
57	ACTW20	-1.8	37	-4.4	-0.7	-8.1	7.4	-4.7	4.3	-12.5	16.9	3.8	23.3		-1.1
58 59	DH67 AC128	3.8 21.1	102 21	0.6 45.8	7.2 50.6	-3.6 41.3	10.8 9.3	-15.1 64.8	-2.4 69.7	-25.5 52.5	23.1 17.2	2.7 3.6	44.9 26.9	•	3.1 -0.7
60	AC57	8.3	211	-1.9	2	-5.5	7.5	6.3	20.4	-1.5	21.9	2.8	21.2		-1.1
61	GJ13	11.9	155	17	21.7	11.8	10	5.8	15.9	-10.8	26.7	1.9	17.7	•	0.6
62 63	ACTW46 DH63	-4.2 -13.4	56 72	-30.8 -8.5	-27.2 -4.4	-35.3 -12.6	8.1 8.3	-9.3 -19.3	-0.8 -6.1	-16.7 -28.8	15.9 22.7	3.8 2.4	13.7 16.8	•	0.1 1.2
64	ACTW28	-6.6	71	-13.3	-8.6	-18.4	9.8	-30.8	-19.2	-39.9	20.7	2.8	21.9	•	-0.2
65 66	JR16 MC167	1.3 -4.8	146 43	2.8 -6.8	6.6 -3.4	-0.5 -10.2	7.1 6.8	0.7 -28.6	10.7 -22.6	-7.3 -34.3	18.1 11.7	3.1 5.2	18.4 19.6		-1.4 -1.1
67	GJ25	-4.7	86	-1.3	2.2	-7.1	9.3	-12.7	-3.6	-19.5	15.9	3.5	34.1	•	1.7
68 69	MC166 ACTW26	-0.8 -0.6	86 49	-6.5 -7.6	-1.8 -2.7	-10.9 -12	9.1 9.3	-15 -18.7	-4.5 -8.6	-22.3 -25.6	17.8 17	2.9	16.4 17	•	-0.8 -0.4
70	AC121	10.9	80	8.4	12	4.6	7.3	3.4	11.1	-3.4	14.6	3.8	14		-0.3
71 72	MC149 AC96	10.2 19.7	31 132	17.6 11.2	21.2 14.5	13.1 6.6	8.1 7.9	17.2 4.1	26 13.3	9.6 -3.1	16.4 16.5	3 2.9	24.7 19.6	•	-0.2 -3.3
73	JR45	11.0	157	13.7	18.6	9	9.6	43	51	30.2	20.8	2.2	28.4		-0.2
74 75	AC115 MC160	-3.6	61	3.8	8.8	0.8	8	22.3	28.5	11.4	17.1	2.7	15.2		0.8
75 76	MC160 ABC32	-1.3 31.5	40 190	-7.4 0.4	-3.9 6.9	-11.3 -5.2	7.3 12.1	-5.4 -16.2	2.9 -9.2	-12.2 -29	15.1 19.8	3.2 2.1	37.4 18.3	•	-0.3 7.3
77	ACTW22	-7.2	22	-44.3	-40.7	-47.6	6.9	-43.5	-36.5	-52.3	15.8	3	26.9	•	0.2
78 79	JR32 AC126	-20.9 2.6	165 65	-20.1 4.4	-15.6 8.8	-24.6 1	9 7.8	0.9 16.2	10.1 24.1	-6.9 5.2	17 18.9	2.5 2.2	14.4 23.1	•	1.2 -0.3
80	MC145	0.6	82	4.8	9.1	0.8	8.4	-5.3	3.2	-15.6	18.8	2.1	24.4	•	0.5
81 82	ABC41 AC53	7.4 -13.1	166 200	-23.1 -26.6	-19.3 -23.3	-27 -31	7.7 7.8	-29 -17.9	-19.5 -12	-36.5 -25	17 13	2.3 3.1	15.7 16.2	•	0.9
83	DH52	-0.2	16	-20.0	1.3	-31 -7.1	8.3	10.2	17.3	4.4	12.9	3.1	15.1	·	-0.1
84	DH32	3.3	4	8.3	12.3	5.2	7.1	-11.7	-4.6	-16.5	11.9	2.8	38	•	0
85 86	JR43 ABC47	18.5 1.2	136 106	46.1 -22	49.4 -18.9	42.5 -25.7	6.8 6.8	20.1 -19.8	28.2 -11.3	14.3 -26.7	13.9 15.4	2.7	14.7 37.1	•	-0.4 1.1
87	MC173	0.5	24	-1.2	2.4	-4.8	7.2	16.2	21.1	10.7	10.4	2.8	17	•	0.2
88 89	ABC39 MC89	36.6 25.6	222 39	1.3 -9	6.4 -5.8	-4.4 -12.1	10.8 6.3	23.3 -30.9	30.1 -23.9	15.6 -39.5	14.5 15.5	2.4 1.8	16.1 52.1	•	0.3 -0.7
90	ABC33	3.5	64	-0.4	3.6	-3.8	7.4	22.3	30.3	15.1	15.3	1.8	24.7		-1
91 92	ABC35 AC111	-16.4 30.3	86 73	-0.3 23.7	2.9	-4.7 10.8	7.6 7.1	-7.3 38.2	-3 44.2	-13 28.7	10	2.6	17.1		-1 1 7
93	DH48	30.3 -23.6	73 24	23.7 -38	26.9 -34	19.8 -41.9	7.1 8	-36.7	44.2 -32	-43.1	15.4 11.1	1.6 2.4	17.3 11.8		1.7 0.6
94	GJ18	21.9	61	12.2	18.7	7.3	11.4	33.2	39.8	24.7	15.1	1.8	30.1	•	0.3
95 96	ABC45 AC127	-2.4 1.0	104 38	-37.1 -5.1	-32.8 -0.6	-41.5 -10.1	8.6 9.5	-23.6 -8.8	-17.9 -0.1	-29.3 -14.6	11.4 14.5	2.2 1.7	13.1 20.3		-0.6 -0.5
97	MC158	0.3	60	-3.5	0.7	-6.3	7	-6.2	1.7	-11.9	13.6	1.5	35.8	•	0.5
98 99	ACTW17 DH58	-6.0 -2.5	32 85	-26.1 14.7	-22.7 18.4	-29.8 11	7.1 7.5	-47 26	-42.6 31.2	-51.4 20.4	8.9 10.8	1.8 1.7	18.7 23	•	0.1
-	200	2.0			20.7				V		20.0				0.0

9 Manager pair correlations

N	Manager pa	ir correlation	ı statistics, 2 v	veeks, 10-m	nin bars
	manager	mean_cor	median_cor	max_cor	min_cor
1	ABC	0.28	-1	48	-34
2	AC	-1.18	-1.5	43	-43
3	ACTW	2.62	2	47	-33
4	DH	2.04	3.5	17	-21
5	GJ	4.77	3	84	-40
6	JR	0.17	-1	49	-42
7	MC	-0.06	1	31	-28

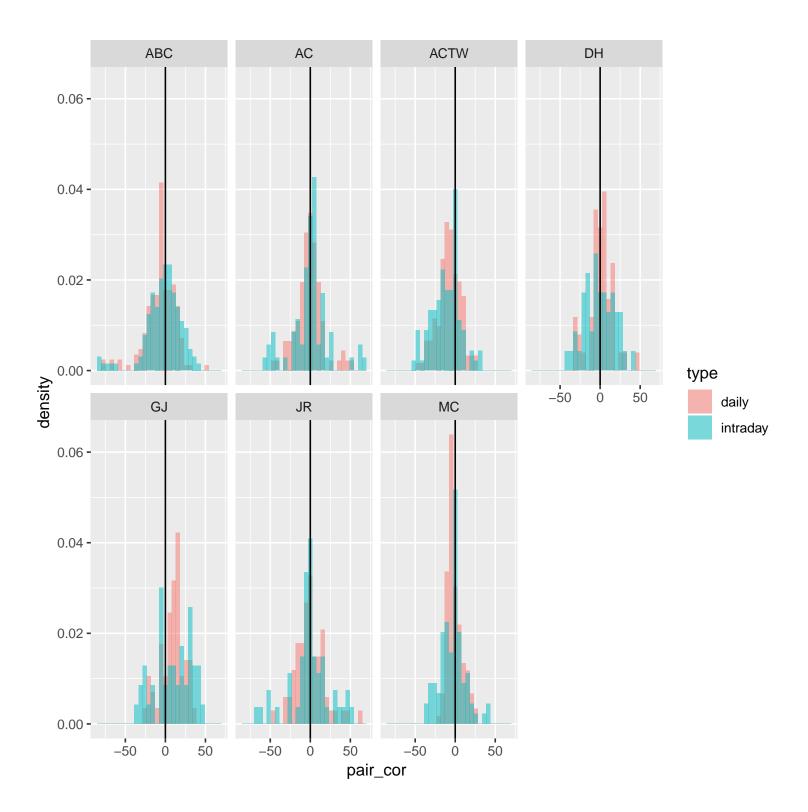
	Manage	r pair correla	ation statistics	s, 2 year, da	aily
	manager	mean_cor	median_cor	max_cor	min_cor
1	ABC	0.06	1	32	-17
2	AC	-0.35	-1	21	-31
3	ACTW	2.74	2	36	-20
4	DH	0.63	1	12	-12
5	GJ	5.26	2	59	-11
6	JR	0.28	1	20	-22
7	MC	0.74	1	22	-15



10 Factor correlations

N	lanager pai	r correlation	to factors, 2 v	weeks, 10-r	nin bars
	manager	mean_cor	median_cor	max_cor	min_cor
1	ABC	-2.57	1	39	-85
2	AC	-0.35	1.5	65	-57
3	ACTW	-11.53	-11	30	-52
4	DH	-0.76	-1	39	-39
5	GJ	9.22	8	44	-35
6	JR	-1.08	-0.5	51	-69
7	MC	-3.16	-1	41	-36

	Manager	pair correla	tion to factors	s, 2 year, d	aily
	manager	mean_cor	median_cor	max_cor	min_cor
1	ABC	-5.96	-5	53	-79
2	AC	-1.38	-2	53	-44
3	ACTW	-7.68	-7	26	-45
4	DH	0.96	2	46	-30
5	GJ	9	12	36	-28
6	JR	-0.38	-2	60	-49
7	MC	-0.72	-3	26	-21



High correlation pairs

		intrac	dav				dai	V	
	pair_cor	manager	pair1	pair2		pair_cor	manager	pair1	pair2
1	84	GJ	GJ26	GJ4	1	59	GJ	GJ26	GJ4
2	49	JR	JR37	JR46	2	36	ACTW	ACTW21	ACTW5
3	48	ABC	ABC23	ABC7	3	32	ABC	ABC45	ABC7
4	47	ACTW	ACTW21	ACTW5	4	32	GJ	GJ27	GJ28
5	47	GJ	GJ27	GJ28	5	-31	AC	AC124	AC128
6	43	AC	AC111	AC128	6	26	ACTW	ACTW30	ACTW46
7	-43	AC	AC125	AC128	7	25	ABC	ABC47	ABC7
8	-42	JR	JR45	JR46	8	25	GJ	GJ25	GJ28
9	41	ABC	ABC23	ABC41	9	24	GJ	GJ25	GJ27
10	41	ABC	ABC23	ABC44	10		JR	JR43	JR46
11	41	ACTW	ACTW40	ACTW5	11	22	MC	MC149	MC162
12	-40	GJ	GJ18	GJ27	12		AC	AC115	AC122
13	-37	AC	AC124	AC128	13		ACTW	ACTW2	ACTW37
14	35	ACTW	ACTW34	ACTW35	14		JR	JR37	JR46
15	-34	ABC	ABC23	ABC38	15	18	ABC	ABC41	ABC7
16	34	ABC	ABC41	ABC7	16		AC	AC111	AC128
17	34	JR	JR10	JR46	17	18	AC	AC125	AC57
18	-33	ACTW	ACTW30	ACTW34	18		GJ	GJ22	GJ26
19	32	ACTW	ACTW17	ACTW35	19		JR	JR18	JR43
20	32	GJ	GJ25	GJ27	20		MC	MC162	MC166
21	32	GJ	GJ25	GJ28	21		ABC	ABC44	ABC47
22	32	GJ	GJ22	GJ4	22		ABC	ABC45	ABC47
23	-31	ABC	ABC38	ABC7	23		ABC	ABC43	ABC7
24	31	ABC	ABC47	ABC7	24		AC	AC125	AC128
25	-31	AC	AC111	AC124	25		GJ	GJ22	GJ4
26	-31	ACTW	ACTW2	ACTW35	26		MC	MC122	MC129
27	31	GJ	GJ22	GJ26	27		AC	AC124	AC53
28	31	MC	MC122	MC167	28		AC	AC128	AC96
29	30	ACTW	ACTW21	ACTW22	29	16	ACTW	ACTW17	ACTW35
30	-30	JR	JR37	JR45	30	-15	ABC	ABC43	ABC45
31	29	ACTW	ACTW17	ACTW28	31	-15	ABC	ABC29	ABC47
32	29	ACTW	ACTW28	ACTW35	32	15	ABC	ABC41	ABC47
33	-29	ACTW	ACTW35	ACTW37	33	-15	AC	AC122	AC125
34	29	GJ	GJ22	GJ7	34	-15	MC	MC162	MC172
35	-28	ACTW	ACTW17	ACTW37	35	14	ABC	ABC40	ABC41
36	28	ACTW	ACTW22	ACTW5	36	-14	ABC	ABC29	ABC7
37	28	MC	MC122	MC129	37	14	ABC	ABC7	ABC8
38	28	MC	MC158	MC162	38	-14	AC	AC111	AC124
39	-28	MC	MC122	MC172	39	-14	AC	AC111	AC125
40	-27	ABC	ABC29	ABC7	40	-14	AC	AC128	AC53
41	-27	ABC	ABC7	ABC9	41	14	ACTW	ACTW17	ACTW22
42	27	ACTW	ACTW22	ACTW40	42		ACTW	ACTW17	ACTW46
43	-27	GJ	GJ18	GJ28	43	14	ACTW	ACTW26	ACTW5
44	-27	GJ	GJ28	GJ4	44		ACTW	ACTW37	ACTW6
45	27	JR	JR10	JR37	45		GJ	GJ13	GJ7
46	26	ABC	ABC38	ABC9	46		JR	JR45	JR46
47	-25	ABC	ABC29	ABC44	47		ABC	ABC29	ABC45
48	-25	ABC	ABC33	ABC7	48		ABC	ABC46	ABC7
49	25	ABC	ABC45	ABC7	49		AC	AC127	AC57
50	-25	AC	AC111	AC122	50	13	ACTW	ACTW30	ACTW35

12 High factor exposure pairs

		intr	aday				Ь	aily	
	pair_cor	manager	factor	pair		pair_cor	manager	factor	pair
1	-85	ABC	CAC	ABC7	1	-79	ABC	JPEUBATL	ABC7
2	-83	ABC	JPEUBATL	ABC7	2	-75	ABC	CAC	ABC7
3	-76	ABC	MCX	ABC7	3	-66	ABC	DAX	ABC7
4	-73	ABC	JPEUBATW	ABC7	4	-65	ABC	JPEUBATW	ABC7
5	-69	ABC	UKX	ABC7	5	60	JR	DAX	JR43
6	-69	JR	UKX	JR46	6	-57	ABC	MCX	ABC7
7	65	AC	UKX	AC128	7	-56	ABC	UKX	ABC7
8	64	AC	CAC	AC128	8	53	ABC	V2X	ABC7
9	63	AC	MCX	AC128	9	53	AC	MCX	AC128
10	-63	JR	CAC	JR46	10	-49	JR	V2X	JR43
11	-60	ABC	DAX	ABC7	11	47	JR	CAC	JR43
12	-57	AC	CAC	AC125	12	-46	ABC	SMX	ABC7
13	-53	JR	MCX	JR46	13	46	DH	DAX	DH62
14	-52	ACTW	UKX	ACTW35	14	45	AC	CAC	AC128
15	51	AC	DAX	AC128	15	-45	ACTW	DAX	ACTW22
16	51	JR	DAX	JR43	16	-44	AC	CAC	AC125
17	-51	JR	DAX	JR46	17	42	AC	UKX	AC128
18	-50	AC	UKX	AC124	18	-42	ACTW	MCX	ACTW46
19	-50	AC	DAX	AC124	19	40	AC	DAX	AC128
20	-49	AC	CAC	AC124	20	40	JR	UKX	JR43
21	-49	AC	MCX	AC125	21	-39	AC	DAX	AC125
22	-49	ACTW	CAC	ACTW35	22	-38	ACTW	MCX	ACTW30
23	-48	ACTW	UKX	ACTW34	23	-37	ABC	CAC	ABC45
24	-46	ACTW	MCX	ACTW35	24	-37	ACTW	SMX	ACTW30
25	46	JR	CAC	JR45	25	-36	ABC	DAX	ABC45
26	-45	AC	MCX	AC124	26	36	AC	SMX	AC128
27	45	JR	UKX	JR45	27	-36	ACTW	UKX	ACTW22
28	-44	ACTW	DAX	ACTW22	28	36	GJ	DAX	GJ4
29	44	GJ	CAC	GJ4	29	-35	ABC	SGBVPMEU	ABC44
30	43	GJ	MCX	GJ4	30	-34	ACTW	MCX	ACTW22
31	43	GJ	CAC	GJ7	31	-33	AC	V2X	AC128
32	-41	AC	UKX	AC125	32	-33	ACTW	SMX	ACTW46
33	41	MC	CAC	MC172	33	33	GJ	DAX	GJ26
34	-40	JR	UKX	JR37	34	-33	JR	UKX	JR46
35	39	ABC	CAC	ABC9	35	-32	ABC	SGBVPMEU	ABC7
36	-39	ACTW	DAX	ACTW35	36	32	DH	CAC	DH62
37	39	DH	DAX	DH62	37	-31	ABC	MSEEMOMO	ABC7
38	-39	DH	CAC	DH66	38	-31	AC	UKX	AC125
39	39	GJ	MCX	GJ7	39	31	GJ	DAX	GJ28
40	39	JR MC	MCX	JR45	40	31	GJ	CAC	GJ4
41 42	39 -38	MC ACT\\\	UKX	MC172 ACTW22	41	-30	ABC	MCX V2X	ABC45
		ACTW	UKX		42	30	ABC		ABC45
43 44	- 37 37	ACTW GJ	MCX UKX	ACTW21 GJ4	43 44	- <mark>30</mark> 30	DH JR	MCX MCX	DH48 JR43
44	37	GJ	UKX	GJ4 GJ7	45	-30	JR	CAC	JR43 JR46
46	37	MC	MCX	MC172	46	-30 -29	ABC	SGIXTFEQ	ABC7
47	-36	MC	MCX	MC172 MC167	47	-29 -29	AC	MCX	AC124
48	35	ABC	UKX	ABC9	48	-29 -29	ACTW	DAX	ACTW30
49	-35	ACTW	MCX	ACTW46	49	-29 -29	ACTW	UKX	ACTW30
50	-35 -35	DH	UKX	DH66	50	-29 -29	ACTW	MCX	ACTW34 ACTW35
50	-55	דוט	OUV	טווט	30	-29	ACIVV	IVICA	AC 1 VV33

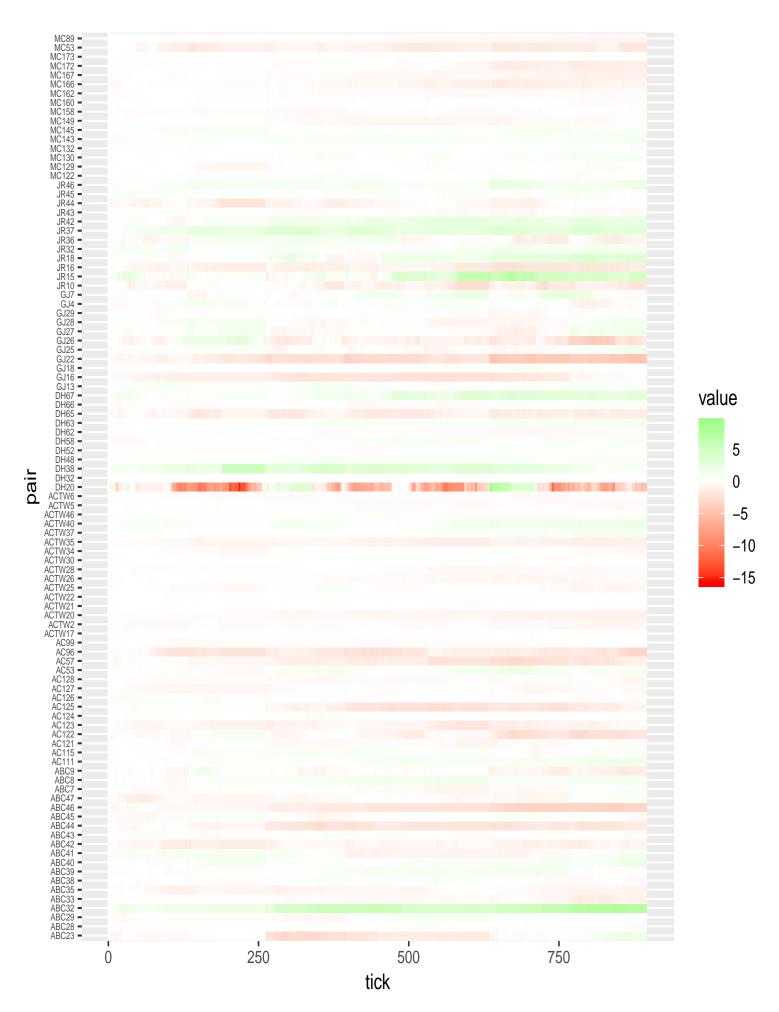
High sector exposure pairs

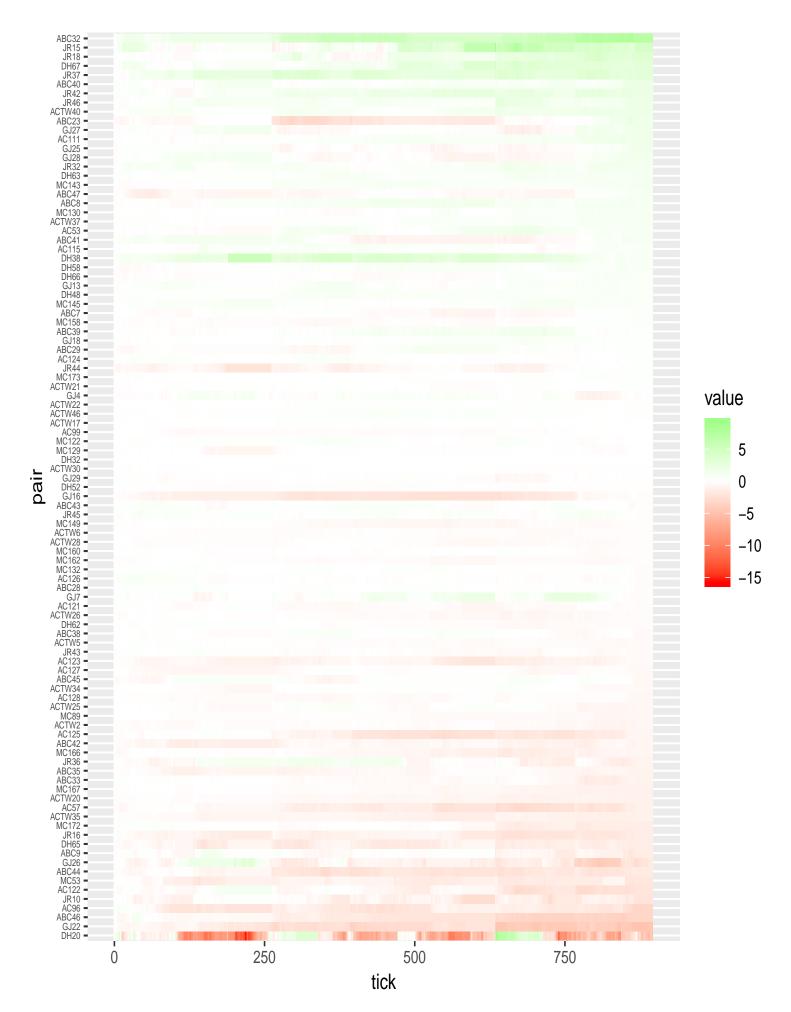
		intrada	ıv					daily		
	pair_cor	manager	sector	pair			pair_cor	manager	sector	pair
1	-80	ABC	SXXE	ABC7	1		-71	ABC	SXXE	ABC7
2	-78	ABC	SXXP	ABC7	2		-69	ABC	SXXP	ABC7
3	-78	ABC	SX8P	ABC7	3		-67	ABC	SX4P	ABC7
4	-78	ABC	SXDE	ABC7	4		-66	ABC	SX4E	ABC7
5	-77	ABC	SX8E	ABC7	5		-64	ABC	SX8P	ABC7
6	-70	ABC	SX4P	ABC7	6		-63	ABC	SX8E	ABC7
7	-68	ABC	SX4E	ABC7	7		-56	ABC	SXAE	ABC7
8	-68	JR	SX7P	JR46	8		-56	ABC	SXAP	ABC7
9	-65	ABC	SX7P	ABC7	9		-56	ABC	SXDE	ABC7
10	65	AC	SXXP	AC128		0	-54	DH	SX3E	DH48
11	-64	ABC	SXDP	ABC7	1		52	JR	SXXE	JR43
12	64	AC	SXXE	AC128		2	51	JR	SX4E	JR43
13	-63	JR	SXXE	JR46	1	3	50	JR	SX4P	JR43
14	-62	JR	SXXP	JR46		4	-48	ABC	SXDP	ABC7
15	61	AC	SX4P	AC128	1	5	46	ABC	SXAE	ABC46
16	60	AC	SX4E	AC128		6	46	ABC	SXAP	ABC46
17	-59	JR	SX7E	JR46	1	7	-46	ABC	SX3E	ABC7
18	-58	ABC	SX3E	ABC7		8	46	AC	SXXP	AC128
19	-57	ABC	SX7E	ABC7	1	9	46	JR	SXXP	JR43
20	56	ABC	SXAE	ABC46	2	0	-45	ABC	SX3P	ABC7
21	56	ABC	SXAP	ABC46	2	1	45	AC	SXXE	AC128
22	-54	ABC	SXAE	ABC7	2	2	44	AC	SX4P	AC128
23	-54	ABC	SXAP	ABC7	2	3	-44	ACTW	SXXE	ACTW22
24	-54	ACTW	SX7P	ACTW35	2	4	-44	ACTW	SXXP	ACTW22
25	-53	AC	SXXP	AC124	2	5	-43	ABC	SX7P	ABC7
26	-51	AC	SXXE	AC124	2	6	-42	AC	SXXE	AC125
27	-51	AC	SX4E	AC124	2	7	-42	AC	SX4E	AC125
28	-51	AC	SXXE	AC125		8	42	AC	SX4E	AC128
29	51	AC	SX3E	AC128		9	-40	AC	SX4P	AC125
30	50	DH	SX3E	DH65		0	-38	ABC	SXXE	ABC45
31	-50	JR	SX4E	JR46	3		-38	ABC	SX6E	ABC7
32	-50	JR	SX4P	JR46		2	-38	ABC	SX7E	ABC7
33	49	AC	SX3P	AC128	3		-38	AC	SXXP	AC125
34	49	AC	SX7E	AC128		4	-38	DH	SXXP	DH48
35	-49	ACTW	SX6P	ACTW34	3		-38	JR	SX7P	JR46
36	-49	ACTW	SXXE	ACTW35		6	-37	ABC	SXXP	ABC45
37	-49	ACTW	SXXP	ACTW35		7	-37	ABC	SX4P	ABC45
38	-49	ACTW	SX7E	ACTW35		8	37	GJ	SX4P	GJ4
39	-49	JR	SX8E	JR46		9	37	JR	SX6E	JR43
40	-48	JR	SX3E	JR46		0	-36	ABC	SX4E	ABC45
41	-47	AC	SXXP	AC125		1	-36	DH	SXXE	DH48
42	-46	ABC	SX3P	ABC7		2	36	DH	SXXE	DH62
43	-45	ACTW	SX6E	ACTW34		3	36	GJ	SX4E	GJ4
44	-44	ACTW	SXXP	ACTW22		4	35	DH	SX3E	DH65
45	44	GJ A GTVA (SXXE	GJ4	4		35	GJ	SXXE	GJ4
46	-43	ACTW	SXXE	ACTW22		6	35	GJ	SXXP	GJ4
47	-43	ACTW	SX4E	ACTW35	4		-35	JR	SXXE	JR18
48	-43	ACTW	SX4P	ACTW35		8	34	DH	SX4E	DH62
49	-43	ACTW	SX6P	ACTW35	4		-33	ABC	SX6P	ABC7
50	43	GJ	SXXP	GJ4	5	0	33	DH	SX4P	DH62

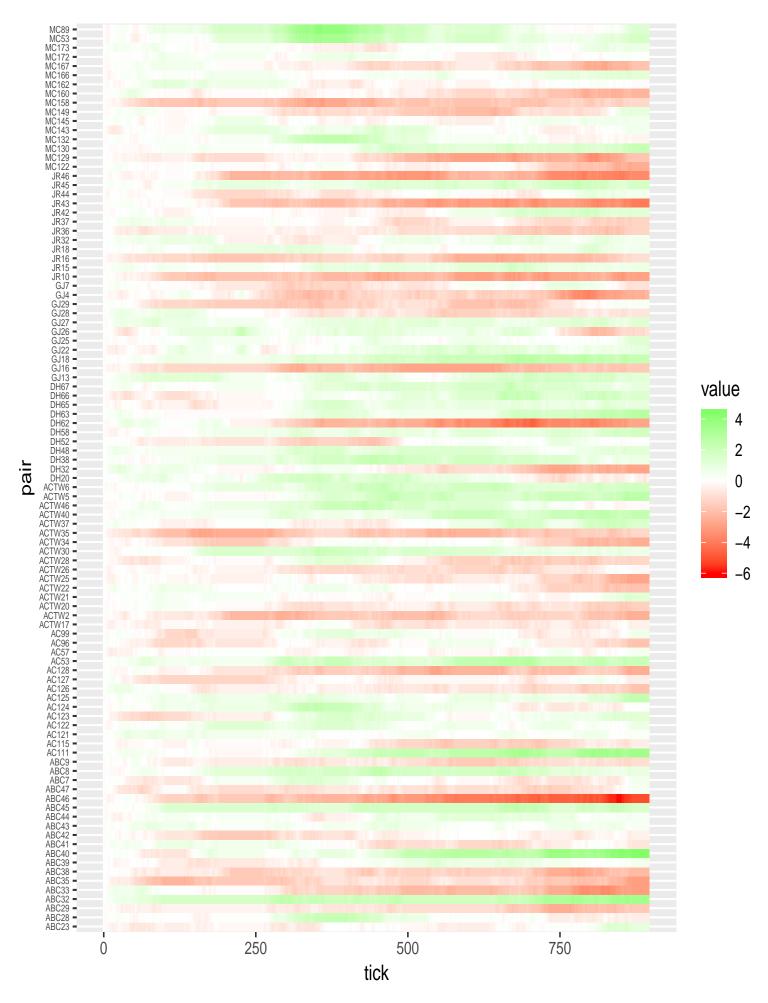
14 Pair long-short correlation

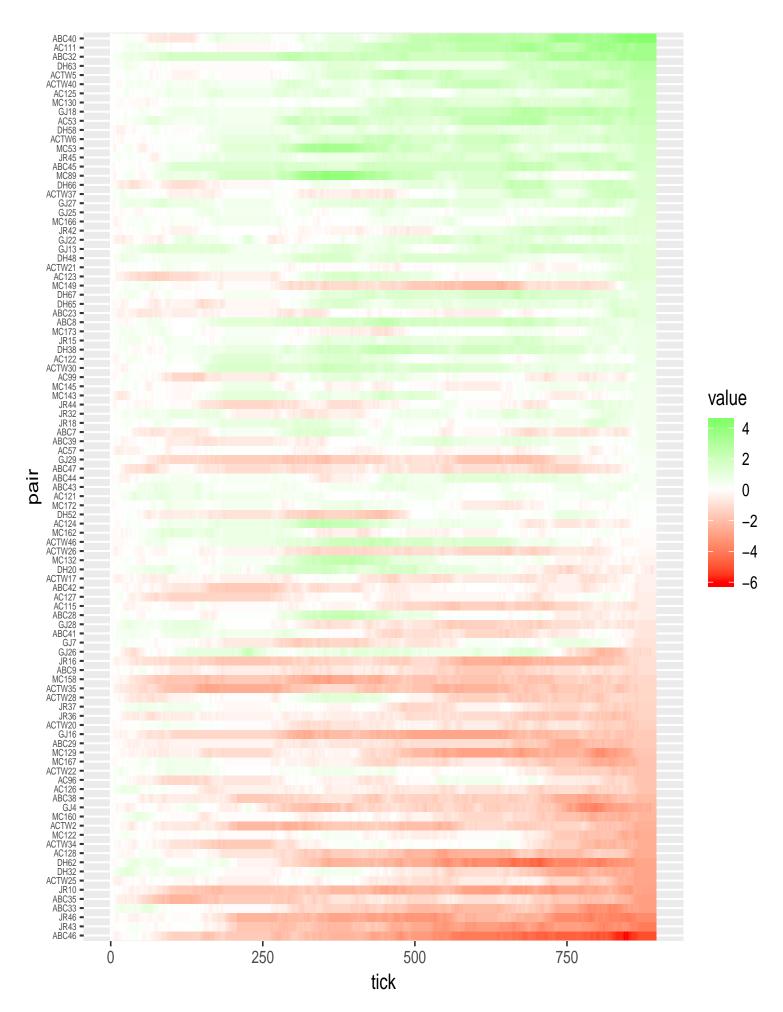
		2week	2week	2week		leg correlatio		-		chang
	pair	pair perf	long perf	short perf	gross	long	short	daily	intraday	in rank
	ABC7	0.5	0	0.5	23.6	MC FP	MC FP	0	0	0
	AC128 AC99	-0.7	-0.7 0.1	0	21.1	MGGT LN IBST LN	MGGT LN	0 -44	0	0
	DH48	0.1	0.1	0.6	23.6	CARLB DC	RUKM150 CARLB DC	-44	0	0
	DH20	-5.2	2.1	-7.3	756	GRFS US	GRF SM	-59	-1	32
	MC122	0.1	0.1	-0.1	66.9	SIGC LN	F3BANK	-1	-1	0
	MC89 DH32	-0.7	-0.7	0	38.6	TMO LN	MCX	5	-1	1
	ABC28	-0.3	-0.3	0	4.3 19.1	TPZ SM GLO LN	IBEX MCX	-7 -32	-2 -7	1
0	MC132	-0.3	-0.3	0	17.9	GLO LN	MCX	-32	-7	9
1	GJ4	0.2	-0.4	0.6	61.1	ASML NA	NDX	-44	-8	18
2	MC53 GJ26	-2 -1.5	-2 -3	1.5	56.3 159	ELTA LN SAP GY	MCX NDX	-14 -35	-9 -13	-1 8
4	ABC44	-1.5	-3 -1.6	-0.1	93.1	BT/A LN	MCX	-27	-13	0
5	JR15	4.4	3.2	1.2	235.3	LBK SM	SAN SM	-28	-16	0
6	JR10	-2.2	-2.1	-0.1	149.8	BIRG ID	LLOY LN	-39	-17	9
7 B	DH38 DH67	0.8	0.5	0.3 1.6	186.3 102.4	MRL SM	ENG SM CABK SM	-43 -31	-20 -20	11
9	ABC32	3.1 7.3	1.5 6.6	0.7	189.9	LBK SM REC IM	MDAX	-36	-20 -22	4
0	MC162	-0.3	-0.4	0.1	35.2	ULVR LN	MCX	-26	-23	-6
1	ACTW20	-1.1	-0.4	-0.7	36.6	MRW LN	GNC LN	-29	-24	-4
2	MC130	1	0.8	0.2	13.6	PRSM LN	SMT LN	-27	-24	-6
4	JR37 JR44	0.3	1.9	1.2 -0.6	149.2 77.8	DANSKE DC HSTG LN	HSBA LN ADM LN	-23 -28	-27 -27	-9 -6
5	ACTW21	0.3	-0.2	0.4	30.2	ULVR LN	BNZL LN	-30	-31	-5
6	JR18	3.5	2.6	0.8	168	BG AV	SX5E	-33	-31	-2
7	GJ7	-0.3	0.1	-0.4	128.9	ERF FP	SGSN SW	-36	-34	-1
3	ABC9 GJ25	-1.5 1.7	-0.2 -0.5	-1.3 2.2	134.2 86.5	BBY LN DAX	MCX ECM LN	-42 -42	-36 -39	3
)	ABC40	1.7 2.1	0.5	1.9	75.4	RYA LN	IAG LN	-42 -42	-39 -40	1
l	ACTW34	-0.6	-0.7	0	46.5	SGE LN	UKX	-47	-40	6
2	MC145	0.5	0.7	-0.2	82.2	SSPG LN	CPG LN	-29	-40	-10
3	MC149	-0.2	-0.2	0	31.4	SGRO LN	MCX MTY CV	-46 20	-41	4
4 5	ABC45 DH66	-0.6 0.6	-1 0.8	0.4 -0.2	103.8 43.9	SHL GY NESTE FH	MTX GY FP FP	-29 -32	-43 -43	-12 -9
6	ABC23	1.8	1.2	0.6	216	RWE GY	SX5E	-54	-45 -46	8
7	GJ27	1.8	-1	2.8	153.5	DAX	ITRK LN	-41	-46	-3
В	MC167	-1.1	-0.5	-0.6	43	MRW LN	F3RETG	-42	-49	-3
9	GJ18 MC160	0.3	-0.5	0.3	60.7 39.7	EL FP AVV LN	FTSEMIB F3ENGN	-30 -37	-51 -51	-14 -8
1	ABC41	0.9	0.4	0.2	165.6	DB1 GY	WDI GY	-41	-52	-6
2	ACTW26	-0.4	-0.1	-0.3	48.6	ABF LN	F3RETG	-44	-52	-3
3	JR46	2	1.3	0.7	200.6	SREN SW	SXIP	-71	-52	16
4	AC126	-0.3	-1.1	0.8	65	JMAT LN	UMI BB	-33	-53	-13
5	ACTW5 MC166	-0.4 -0.8	-0.6 -0.1	0.2 -0.7	50.4 85.8	DGE LN ABF LN	CPG LN F3RETG	-47 -45	-53 -53	-1 -3
7	AC124	0.3	-0.1	0.8	66.7	DGE LN	BNZL LN	-47	-55 -54	-2
В	ACTW22	0.2	-0.1	0.3	22	SXS LN	SXAP	-45	-54	-4
9	GJ22	-4.7	-7.2	2.5	130.4	CAP FP	TEMN SW	-57	-54	4
0 1	AC111	1.7	1	0.6	72.7 173.5	BA/ LN	COB LN	-31	-55	-17
2	AC125 GJ28	-0.7 1.5	-1.7 -0.7	2.1	92.2	SX86E DAX	SX5E DSY FP	-51 -47	-55 -55	-1 -3
3	MC143	1.1	1.3	-0.2	23.3	PLUS LN	F3OTHR	-14	-55	-24
4	GJ16	-0.2	-0.7	0.6	92.6	TITR IM	FTSEMIB	-53	-56	0
5	JR36	-0.9	0.2	-1.1	191.7	JUP LN	SDR LN	-65	-56	9
6 7	JR45 DH63	-0.2 1.2	0.2 0.6	-0.4 0.6	156.8 72.2	CS FP ANIM IM	G IM FTSEMIB	-53 -57	-56 -57	0
В	DH62	-0.4	-0.5	0.0	26.9	DAI GY	SXNP	-67	-58	9
9	MC173	0.2	0.3	0	24.3	TW/ LN	MCX	-52	-58	-3
0	AC96	-3.3	-1.4	-1.9	132.3	FERG LN	CRH LN	-52	-59	-4
2	ABC47 AC127	1.1 -0.5	0.4 -0.6	0.7	106.2 38.2	CA FP METSO FH	CAC FLS DC	-26 -47	-60 -60	-27 -8
3	ACTW40	-0.5 1.9	-0.6 1.1	0.8	62.2	IMB LN	BATS LN	-47 -67	-60 -61	-8
1	ACTW2	-0.7	-0.1	-0.6	67.7	BBY LN	MCX	-60	-62	-1
5	ABC8	1	1.2	-0.2	164.5	RSA LN	MCX	-45	-63	-13
5 7	AC115	0.8	0.1	0.8	61.2	WEIR LN	IMI LN	-60 42	-63	-2
7 B	ABC33 AC122	-1 -2.2	-1.1 -2.3	0.1	64.1 175	JMAT LN RIO LN	SKFB SS UKX	-42 -47	-64 -64	-17 -12
9	JR16	-1.4	-1.6	0.2	145.7	MAP SM	SXIE	-66	-65	1
0	MC158	0.5	0.3	0.1	60.3	CNA LN	SSE LN	-50	-65	-12
1	GJ29 MC120	-0.1	-0.8 0.2	0.7	121.1	CAC	SW FP	-38 -50	-66 -66	-22
2	MC129 ACTW46	0.1	0.2	-0.2 -0.1	55.3 56.2	LSE LN F3INSU	STJ LN MCX	-50 -57	-66 -67	-13 -9
4	DH65	-1.4	-2	0.6	241.5	BN FP	NESN SW	-71	-67	1
5	ABC42	-0.8	-2.2	1.3	126	AALB NA	TWEKA NA	-62	-70	-6
6	JR32	1.2	1.2	0	164.7	ABN NA	SEBA SS	-57	-70	-10
7 B	AC57 ACTW37	-1.1 0.9	-2.2 1	1.1 -0.1	210.7 65.8	LAND LN BKG LN	BLND LN MCX	-63 -59	-72 -72	-6 -9
9	ABC39	0.9	-1.9	2.2	221.8	RI FP	VIE FP	-59 -54	-72 -74	-13
0	AC123	-0.5	-1	0.5	109.2	NG/ LN	SSE LN	-54	-74	-13
1	ACTW30	-0.1	0	-0.1	28.1	UKX	F3FINS	-79	-74	1
2	JR42 ABC29	2.1	1.8	0.3 3.3	236.2 202.1	RSA LN	UKX	-46 -85	-74 -76	-19 4
1	ABC29 ABC43	0.3 -0.2	-3 -1.1	3.3	91.3	AIR FP	SAF FP	-85 -62	-76 -76	-9
5	ACTW35	-1.1	-1.3	0.2	75.4	SMIN LN	UKX	-62	-76	-9
õ	ABC46	-3.3	-4.7	1.4	156.8	VOW3 GY	DAX	-74	-78	-2
7	AC121	-0.3	1	-1.3	79.9	TW/ LN	BDEV LN	-83	-78	1
B 9	DH52 MC172	-0.1 -1.4	-0.2 -1.5	0.1	15.6	SAB SM	SX7E	-72 -60	-78 -70	-3 -12
9	MC172 ABC38	-1.4 -0.4	-1.5 -1	0.1	86 90.2	RIO LN RR/ LN	UKX SXNP	-60 -51	-79 -80	-20
, L	GJ13	0.6	0.2	0.6	154.7	VIV FP	SXMP	-64	-80	-10
2	ABC35	-1	-1.7	0.7	86.2	PRU LN	AV/ LN	-74	-81	-5
3	DH58	0.8	1.2	-0.4	84.9	TEN IM	ENI IM	-58	-81	-16
1	JR43	-0.4	-0.6	0.2	136.3	ALV GY	SXIP BD/ LNI	-87	-83	0
5	AC53 ACTW17	0.9	3.6 0	-2.7 0.1	199.7 31.6	RDSA LN REL LN	BP/ LN F3MEDA	-85 -63	-88 -88	-2 -14
7	ACTW17 ACTW25	-0.7	1.3	-1.9	155.2	RDSA LN	BP/ LN	-03 -84	-88	-14
3	ACTW28	-0.2	-0.6	0.3	71.4	NG/ LN	F3UTLOS	-82	-89	-6
9	ACTW6	-0.2	-1.3	1.1	91.1	LAND LN	F3REITS	-92	-90	-2

			ordered	daily na	ir loa	correlation,	low to high			
	:_	2week pair	2week long	2week short			-	dati.		change in
	pair	perf	perf	perf	gross	long	short	daily	intraday	rank
1 2	ABC7 AC128	0.5 -0.7	0 -0.7	0.5	23.6 21.1	MC FP MGGT LN	MC FP MGGT LN	0	0	0
3	DH48	0.6	0	0.6	23.6	CARLB DC	CARLB DC	0	0	0
4 5	MC122 MC89	0.1 -0.7	0.1 -0.7	-0.1 0	66.9 38.6	SIGC LN TMO LN	F3BANK MCX	-1 5	-1 -1	-1
6	DH32	0.7	0	0	4.3	TPZ SM	IBEX	-7	-2	-1
7	MC53	-2	-2 1.3	0	56.3	ELTA LN	MCX	-14	-9 -55	1
9	MC143 JR37	1.1	1.3	-0.2 1.2	23.3 149.2	PLUS LN DANSKE DC	F3OTHR HSBA LN	-14 -23	-55 -27	9
10	MC162	-0.3	-0.4	0.1	35.2	ULVR LN	MCX	-26	-23	6
11 12	ABC47 ABC44	1.1 -1.6	0.4 -1.6	0.7 -0.1	106.2 93.1	CA FP BT/A LN	CAC MCX	-26 -27	-60 -14	0
13	MC130	1	0.8	0.2	13.6	PRSM LN	SMT LN	-27	-24	6
14 15	JR15 JR44	4.4 0.3	3.2 0.9	1.2 -0.6	235.3 77.8	LBK SM HSTG LN	SAN SM ADM LN	-28 -28	-16 -27	6
16	ACTW20	-1.1	-0.4	-0.7	36.6	MRW LN	GNC LN	-29	-24	4
17 18	MC145 ABC45	0.5 -0.6	0.7 -1	-0.2 0.4	82.2 103.8	SSPG LN SHL GY	CPG LN MTX GY	-29 -29	-40 -43	10 12
19	ACTW21	0.2	-0.2	0.4	30.2	ULVR LN	BNZL LN	-30	-43	5
20	GJ18 DH67	0.3	0	0.3	60.7 102.4	EL FP	FTSEMIB	-30 -31	-51 -20	14
21	AC111	3.1 1.7	1.5 1	1.6 0.6	72.7	LBK SM BA/ LN	CABK SM COB LN	-31	-20 -55	-1 17
23	ABC28	-0.3	-0.3	0	19.1	GLO LN	MCX	-32	-7	-9
24 25	MC132 DH66	-0.3 0.6	-0.3 0.8	-0.2	17.9 43.9	GLO LN NESTE FH	MCX FP FP	-32 -32	-7 -43	-9 9
26	JR18	3.5	2.6	0.8	168	BG AV	SX5E	-33	-31	2
27 28	AC126 GJ26	-0.3 -1.5	-1.1 -3	0.8 1.5	65 159	JMAT LN SAP GY	UMI BB NDX	-33 -35	-53 -13	13 -8
29	ABC32	7.3	6.6	0.7	189.9	REC IM	MDAX	-36	-22	-4
30	GJ7	-0.3	0.1	-0.4	128.9	ERF FP	SGSN SW	-36	-34	1
31 32	MC160 GJ29	-0.3 -0.1	-0.5 -0.8	0.2	39.7 121.1	AVV LN CAC	F3ENGN SW FP	-37 -38	-51 -66	22
33	JR10	-2.2	-2.1	-0.1	149.8	BIRG ID	LLOY LN	-39	-17	-9
34 35	GJ27 ABC41	1.8 0.9	-1 0.4	2.8 0.5	153.5 165.6	DAX DB1 GY	ITRK LN WDI GY	-41 -41	-46 -52	3 6
36	ABC9	-1.5	-0.2	-1.3	134.2	BBY LN	MCX	-42	-36	-3
37 38	GJ25 ABC40	1.7 2.1	-0.5 0.3	2.2 1.9	86.5 75.4	DAX RYA LN	ECM LN IAG LN	-42 -42	-39 -40	-2 -1
39	MC167	-1.1	-0.5	-0.6	43	MRW LN	F3RETG	-42	-49	3
40 41	ABC33	-1	-1.1	0.3	64.1	JMAT LN	SKFB SS	-42	-64	17
41	DH38 AC99	0.8	0.5 0.1	0.3	186.3 29.9	MRL SM IBST LN	ENG SM RUKM150	-43 -44	-20 0	-11 -22
43	GJ4	0.2	-0.4	0.6	61.1	ASML NA	NDX	-44	-8	-18
44 45	ACTW26 MC166	-0.4 -0.8	-0.1 -0.1	-0.3 -0.7	48.6 85.8	ABF LN ABF LN	F3RETG F3RETG	-44 -45	-52 -53	3
46	ACTW22	0.2	-0.1	0.3	22	SXS LN	SXAP	-45	-54	4
47 48	ABC8 MC149	-0.2	1.2	-0.2 0	164.5 31.4	RSA LN SGRO LN	MCX MCX	-45 -46	-63 -41	13 -4
49	JR42	2.1	1.8	0.3	236.2	RSA LN	UKX	-46	-74	19
50 51	ACTW34 ACTW5	-0.6 -0.4	-0.7 -0.6	0.2	46.5 50.4	SGE LN DGE LN	UKX CPG LN	-47 -47	-40 -53	-6 1
52	AC124	0.3	-0.5	0.2	66.7	DGE LN	BNZL LN	-47	-53 -54	2
53	GJ28	1.5	-0.7	2.1	92.2	DAX	DSY FP	-47	-55	3
54 55	AC127 AC122	-0.5 -2.2	-0.6 -2.3	0.1	38.2 175	METSO FH RIO LN	FLS DC UKX	-47 -47	-60 -64	8
56	MC158	0.5	0.3	0.1	60.3	CNA LN	SSE LN	-50	-65	12
57 58	MC129 AC125	-0.7	0.2 -1.7	-0.2 1	55.3 173.5	LSE LN SX86E	STJ LN SX5E	-50 -51	-66 -55	13
59	ABC38	-0.4	-1	0.6	90.2	RR/ LN	SXNP	-51	-80	20
60 61	MC173 AC96	0.2 -3.3	0.3 -1.4	-1.9	24.3 132.3	TW/ LN FERG LN	MCX CRH LN	-52 -52	-58 -59	3
62	GJ16	-0.2	-0.7	0.6	92.6	TITR IM	FTSEMIB	-53	-56	0
63	JR45	-0.2	0.2	-0.4	156.8	CS FP	G IM	-53	-56	0
64 65	ABC23 ABC39	1.8 0.3	1.2 -1.9	0.6 2.2	216 221.8	RWE GY RI FP	SX5E VIE FP	-54 -54	-46 -74	-8 13
66	AC123	-0.5	-1	0.5	109.2	NG/ LN	SSE LN	-54	-74	13
67 68	GJ22 DH63	-4.7 1.2	-7.2 0.6	2.5 0.6	130.4 72.2	CAP FP ANIM IM	TEMN SW FTSEMIB	-57 -57	-54 -57	-4 -1
69	ACTW46	0.1	0.2	-0.1	56.2	F3INSU	MCX	-57	-67	9
70 71	JR32 DH58	1.2 0.8	1.2 1.2	-0.4	164.7 84.9	ABN NA TEN IM	SEBA SS ENI IM	-57 -58	-70 -81	10 16
72	DH20	-5.2	2.1	-7.3	756	GRFS US	GRF SM	-59	-1	-32
73 74	ACTW37 ACTW2	0.9 -0.7	-0.1	-0.1 -0.6	65.8 67.7	BKG LN BBY LN	MCX MCX	-59 -60	-72 -62	9
75	AC11V2	0.8	0.1	0.8	61.2	WEIR LN	IMI LN	-60	-63	2
76	MC172	-1.4	-1.5	0.1	86	RIO LN	UKX	-60	-79	12
77 78	ABC42 ABC43	-0.8 -0.2	-2.2 -1.1	1.3	126 91.3	AALB NA AIR FP	TWEKA NA SAF FP	-62 -62	-70 -76	6
79	ACTW35	-1.1	-1.3	0.2	75.4	SMIN LN	UKX	-62	-76	9
80 81	AC57 ACTW17	-1.1 0.1	-2.2 0	1.1 0.1	210.7 31.6	LAND LN REL LN	BLND LN F3MEDA	-63 -63	-72 -88	6
82	GJ13	0.6	0.2	0.4	154.7	VIV FP	SXMP	-64	-80	10
83 84	JR36 JR16	-0.9 -1.4	0.2 -1.6	-1.1 0.2	191.7 145.7	JUP LN MAP SM	SDR LN SXIE	-65 -66	-56 -65	-9 -1
85	DH62	-0.4	-0.5	0.2	26.9	DAI GY	SXNP	-67	-05 -58	-9
86	ACTW40	1.9	1.1	0.8	62.2	IMB LN	BATS LN	-67	-61	-6
87 88	JR46 DH65	2 -1.4	1.3 -2	0.7	200.6 241.5	SREN SW BN FP	SXIP NESN SW	-71 -71	-52 -67	-16 -1
89	DH52	-0.1	-0.2	0.1	15.6	SAB SM	SX7E	-72	-78	3
90 91	ABC46 ABC35	-3.3 -1	-4.7 -1.7	1.4 0.7	156.8 86.2	VOW3 GY PRU LN	DAX AV/ LN	-74 -74	-78 -81	2
92	ACTW30	-0.1	0	-0.1	28.1	UKX	F3FINS	-79	-74	-1
93	ACTW28	-0.2	-0.6	0.3	71.4	NG/ LN	F3UTLOS	-82	-89 70	6
94 95	AC121 ACTW25	-0.3 -0.7	1.3	-1.3 -1.9	79.9 155.2	TW/ LN RDSA LN	BDEV LN BP/ LN	-83 -84	-78 -89	-1 4
96	ABC29	0.3	-3	3.3	202.1	EXO IM	FTSEMIB	-85	-76	-4
97 98	AC53 JR43	0.9 -0.4	3.6 -0.6	-2.7 0.2	199.7 136.3	RDSA LN ALV GY	BP/ LN SXIP	-85 -87	-88 -83	0
99	ACTW6	-0.2	-1.3	1.1	91.1	LAND LN	F3REITS	-92	-90	2

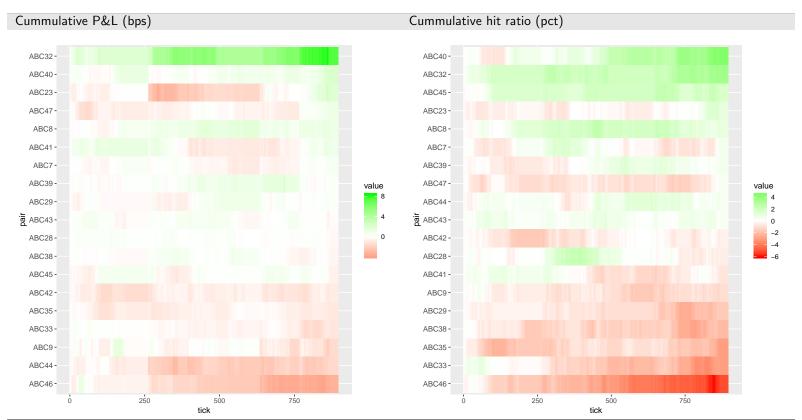






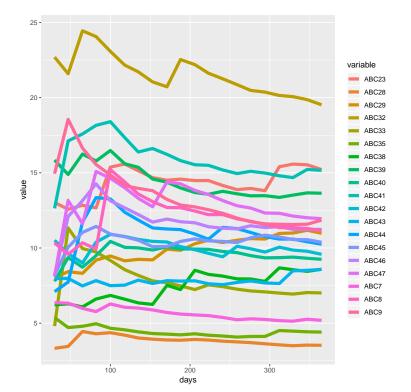


19 ABC performance image

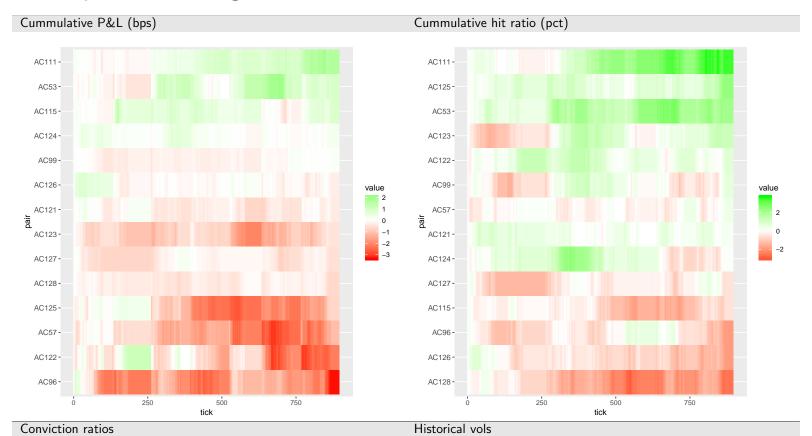


Conviction ratios Historical vols

	pair	1day conv	10min conv	30d vol	365d vol
1	ABC23	1.58	1.46	13	15.2
2	ABC32	1.48	1.54	22.7	19.5
3	ABC41	1.37	1.06	12.6	15.2
4	ABC39	1.26	1.2	15.8	13.6
5	ABC29	1.23	1.24	8	11
6	ABC9	1.19	1.75	14.9	11.9
7	ABC46	1.12	1.08	8.2	11.2
8	ABC47	1.09	0.87	8.1	11.9
9	ABC44	1.07	1.16	7.1	10.3
10	ABC8	1.02	1.05	10.3	11.2
11	ABC40	0.88	0.92	7.8	9.2
12	ABC45	0.87	0.88	8.2	10.4
13	ABC42	0.86	1.01	10.5	9.6
14	ABC38	0.81	0.58	6.2	8.6
15	ABC43	0.76	0.65	8	8.6
16	ABC33	0.72	0.58	4.8	7
17	ABC35	0.43	0.51	5.4	4.4
18	ABC7	0.43	0.63	6.4	5.2
19	ABC28	0.25	0.52	3.3	3.5

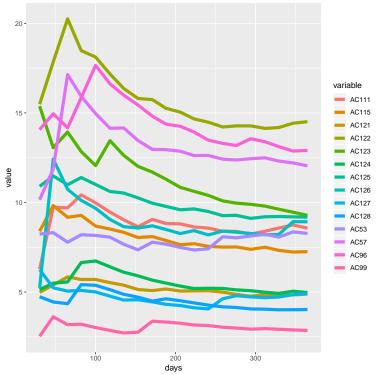


20 AC performance image

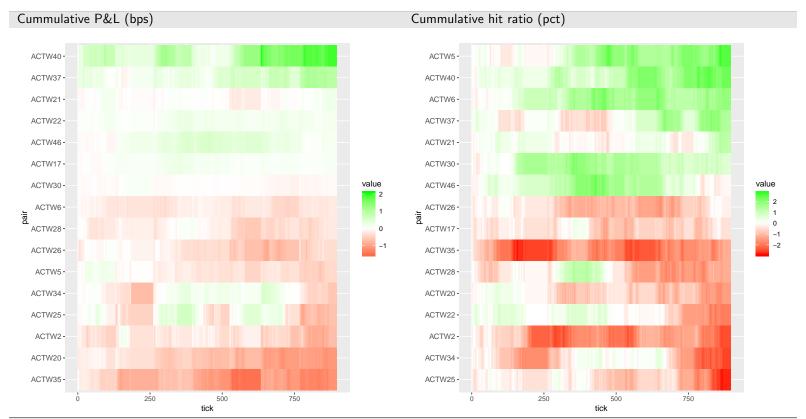


20 -	
20-	
20	

	nair	1day	10min	30d	365d
	pair	conv	conv	vol	vol
1	AC122	1.83	1.68	15.5	14.5
2	AC57	1.55	1.49	10.2	12
3	AC96	1.45	1.39	14.1	12.9
4	AC125	1.11	1.22	10.9	9.2
5	AC111	1.08	0.78	6.3	8.6
6	AC126	1.07	0.87	5.2	8.9
7	AC123	1.01	0.92	15.4	9.3
8	AC53	1	1.05	8.2	8.3
9	AC115	0.82	0.96	8.4	7.3
10	AC124	0.6	0.62	5.1	5
11	AC121	0.6	0.7	5	4.9
12	AC127	0.58	0.43	6.3	4.9
13	AC128	0.5	0.49	4.7	4
14	AC99	0.33	0.52	2.5	2.9

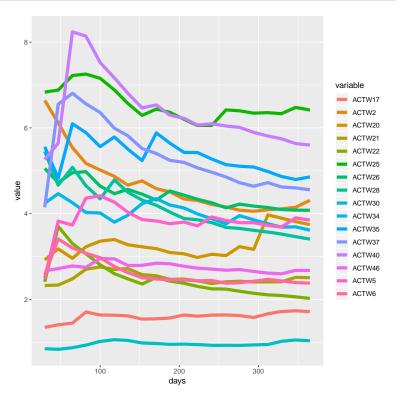


21 ACTW performance image

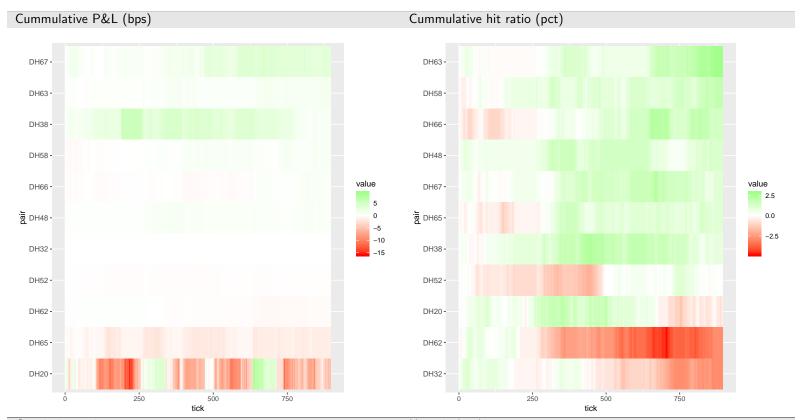


Conviction ratios Historical vols

	pair	1day conv	10min conv	30d vol	365d vol
1	ACTW25	1.97	1.94	6.8	6.4
2	ACTW40	1.56	1.99	5.3	5.6
3	ACTW2	1.53	2.04	6.6	4.3
4	ACTW37	1.41	1.37	4.1	4.6
5	ACTW35	1.38	1.17	5.6	4.9
6	ACTW26	1.27	1.25	5.1	4.1
7	ACTW20	1.15	1.02	2.9	3.7
8	ACTW5	1.11	1.06	2.5	3.8
9	ACTW34	1.01	1.25	4.2	3.6
10	ACTW28	0.96	0.89	5.5	3.4
11	ACTW21	0.88	0.76	2.3	2.5
12	ACTW46	8.0	0.74	2.7	2.7
13	ACTW6	0.7	0.73	2.6	2.4
14	ACTW22	0.54	0.59	2.4	2
15	ACTW17	0.49	0.35	1.3	1.7
16	ACTW30	0.29	0.38	0.9	1

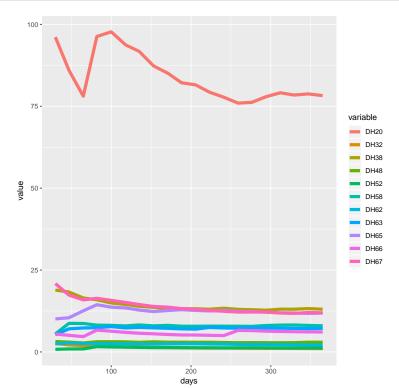


22 DH performance image

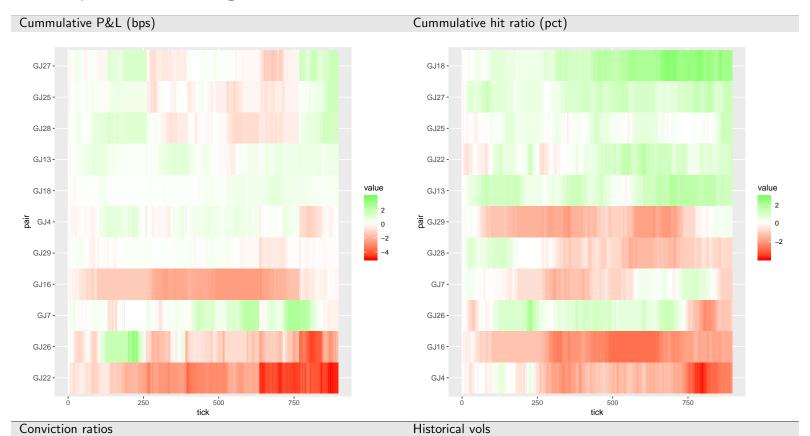


Conviction ratios	Historical vols
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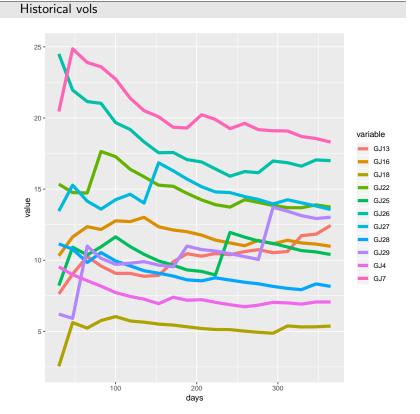
	nair	1day	10min	30d	365d
	pair	conv	conv	vol	vol
1	DH20	5.46	9.21	96.1	78.2
2	DH67	1.68	1.46	20.9	11.9
3	DH38	0.95	1.94	18.9	13
4	DH65	0.9	1	10.1	11.9
5	DH58	0.63	0.43	5.5	8
6	DH63	0.54	0.41	5.2	7.2
7	DH66	0.43	0.31	5.5	6.1
8	DH48	0.22	0.17	3.2	3
9	DH62	0.14	0.2	2.5	2.1
10	DH52	0.1	0.1	0.8	1.2
11	DH32	0.07	0.03	2.6	1



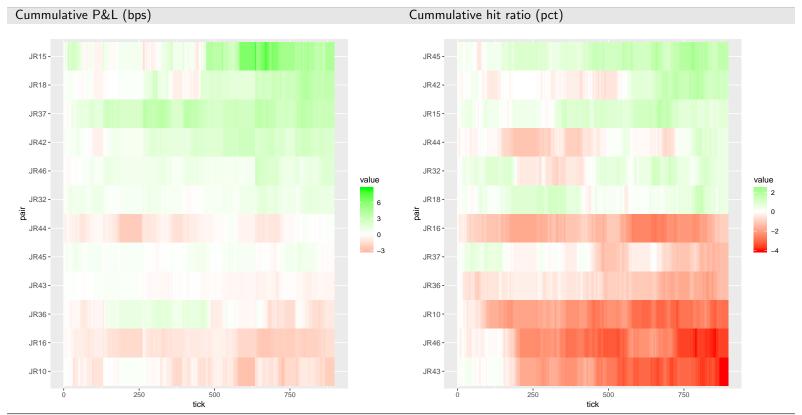
23 GJ performance image



	nair	1day	10min	30d	365d
	pair	conv	conv	vol	vol
1	GJ7	1.43	1.93	20.5	18.3
2	GJ26	1.32	2.36	24.5	17
3	GJ27	1.21	1.48	13.5	13.6
4	GJ13	1.21	0.73	7.6	12.4
5	GJ22	1.15	1.52	15.4	13.7
6	GJ29	1.02	0.77	6.2	13
7	GJ16	0.94	0.76	10.3	11
8	GJ25	0.85	1.01	8.2	10.4
9	GJ28	0.68	0.83	11.1	8.2
10	GJ18	0.61	0.35	2.5	5.4
11	G 14	0.57	1 11	9.5	7 1

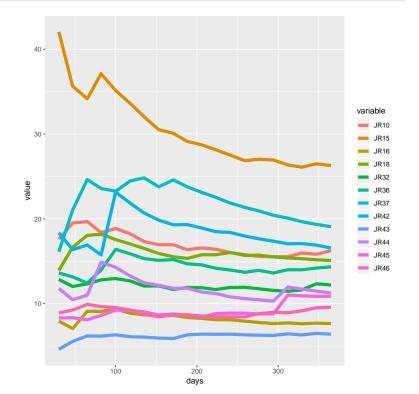


24 JR performance image

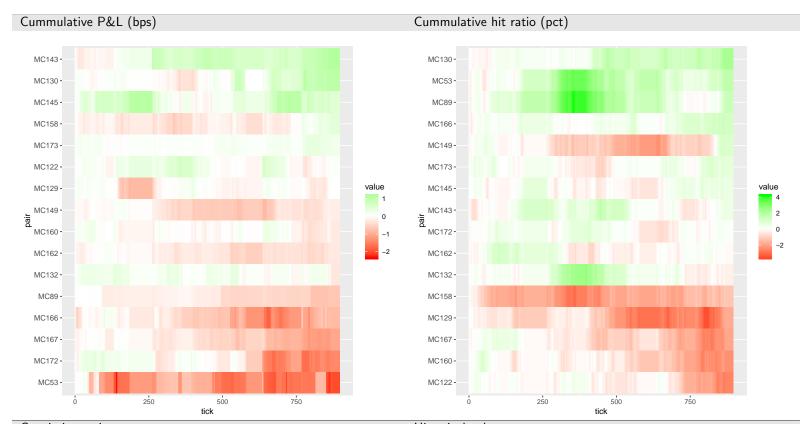


Conviction ratios Historical vols

	pair	1day conv	10min conv	30d vol	365d vol
1	JR15	3.8	3.21	42.1	26.3
2	JR10	1.41	1.5	17.6	16.3
3	JR37	1.3	1.21	16.1	19.1
4	JR42	1.26	1.05	18.4	16.6
5	JR36	1.06	1.44	13.6	14.3
6	JR18	1.03	1.35	13.9	15.1
7	JR45	0.94	0.78	8.3	10.9
8	JR32	0.91	0.79	12.9	12.2
9	JR44	0.81	1.08	11.8	11.3
10	JR16	0.75	0.69	7.9	7.6
11	JR46	0.73	0.9	8.9	9.6
12	JR43	0.48	0.43	4.6	6.4

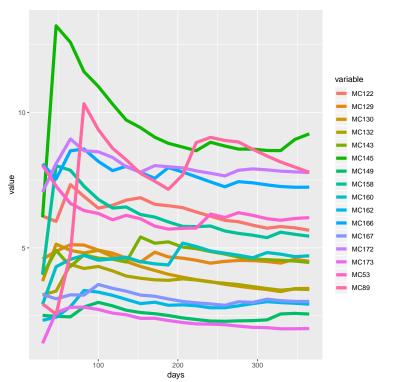


25 MC performance image



Conviction ratios	Historical vols

		1day	10min	30d	365d
	pair	conv	conv	vol	vol
1	MC172	1.72	1.54	7.1	7.8
2	MC145	1.7	1.51	6.1	9.2
3	MC166	1.47	1.61	8.1	7.2
4	MC53	1.37	2.81	8.1	6.1
5	MC89	1.19	0.4	2.9	7.8
6	MC158	1.17	1	4	5.4
7	MC160	1.04	1.01	2.9	4.7
8	MC122	1	1.11	6.2	5.6
9	MC143	0.94	1.08	4	4.5
10	MC129	0.85	0.93	4.6	4.5
11	MC130	0.79	1.32	3.8	3.5
12	MC162	0.73	0.66	2.3	2.9
13	MC167	0.67	0.77	3.3	3
14	MC132	0.53	1.17	3.3	3.5
15	MC149	0.52	0.6	2.5	2.6
16	MC173	0.41	0.46	1.5	2

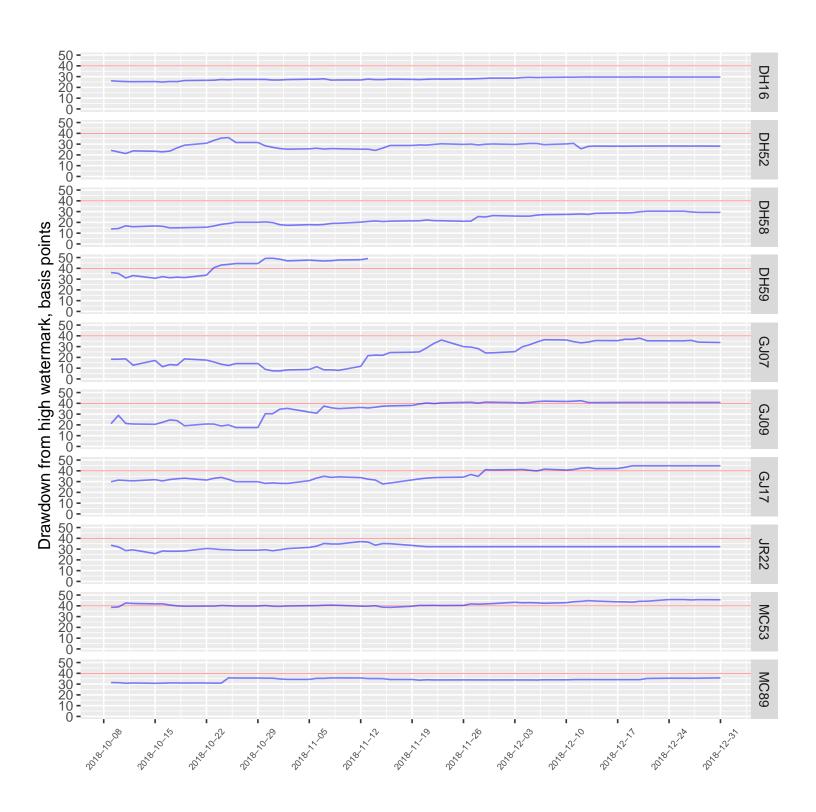


26 Data sources

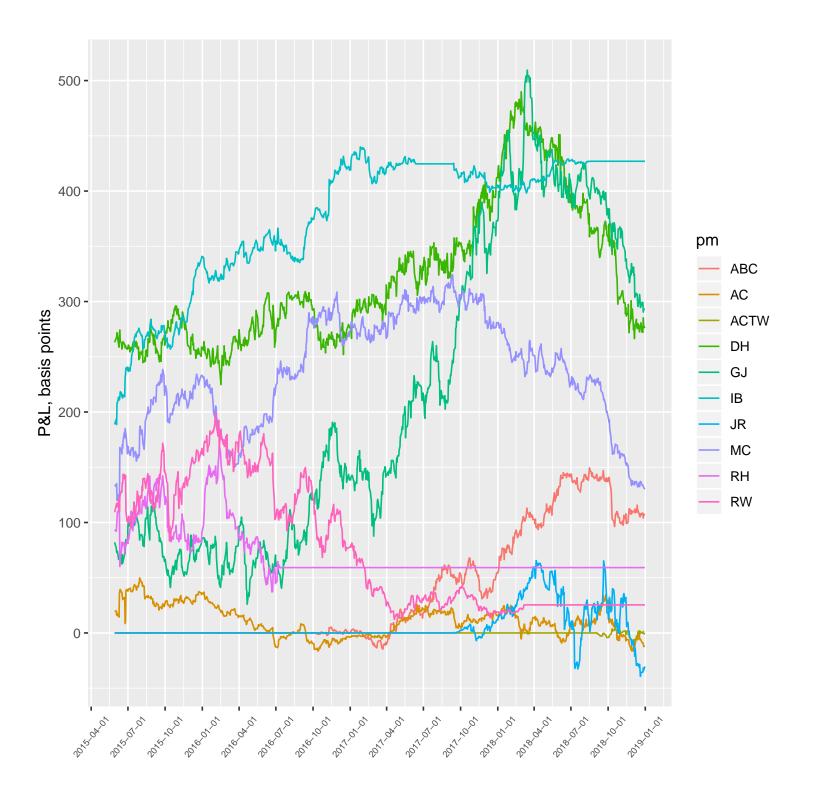
- We rely on the performance attribution database to obtain pair P&L time-series.
- The allocation of positions (and P&L) to pairs is a daily manual process that relies on a feed of settled trades from our custodian.
- This means that our information is out of date by at least the settlement period (best practice would be to have exposures on the day they were traded).
- Because coverage at the performance team varies, our numbers can be out of date beyond the settlement lag.
- A standard portfolio management system would bring this process up to current best practice.

LUKE 2019-01-02 12:00:00.0000000 DUKE 2019-01-02 12:00:00.00000000

Database copy date	
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PRDQSTFundPerformance_RestoreDateTime	2019-01-04 05:00:04



28.1 DUKE: All together



28.2 DUKE: By manager

