



Universidad  
Carlos III de Madrid

Sistemas de Información

Terminal Trading  
Andoni Alcelay

MÁSTER UNIVERSITARIO EN TECNOLOGÍAS DEL SECTOR FINANCIERO: FINTEC

## 1. Market spy

### 1.) Market Spy de todos los mercados/productos

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.425	35	5	15.450	15.420	1	14:56:43
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	0.000	0	-	-	-	-	-
M5	FA3TF9P	Open	Yes	4.33	10	-	-	-	-	12:13:55
M5	FA3TG9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TH9P	Open	Yes	4.33	10	-	-	-	-	09:35:49
M5	FA3TM9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TU9P	Open	Yes	4.03	10	-	-	-	-	15:02:08
M5	FA3TZ9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TH0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TM0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TU0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TZ0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TH1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TM1P	Open	Yes	3.24	10	-	-	-	-	12:28:03
M5	FA3TZ1P	Open	Yes	2.64	10	-	-	-	-	09:29:21
M5	FA3TM2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TZ2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TM3P	Open	Yes	2.07	236	5	2.05	4.00	6	14:31:01
M5	FACSF9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSG9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSH9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSU9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ9P	Open	Yes	0.00	0	102	32.00	35.00	50	-
M5	FACSH0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSU0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSH1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM3P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXF9P	Open	Yes	8.42	50	-	-	-	-	09:37:52
M5	FACXG9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXH9P	Open	Yes	8.46	10	-	-	-	-	09:36:14
M5	FACXM9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXU9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXZ9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXH0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXM0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXU0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXZ0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXH1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXM1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXZ1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXM2P	Open	Yes	7.06	10	-	-	-	-	09:37:31

### 2.) Market Spy de Meff:

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
M5	FA3TF9P	Open	Yes	4.33	10	-	-	-	-	12:13:55
M5	FA3TG9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TH9P	Open	Yes	4.33	10	-	-	-	-	09:35:49
M5	FA3TM9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TU9P	Open	Yes	4.03	10	-	-	-	-	15:02:08
M5	FA3TZ9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TH0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TM0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TU0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TZ0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TH1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TM1P	Open	Yes	3.24	10	-	-	-	-	12:28:03
M5	FA3TZ1P	Open	Yes	2.64	10	-	-	-	-	09:29:21
M5	FA3TM2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TZ2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FA3TM3P	Open	Yes	2.07	236	5	2.05	4.00	6	14:31:01
M5	FACSF9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSG9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSH9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSU9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ9P	Open	Yes	0.00	0	102	32.00	35.00	50	-
M5	FACSH0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSU0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ0P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSH1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ1P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSZ2P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACSM3P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXF9P	Open	Yes	8.42	50	-	-	-	-	09:37:52
M5	FACXG9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXH9P	Open	Yes	8.46	10	-	-	-	-	09:36:14
M5	FACXM9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXU9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXZ9P	Open	Yes	0.00	0	-	-	-	-	-
M5	FACXH0P	Open	Yes	0.00	0	-	-	-	-	-

## 3.) Market Spy de Mercado Interno:

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.425	35	5	15.450	15.420	1	14:56:43
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	0.000	0	-	-	-	-	-

- 4.) Market Spy de A3Media, Bankas y Ibex35 (Meff Rollover), para ello hay que abrir el desplegable del tipo de producto que se quiera mostrar, y elegir los deseados, para este caso esto ha sido lo elegido y se muestra esto:

The screenshot shows the Market Spy application with a table of instruments and a 'New Market Spy' dialog box.

**Market Spy Table:**

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
M5	SA3TF9G9P	Open	Yes	0.00	0	-	-	-	-	-
M5	SA3TF9H9P	Open	Yes	0.00	0	-	-	-	-	-
M5	SA3TG9H9P	Open	Yes	0.00	0	-	-	-	-	-
M5	SBKIF9G9P	Open	Yes	0.00	0	-	-	-	-	-
M5	SBKIF9H9P	Open	Yes	0.00	0	-	-	-	-	-
M5	SBKIG9H9P	Open	Yes	0.00	0	-	-	-	-	-
M5	SIBXF9G9	Open	Yes	0.0	0	-	-	-	-	-

**New Market Spy Dialog:**

- Generic: ☒ IM - Mercado Interno
- Options: ☒ M5 - Meff HFT
- ☒ Futures
- ☒ Options
- ☒ Rollovers
- ☒ A3M (ATRESMEDIA)
- ☒ ACS (ACS)
- ☒ ACX (ACERINOX)
- ☒ BKIA (BANKIA)
- ☒ BME (BME)
- ☒ I3S (IBEX PLUS)
- ☒ MIX (IBEX MINI)
- ☒ TEF (TELEFONICA)

**CkTS Event Log:**

Time	From	Text
03:13:32	CkTS	Dictionary initialization completed.
03:13:32	CkTS	Price diffusion subscription ends
03:13:31	CkTS	Price diffusion subscription starts - PriceManager 1 (2.139.169.49:14501)
03:13:31	CkTS	Trading subscription ends - OrderManager (2.139.169.49:14002)

- 5.) Para hacerlo por divisa ser añade la columna divisa y en el propio filtro aparece las divisas seleccionables, y la opción de filtrar por ellas

The screenshot shows the Market Spy application with a table of instruments and a filter dropdown menu.

**Market Spy Table:**

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd	Curr
M5	FA3TZ1P	Open	Yes	2.64	10	-	-	-	-	09:29:21	EUR
M5	FA3TM2P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FA3TZ2P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FA3TM3P	Open	Yes	2.07	236	5	2.05	4.00	6	14:31:01	EUR
M5	FACSF9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSG9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSH9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSM9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSU9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSZ9P	Open	Yes	0.00	0	102	32.00	35.00	50	-	EUR
M5	FACSH0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSM0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSU0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSZ0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSH1P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSM1P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSZ1P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSM2P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSZ2P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACSM3P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXF9P	Open	Yes	8.42	50	-	-	-	-	09:37:52	EUR
M5	FACXG9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXH9P	Open	Yes	8.46	10	-	-	-	-	09:36:14	EUR
M5	FACXM9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXU9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXZ9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXH0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXM0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXU0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXZ0P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXH1P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXM1P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXZ1P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXM2P	Open	Yes	7.06	10	-	-	-	-	09:37:31	EUR
M5	FACXZ2P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FACXM3P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FBKIF9P	Open	Yes	2.55	50	-	-	-	-	11:56:01	EUR
M5	FBKIG9P	Open	Yes	0.00	0	-	-	-	-	-	EUR
M5	FBKIM9P	Open	Yes	0.00	0	-	-	-	-	-	EUR

**Filter Dropdown:**

- (Custom)
- EUR

- 6.) Para crear un marginal donde Bid sea mayor que 0, por ejemplo, se selecciona esa columna y se abre un editor de filtros, en ese editor se escribe lo que pone en la imagen

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd	Curr
IM	STRIPS-30-Jul-32	Open	Yes	15.425	35	5	15.450	15.420	1	14:56:43	EUR
M5	FA3TM3P	Open	Yes	2.07	236	5	2.05	4.00	6	14:31:01	EUR
M5	FACSZ9P	Open	Yes	0.00	0	102	32.00	35.00	50	-	EUR
M5	FIBXH1	Open	Yes	7,705	12	5	7,704	7,706	8	13:29:28	EUR
M5	CIBX 6500H19	Open	Yes	0	0	2	1	-	-	-	EUR

Filter Editor

And

[Bid] Is greater than 0

- 7.) A continuación, se cogen todas las ordenes y se ordenan por el ultimo precio de forma descendiente de la siguiente forma:

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd	Curr
M5	FIBXF9	Open	Yes	8,545	1	-	-	-	-	14:55:22	EUR
M5	FIBXH9	Open	Yes	8,536	242	-	-	-	-	15:05:25	EUR
M5	FMDKH9	Open	Yes	8,495	27	-	-	-	-	14:39:20	EUR
M5	FIBXZ9	Open	Yes	8,195	2	-	-	-	-	14:57:24	EUR
M5	FMDX20	Open	Yes	7,765	10	-	-	-	-	11:39:06	EUR
M5	FIBXH1	Open	Yes	7,705	12	5	7,704	7,706	8	13:29:28	EUR
M5	FMDXM2	Open	Yes	7,030	20	-	-	-	-	15:06:54	EUR
M5	CIBX 6600H19	Open	Yes	2,070	12	-	-	-	-	15:12:49	EUR
M5	SMDXF9G9									15:13:24	EUR
M5	FBMEZ1P									13:08:12	EUR
IM	STRIPS-30-Jul-32									15:35:14	EUR
IM	IBRD-07-Jun-21									15:31:02	EUR
M5	FACXH9P									09:36:14	EUR
M5	FACXF9P									09:37:52	EUR
M5	FTEFF9P101									12:50:33	EUR
M5	FTEF69P101									10:25:40	EUR
M5	FTEFZ9P101									11:02:25	EUR
M5	FACXM2P									09:37:31	EUR
M5	FA3TF9P									12:13:55	EUR
M5	FA3TH9P									09:35:49	EUR
M5	FA3TU9P									15:02:08	EUR
M5	FA3TM1P									12:28:03	EUR
M5	FA3TZ1P									09:29:21	EUR
M5	FBKIF9P	Open	Yes	2.55	50	-	-	-	-	11:56:01	EUR
M5	FBKIZ9P	Open	Yes	2.42	10	-	-	-	-	12:39:07	EUR
M5	FBKIZ0P	Open	Yes	2.28	10	-	-	-	-	15:01:35	EUR
M5	FA3TM3P	Open	Yes	2.07	236	5	2.05	4.00	6	14:31:01	EUR
M5	PIBX10100Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX12200Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX10800Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX10000Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX10300Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX10200Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX10700Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX 8500Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX10400Z19	Open	Yes	0	0	-	-	-	-	-	EUR
M5	PIBX10900Z19	Open	Yes	0	0	-	-	-	-	-	EUR

Define sort criteria

Property	Direction
Last trend	Ascending
Last trend %	
UL-Last price	
XT-Total volume	
T0-Bid volume	
C0-Bid price	
V0-Ask price	

☐ Create groups

OK Cancel

- 8.) Por último para añadir contratos o grupos en la configuración de Market Spy se le da a añadir grupo de manera que se añade uno con el nombre deseado y dejando el monitor así:

▼ Default											
...	FIBXF9	Open	Yes	8,545	1	-	-	-	-	14:55:22	EUR
...	FIBXH9	Open	Yes	8,536	242	-	-	-	-	15:05:25	EUR
...	FMDX9	Open	Yes	8,495	27	-	-	-	-	14:39:20	EUR
...	FIBXZ9	Open	Yes	8,195	2	-	-	-	-	14:57:24	EUR
...	FMDX20	Open	Yes	7,765	10	-	-	-	-	11:39:06	EUR
...	FIBXH1	Open	Yes	7,705	12	5	7,704	7,706	8	13:29:28	EUR
...	FMDX2	Open	Yes	7,030	20	-	-	-	-	15:06:54	EUR
...	CIBX 6600H19	Open	Yes	2,070	12	-	-	-	-	15:12:49	EUR
...	SMDXF9G9	Open	Yes	31.0	14	-	-	-	-	15:13:24	EUR
▼ Grupo 1											
...	FBMEZ1P	Open	Yes	20.15	24	-	-	-	-	13:08:12	EUR
IM	STRIPS-30-Jul-32	Open	Yes	15.450	43	4	15.450	15.415	1	15:37:58	EUR
IM	IBRD-07-Jun-21	Open	Yes	15.400	50	-	-	-	-	15:31:02	EUR
...	FACXH9P	Open	Yes	8.46	10	-	-	-	-	09:36:14	EUR
...	FACXF9P	Open	Yes	8.42	50	-	-	-	-	09:37:52	EUR
...	FTEFF9P101	Open	Yes	7.51	10	-	-	-	-	12:50:33	EUR
...	FTEFG9P101	Open	Yes	7.51	10	-	-	-	-	10:25:40	EUR
...	FTEFZ9P101	Open	Yes	7.11	10	-	-	-	-	11:02:25	EUR
...	FACXM2P	Open	Yes	7.06	10	-	-	-	-	09:37:31	EUR
...	FA3TF9P	Open	Yes	4.33	10	-	-	-	-	12:13:55	EUR
...	FA3TH9P	Open	Yes	4.33	10	10	4.36	-	-	09:35:49	EUR

## 2. Órdenes, precios y profundidad

Para este ejemplo, operaremos con el producto FA3TM3P e insertaremos una orden de compra para esto insertando un precio igual o superior que el que se pide para las ordenes de tipo P

...	FMDX20	Open	Yes	7,765	10	-	-	-	-	11:39:06	EUR	P
...	FIBXH1	Open	Yes	7,705	12	5	7,704	7,706	8	13:29:28	EUR	P
...	FMDX2	Open	Yes	7,030	20	-	-	-	-	15:06:54	EUR	P
...	CIBX 6600	Open	Yes	2,070	12	-	-	-	-	15:12:49	EUR	P
...	SMDXF9G9	Open	Yes	31.0	14	-	-	-	-	15:13:24	EUR	P
▼ Grupo 1												
...	FBMEZ1P	Open	Yes	20.15	24	-	-	-	-	13:08:12	EUR	P
IM	STRIPS-30-Jul-32	Open	Yes	15.450	43	4	15.450	15.415	1	15:40:27	EUR	T
IM	IBRD-07-Jun-21	Open	Yes	15.400	50	-	-	-	-	15:31:02	EUR	P
...	FACXH9P	Open	Yes	8.46	10	-	-	-	-	09:36:14	EUR	P
...	FACXF9P	Open	Yes	8.42	50	-	-	-	-	09:37:52	EUR	P
...	FTEFF9P101	Open	Yes	7.51	10	-	-	-	-	12:50:33	EUR	P
...	FTEFG9P101	Open	Yes	7.51	10	-	-	-	-	10:25:40	EUR	P
...	FTEFZ9P101	Open	Yes	7.11	10	-	-	-	-	11:02:25	EUR	P
...	FACXM2P	Open	Yes	7.06	10	-	-	-	-	09:37:31	EUR	P
...	FA3TF9P	Open	Yes	4.33	10	-	-	-	-	12:13:55	EUR	P
...	FA3TH9P	Open	Yes	4.33	10	10	4.36	-	-	15:11:42	EUR	P
...	FA3TU9P	Open	Yes	4.03	10	-	-	-	-	15:02:08	EUR	P
...	FA3TM1P	Open	Yes	3.24	10	-	-	-	-	12:28:03	EUR	P
...	FA3TZ1P	Open	Yes	2.64	10	-	-	-	-	09:29:21	EUR	P
...	FBKIF9P	Open	Yes	2.55	50	-	-	-	-	11:56:01	EUR	P
...	FBKIZ9P	Open	Yes	2.42	10	-	-	-	-	12:39:07	EUR	P
...	FBKIZ0P	Open	Yes	2.28	10	-	-	-	-	15:01:35	EUR	P
...	FA3TM3P	Open	Yes	2.07	236	5	2.05	4.00	6	14:31:01	EUR	P
...	PIBX10100Z19	Open	Yes	0	0	-	-	-	-	-	EUR	P
...	PIBX12200Z19	Open	Yes	0	0	-	-	-	-	-	EUR	P

Después introduciremos una orden de venta con precio superior al que se pide para la compra.

...	FMDX9	Open	Yes	8,495	27	-	-	-	-	14:39:20	EUR	P
...	FIBXZ9	Open	Yes	8,195	2	-	-	-	-	14:57:24	EUR	P
...	FMDX20	Open	Yes	7,765	10	-	-	-	-	11:39:06	EUR	P
...	FIBXH1	Open	Yes	7,705	12	5	7,704	7,706	8	13:29:28	EUR	P
...	FMDX2	Open	Yes	7,030	20	-	-	-	-	15:06:54	EUR	P
...	CIBX 6600H19	Open	Yes	2,070	12	-	-	-	-	15:12:49	EUR	P
...	SMDF9G9	Open	Yes	21.0	14	-	-	-	-	15:13:24	EUR	P
Grupo 1												
...	FBMEZ1P									3:08:12	EUR	P
IM	STRIPS-30-Jul-30									5:40:27	EUR	T
IM	IBRD-07-Jun-21									5:31:02	EUR	P
...	FACXH9P									9:36:14	EUR	P
...	FACXF9P									9:37:52	EUR	P
...	FTEFF9P101									2:50:33	EUR	P
...	FTEFG9P101									0:25:40	EUR	P
...	FTEFZ9P101									1:02:25	EUR	P
...	FACXM2P									9:37:31	EUR	P
...	FA3TF9P									2:13:55	EUR	P
...	FA3TH9P									5:51:42	EUR	P
...	FA3TU9P									5:02:08	EUR	P
...	FA3TM1P									2:28:03	EUR	P
...	FA3T21P									9:29:21	EUR	P
...	FBKIF9P	Open	Yes	2,55	50	-	-	-	-	11:56:01	EUR	P
...	FBKIZ9P	Open	Yes	2,42	10	-	-	-	-	12:39:07	EUR	P
...	FBKIZ0P	Open	Yes	2,28	10	-	-	-	-	15:01:35	EUR	P
...	FA3TM3P	Open	Yes	2,07	236	6	2,05	4,00	6	14:31:01	EUR	P

Por ultimo introducimos un precio de compra inferior al marginal de compra. No se actualiza en el Market Spy pero sí en el order book.

...	FMDX9	Open	Yes	8,495	27	-	-	-	-	14:39:20	EUR	P
...	FIBXZ9	Open	Yes	8,195	2	-	-	-	-	14:57:24	EUR	P
...	FMDX20	Open	Yes	7,765	10	-	-	-	-	11:39:06	EUR	P
...	FIBXH1	Open	Yes	7,705	12	5	7,704	7,706	8	13:29:28	EUR	P
...	FMDX2	Open	Yes	7,030	20	-	-	-	-	15:06:54	EUR	P
...	CIBX 6600	Open	Yes	2,070	12	-	-	-	-	15:12:49	EUR	P
...	SMDF9G9	Open	Yes	21.0	14	-	-	-	-	15:13:24	EUR	P
Grupo 1												
...	FBMEZ1P									3:08:12	EUR	P
IM	STRIPS-30									5:40:27	EUR	T
IM	IBRD-07-Jun-21									5:31:02	EUR	P
...	FACXH9P									9:36:14	EUR	P
...	FACXF9P									9:37:52	EUR	P
...	FTEFF9P101									2:50:33	EUR	P
...	FTEFG9P101									0:25:40	EUR	P
...	FTEFZ9P101									1:02:25	EUR	P
...	FACXM2P									9:37:31	EUR	P
...	FA3TF9P									2:13:55	EUR	P
...	FA3TH9P									5:51:42	EUR	P
...	FA3TU9P									5:02:08	EUR	P
...	FA3TM1P									2:28:03	EUR	P
...	FA3T21P									9:29:21	EUR	P
...	FBKIF9P	Open	Yes	2,55	50	-	-	-	-	11:56:01	EUR	P
...	FBKIZ9P	Open	Yes	2,42	10	-	-	-	-	12:39:07	EUR	P
...	FBKIZ0P	Open	Yes	2,28	10	-	-	-	-	15:01:35	EUR	P
...	FA3TM3P	Open	Yes	2,07	236	6	2,05	4,00	6	14:31:01	EUR	P
...	PIBX10100Z19	Open	Yes	0	0	-	-	-	-	-	EUR	P
...	PIBX12200Z19	Open	Yes	0	0	-	-	-	-	-	EUR	P

FXF969	Open	Yes	31.0	14	-	-	-	15:13:24	EUR	P
BMEZ1P	Open	Yes	20	-	-	-	-	13:08:12	EUR	P
STRIPS-30-Jul-32	Open	Yes	15.4	-	-	-	-	15:40:27	EUR	T
IBRD-07-Jun-21	Open	Yes	15.4	-	-	-	-	15:31:02	EUR	P
ACXH9P	Open	Yes	8	-	-	-	-	09:36:14	EUR	P
ACXF9P	Open	Yes	8	-	-	-	-	09:37:52	EUR	P
TEFF9P101	Open	Yes	7	-	-	-	-	12:50:33	EUR	P
TEFG9P101	Open	Yes	7	-	-	-	-	10:25:40	EUR	P
TEFZ9P101	Open	Yes	7	-	-	-	-	11:02:25	EUR	P
ACXM2P	Open	Yes	7	-	-	-	-	09:37:31	EUR	P
A3TF9P	Open	Yes	4	-	-	-	-	12:13:55	EUR	P
A3TH9P	Open	Yes	4	-	-	-	-	15:51:42	EUR	P
A3TU9P	Open	Yes	4	-	-	-	-	15:02:08	EUR	P
A3TM1P	Open	Yes	3	-	-	-	-	12:28:03	EUR	P
A3TZ1P	Open	Yes	2	-	-	-	-	09:29:21	EUR	P
FBKIF9P	Open	Yes	2.55	50	-	-	-	11:56:01	EUR	P
FBKIZ9P	Open	Yes	2.42	10	-	-	-	12:39:07	EUR	P
FBKIZ0P	Open	Yes	2.28	10	-	-	-	15:01:35	EUR	P
A3TM3P	Open	Yes	2.07	236	6	2.05	4.00	14:31:01	EUR	P
PIBX10100Z19	Open	Yes	0	0	-	-	-	-	EUR	P

Al introducir un precio de venta que quede por debajo del marginal de compra las órdenes se cruzan.

FBKIZ9P	Open	Yes	2.42	10	-	-	-	12:39:07	EUR	P
FBKIZ0P	Open	Yes	2.28	10	-	-	-	15:01:35	EUR	P
FA3TM3P	Open	Yes	2.07	236	6	2.05	3.90	14:31:01	EUR	P
PIBX10100Z19	Open	Yes	0	0	-	-	-	-	EUR	P
PIBX12200Z19	Open	Yes	0	0	-	-	-	-	EUR	P

Por último introducimos una orden de compra que se cruza con el marginal de venta, para ello el precio debe ser superior.

FBXZ9	Open	Yes	8,195	2	-	-	-	14:57:24	EUR	
FMIXZ0	Open	Yes	7,765	10	-	-	-	11:39:06	EUR	
FIBXH1	Open	Yes	7,705	12	5	7,704	7,706	13:29:28	EUR	
FMIXM2								15:06:54	EUR	
CIBX 6600								15:12:49	EUR	
SMIXF969								15:13:24	EUR	
Grupo 1										
FBMEZ1P								13:08:12	EUR	
IM STRIPS-30-Jul-32								15:40:27	EUR	
IM IBRD-07-Jun-21								15:31:02	EUR	
FACXH9P								09:36:14	EUR	
FACXF9P								09:37:52	EUR	
FTEFF9P10								12:50:33	EUR	
FTEFG9P10								10:25:40	EUR	
FTEFZ9P10								11:02:25	EUR	
FACXM2P								09:37:31	EUR	
FA3TF9P								12:13:55	EUR	
FA3TH9P								15:51:42	EUR	
FA3TU9P	Open	Yes	4.03	10	-	-	-	15:02:08	EUR	
FA3TM1P	Open	Yes	3.24	10	-	-	-	12:28:03	EUR	
FA3TZ1P	Open	Yes	2.64	10	-	-	-	09:29:21	EUR	
FBKIF9P	Open	Yes	2.55	50	-	-	-	11:56:01	EUR	

- Idem con las de (tipo de interés/tiempo) para productos de tipo T (Interés, Rate). Utilizar el mercado IM para este tipo de contratos. Para detectar estos contratos, hay que comprobarlo con la consulta de contratos y en el tipo precio encontraremos "T". Repetir los mismos pasos que en el punto anterior, teniendo en cuenta que el interés funciona de forma inversa que el precio. Se localizan en el Mercado IM en el grupo de Coupons.



Para introducir un precio de compra que quede por encima del marginal de compra tenemos que introducir un precio

The screenshot shows the MarketSpy terminal with a table of market data and an 'Order entry' dialog box. The table lists three instruments: STRIPS-30-Jul-32, IBRD-07-Jun-21, and STRIPS-31-Jan-29. The 'Order entry' dialog is for a 'BUY' order of type 'Limit' with a volume of 10 and a price of 15.455. The 'Best bid' is 40@15.460 and the 'Best ask' is 1@15.430.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.465	97	40	15.460	15.430	1	16:52:09
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	23.900	15	50	23.825	23.900	15	17:05:52

Order entry dialog details:

- Symbol: IM.STRIPS-30-Jul-32
- Order type: Limit
- Volume: 10
- Price: 15.455
- Limit date: Today (1/3/2019)
- Account: Daily (IM001)
- Reference:
- Text:
- Best bid: 40@15.460
- Best ask: 1@15.430
- Buttons: Send, Exit
- Bottom bar: BUY | STRIPS-30-Jul-32

Para introducir un precio de venta que quede por encima del marginal de compra lo que hacemos es introducir un precio inferior al de compra.

The screenshot shows the MarketSpy terminal with the same market data table as before. The 'Order entry' dialog is now for a 'SELL' order of type 'Limit' with a volume of 15 and a price of 15.435. The 'Best bid' is 10@15.455 and the 'Best ask' is 1@15.430.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.465	97	10	15.455	15.430	1	16:52:09
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	23.900	15	50	23.825	23.900	15	17:05:52

Order entry dialog details:

- Symbol: IM.STRIPS-30-Jul-32
- Order type: Limit
- Volume: 15
- Price: 15.435
- Limit date: Today (1/3/2019)
- Account: Daily (IM001)
- Reference:
- Text:
- Best bid: 10@15.455
- Best ask: 1@15.430
- Buttons: Send, Exit
- Bottom bar: SELL | STRIPS-30-Jul-32

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.465	97	10	15.455	15.435	15	16:52:09
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	23.900	15	50	23.825	23.900	15	17:05:52

Se introduce un precio de compra más alto que el marginal de compra para que así quede por debajo.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.465	97	10	15.455	15.435	15	16:52:09
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	23.900	15	50	23.825	23.900	15	17:05:52

Order entry

Symbol

IM.STRIPS-30-Jul-32

Order type

Limit

Volume

1

Price

P 15.485

Limit date

Today

1/3/2019

Account

Daily

IM001

Reference

Text

Best bid

10@15.455

Best ask

15@15.435

Send

Exit

BUY

STRIPS-30-Jul-32

Un marginal de venta que quede por debajo del marginal de compra es un precio igual o superior al marginal de compra.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.465	97	10	15.455	15.435	15	16:52:09
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	23.900	15	50	23.825	23.900	15	17:05:52

Order entry

Symbol

IM.STRIPS-30-Jul-32

Order type

Limit

Volume

5

Price

P 15.445

Limit date

Today

1/3/2019

Account

Daily

IM001

Reference

Text

Best bid

10@15.455

Best ask

15@15.435

Send

Exit

SELL

STRIPS-30-Jul-32

Para que se cruce con el marginal de venta el precio debe ser inferior.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.465	97	10	15.455	15.445	5	16:52:09
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	23.900	15	50	23.825	23.900	15	17:05:52

Order entry

Symbol

IM.STRIPS-30-Jul-32

Order type

Limit

Volume

10

Price

P 15.440

Limit date

Today

1/3/2019

Account

Daily

IM001

Reference

Text

Best bid

10@15.455

Best ask

5@15.445

Send

Exit

BUY

STRIPS-30-Jul-32

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.445	102	5	15.440	15.435	15	17:24:48
IM	IBRD-07-Jun-21	Open	Yes	0.000	0	-	-	-	-	-
IM	STRIPS-31-Jan-29	Open	Yes	23.900	15	50	23.825	23.900	15	17:05:52

### 3. Distintos tipos de órdenes nativas

IOC (Ataque): Esta orden la admiten todos los mercados configurados. Comprobar los siguientes casos:

- a. Sin marginal contrario al mismo precio.

Una orden IOC o de ataque es una orden que barre el libro de órdenes hasta un determinado precio y volumen. Veremos qué pasa con los siguientes ejemplos.

The screenshot shows the MarketSpy interface with a table of market data and an 'Order entry' dialog box. The table has columns: Mk, Symb, Stat, Diff, Last, Qty, Bid V, Bid, Ask, Ask V, Last trd. The data row shows M5, FACSZ9P, Open, Yes, 0.00, 0, 102, 32.00, 35.00, 50, -.

The 'Order entry' dialog box contains the following fields:

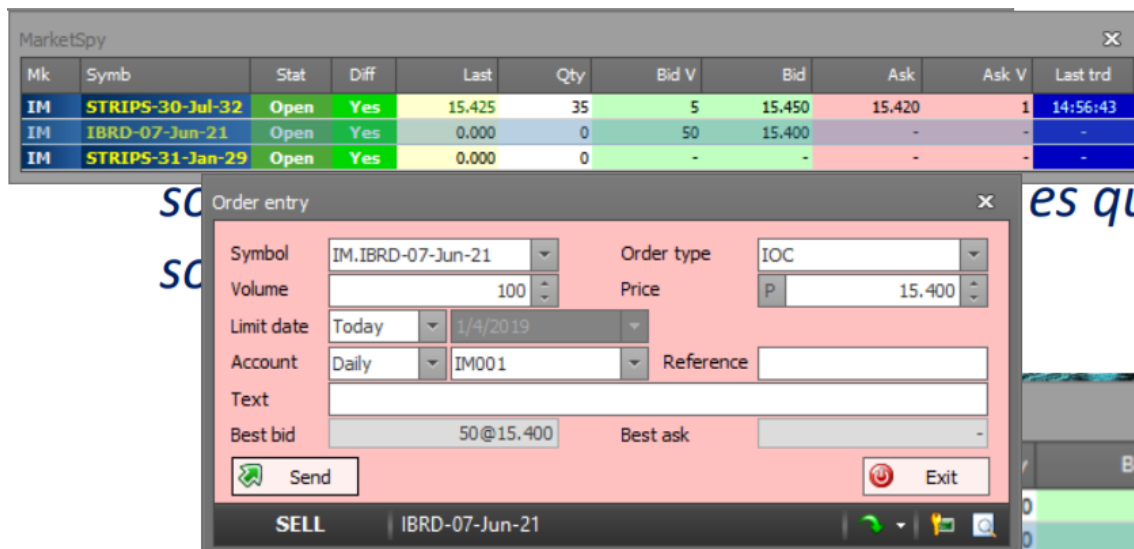
- Symbol: M5.FACSZ9P
- Order type: IOC
- Volume: 100
- Price: P 34.50
- Limit date: Today 1/4/2019
- Account: Daily 00101
- Reference: (empty)
- Text: (empty)
- Best bid: 102@32.00
- Best ask: 50@35.00
- Buttons: Send, Exit
- Footer: BUY ACS Dec.19

- b. Con menos marginal contrario del volumen de la orden.

The screenshot shows the MarketSpy interface with the same table of market data as above. The 'Order entry' dialog box contains the following fields:

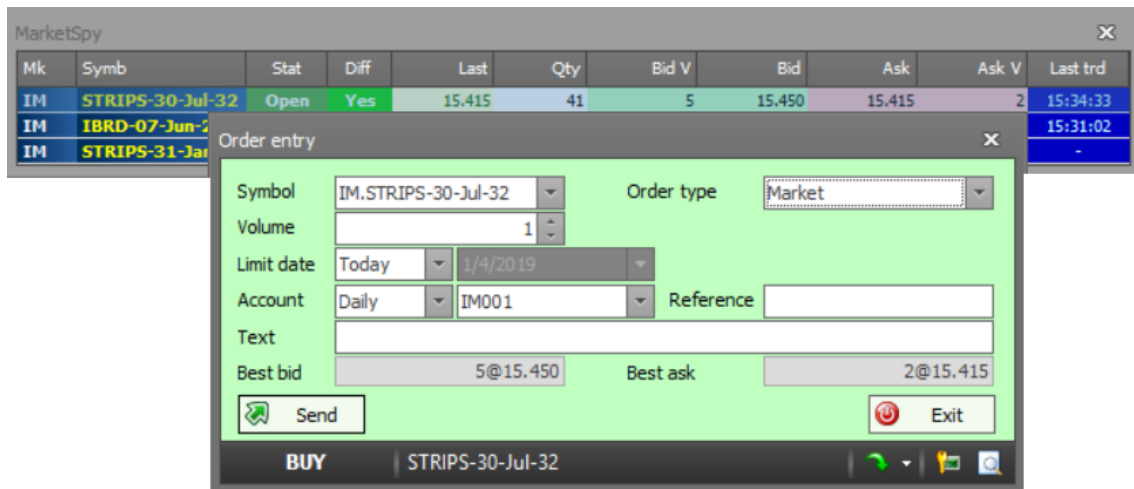
- Symbol: M5.FACSZ9P
- Order type: IOC
- Volume: 50
- Price: P 34.00
- Limit date: Today 1/4/2019
- Account: Daily 00101
- Reference: (empty)
- Text: (empty)
- Best bid: 102@32.00
- Best ask: 50@35.00
- Buttons: Send, Exit
- Footer: BUY ACS Dec.19

- o Con igual o más volumen del marginal contrario.

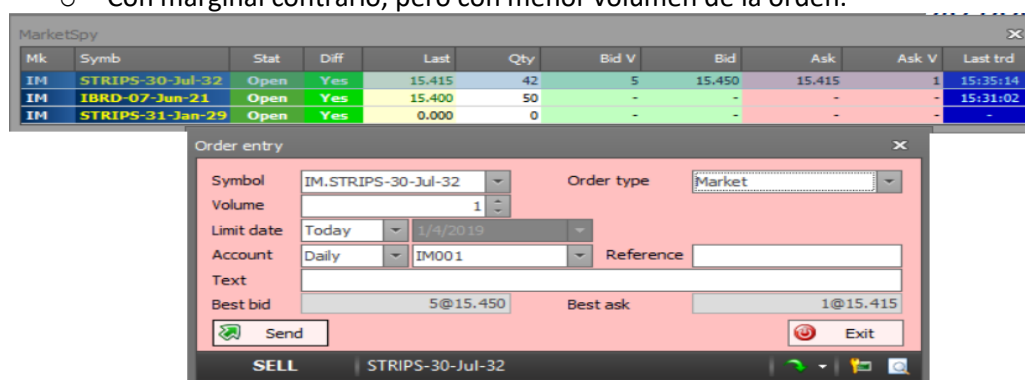


- Market (Mercado): Esta orden la admiten todos los mercados configurados. Comprobar los siguientes casos:
  - Sin marginal contrario.

Las órdenes de mercado son las que se adaptan al precio de mercado de cada momento. En el primer ejemplo se ve como una orden con volumen 1 hace que el volumen de ask se quede en 1 unidad ya que se cruza.



- Con marginal contrario, pero con menor volumen de la orden.



- Con marginal contrario, pero con mayor volumen de la orden.

Al meter una orden con un volumen mayor al que existe en la cabecera del libro de órdenes, la orden se cruza y después se actualiza el precio marginal de venta que es el siguiente al que ya existía. A ese segundo precio es al que se ha acabado de cruzar la orden de mercado.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
IM	STRIPS-30-Jul-32	Open	Yes	15.450	43	4	15.450	15.415	1	15:37:58
IM	IBRD-07-Jun-2									15:31:02
IM	STRIPS-31-Jan									-

Order entry

Symbol: IM.STRIPS-30-Jul-32 Order type: Market

Volume: 2

Limit date: Today 1/4/2019

Account: Daily IM001 Reference:

Text:

Best bid: 4@15.450 Best ask: 1@15.415

Send Exit

BUY STRIPS-30-Jul-32

- Fill or Kill: Esta orden la admite el mercado de Meff únicamente. Comprobar los siguientes casos:

- Sin marginal contrario al precio de la orden.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
M5	FACSZ9P	Open	Yes	0.00	0	102	32.00	35.00	50	-

Order entry

Symbol: M5.FACSZ9P Order type: Fill or kill

Volume: 10 Price: P 32.00

Limit date: Today 1/4/2019

Account: Daily 00101 Reference:

Text:

Best bid: 102@32.00 Best ask: 50@35.00

Send Exit

BUY ACS Dec.19

- Con menos contrapartida del volumen de la orden.

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
M5	FACSZ9P	Open	Yes	0.00	0	102	32.00	35.00	50	-

Order entry

Symbol: M5.FACSZ9P Order type: Fill or kill

Volume: 10 Price: P 32.00

Limit date: Today 1/4/2019

Account: Daily 00101 Reference:

Text:

Best bid: 102@32.00 Best ask: 50@35.00

Send Exit

BUY ACS Dec.19

- Con igual o más volumen en la contrapartida.

MarketSpy

Mk	Symb	Stat	Diff	Last	Qty	Bid V	Bid	Ask	Ask V	Last trd
M5	FACSZ9P	Open	Yes	0.00	0	102	32.00	35.00	50	-

Order entry

Symbol: M5.FACSZ9P    Order type: Fill or kill

Volume: 100    Price: P 35.00

Limit date: Today 1/4/2019

Account: Daily 00101    Reference:

Text:

Best bid: 102@32.00    Best ask: 50@35.00

Send    Exit

BUY    ACS Dec.19

#### 4. Posición Abierta

Después de todas las operaciones a lo largo de la práctica, se han quedado unas posiciones determinadas. Consultarlas en la Aplicación, capturar esa pantalla y explicarla brevemente. Además interpretar las siguientes cuestiones:

- ¿La posición final es corta o larga?
- Diferencia entre Posición abierta y Potencial posición abierta.

Esta práctica la he hecho durante varios días, para este punto, ya que lo he hecho en un solo día, pondré las órdenes correspondientes al día de hoy 04/01

Open positions

Filters

Owner

Account

Show groups

Open pos: 8

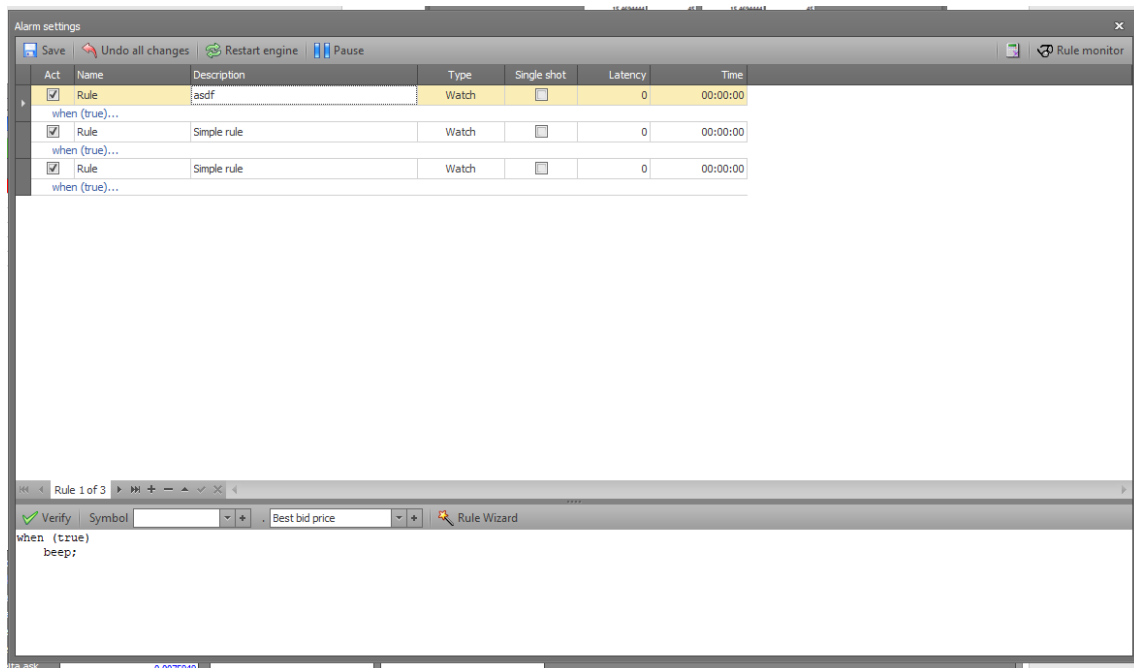
Pot. Open pos: 22

Market	Trading status	Und	Symbol Cod	Mk. Volume	Last	Open position	Tr Buy #	Tr Buy Qty	Tr Avg Buy	Tr % Buy	Tr Sell #	Tr Sell Qty	Tr Avg Sell
M5	Open	I35	FIBX11	22	7,705	8	11	21	7,704.5714	95.45%	4	13	7,704.3077
M5	Closed	A3M	FA3TM3P	236	2.07	0	0	0	0.000000	0%	0	0	0.000000
IM	Open	COUPONS	STRIPS-30-...	45	15.405	0	14	45	15.4694440	100%	14	45	15.4694440
IM	Open	PRINCIPALS	IBRD-07-Ju...	79	15.390	0	3	79	15.3975950	100%	3	79	15.3975950

Open posi...

Order 1 of 4





- Contador Ejecuciones, Gráficos
- Desktops
- Care order
- Funcionalidades típicas del ticker de Trades:
  - Sumarizaciones
  - Precios Medios
  - Etc.