C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = GBPUSD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 03:55:04 16.0 1.31541 27.0 1.314895

pipDiff totalSpread

timestamp

2017-10-20 03:55:04 -52.0 43.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 10:00:13 20.0 1.31136 27.0 1.311865

pipDiff totalSpread

timestamp

2017-10-20 10:00:13 50.0 47.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 14:45:23 11.0 1.311375 27.0 1.311755

pipDiff totalSpread

timestamp

2017-10-20 14:45:23 38.0 38.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 15:10:44 13.0 1.313265 27.0 1.313695

2017-10-20 15:10:45 13.0 1.313245 27.0 1.313695

2017-10-20 15:10:46 16.0 1.313260 27.0 1.313695

2017-10-20 15:10:47 14.0 1.313270 27.0 1.313695

2017-10-20 15:10:48 14.0 1.313270 27.0 1.313695

2017-10-20 15:10:49 15.0 1.313225 27.0 1.313695

2017-10-20 15:10:50 15.0 1.313175 27.0 1.313695

2017-10-20 15:10:51 16.0 1.313210 27.0 1.313695

2017-10-20 15:10:52 16.0 1.313210 27.0 1.313695

2017-10-20 15:10:53 17.0 1.313175 27.0 1.313695

2017-10-20 15:10:54 13.0 1.313235 27.0 1.313695

2017-10-20 15:10:55 14.0 1.313250 27.0 1.313695

pipDiff totalSpread

timestamp

2017-10-20 15:10:44 43.0 40.0

2017-10-20 15:10:45 45.0 40.0

2017-10-20 15:10:46 43.0 43.0

2017-10-20 15:10:47 43.0 41.0

2017-10-20 15:10:48 43.0 41.0

2017-10-20 15:10:49 47.0 42.0

2017-10-20 15:10:50 52.0 42.0

2017-10-20 15:10:51 49.0 43.0

2017-10-20 15:10:52 49.0 43.0

2017-10-20 15:10:53 52.0 44.0

2017-10-20 15:10:54 46.0 40.0

2017-10-20 15:10:55 45.0 41.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 16:25:41 14.0 1.313140 27.0 1.312735

2017-10-20 16:25:42 15.0 1.313305 27.0 1.312735

2017-10-20 16:25:43 14.0 1.313270 27.0 1.312735

2017-10-20 16:25:44 15.0 1.313275 27.0 1.312735

2017-10-20 16:25:45 14.0 1.313250 27.0 1.312735

2017-10-20 16:25:46 15.0 1.313335 27.0 1.312735

2017-10-20 16:25:47 12.0 1.313300 27.0 1.312735

2017-10-20 16:25:48 14.0 1.313280 27.0 1.312735

2017-10-20 16:25:49 14.0 1.313270 27.0 1.312735

2017-10-20 16:25:50 15.0 1.313255 27.0 1.312735

2017-10-20 16:25:51 13.0 1.313245 27.0 1.312735

2017-10-20 16:25:52 14.0 1.313250 27.0 1.312735

2017-10-20 16:25:53 11.0 1.313135 27.0 1.312735

2017-10-20 16:25:54 12.0 1.313140 27.0 1.312735

2017-10-20 16:25:55 13.0 1.313145 27.0 1.312735

2017-10-20 16:25:56 13.0 1.313145 27.0 1.312735

2017-10-20 16:26:07 14.0 1.313150 27.0 1.312735

2017-10-20 16:26:08 14.0 1.313140 27.0 1.312735

2017-10-20 16:26:14 14.0 1.313160 27.0 1.312735

2017-10-20 16:26:16 14.0 1.313160 27.0 1.312735

2017-10-20 16:26:18 14.0 1.313160 27.0 1.312735

2017-10-20 16:26:20 14.0 1.313160 27.0 1.312735

2017-10-20 16:26:21 14.0 1.313160 27.0 1.312735

pipDiff totalSpread

timestamp

2017-10-20 16:25:41 -41.0 41.0

2017-10-20 16:25:42 -57.0 42.0

2017-10-20 16:25:43 -53.0 41.0

2017-10-20 16:25:44 -54.0 42.0

2017-10-20 16:25:45 -52.0 41.0

2017-10-20 16:25:46 -60.0 42.0

2017-10-20 16:25:47 -56.0 39.0

2017-10-20 16:25:48 -55.0 41.0

2017-10-20 16:25:49 -53.0 41.0

2017-10-20 16:25:50 -52.0 42.0

2017-10-20 16:25:51 -51.0 40.0

2017-10-20 16:25:52 -52.0 41.0

2017-10-20 16:25:53 -40.0 38.0

2017-10-20 16:25:54 -40.0 39.0

2017-10-20 16:25:55 -41.0 40.0

2017-10-20 16:25:56 -41.0 40.0

2017-10-20 16:26:07 -42.0 41.0

2017-10-20 16:26:08 -41.0 41.0

2017-10-20 16:26:14 -42.0 41.0

2017-10-20 16:26:16 -42.0 41.0

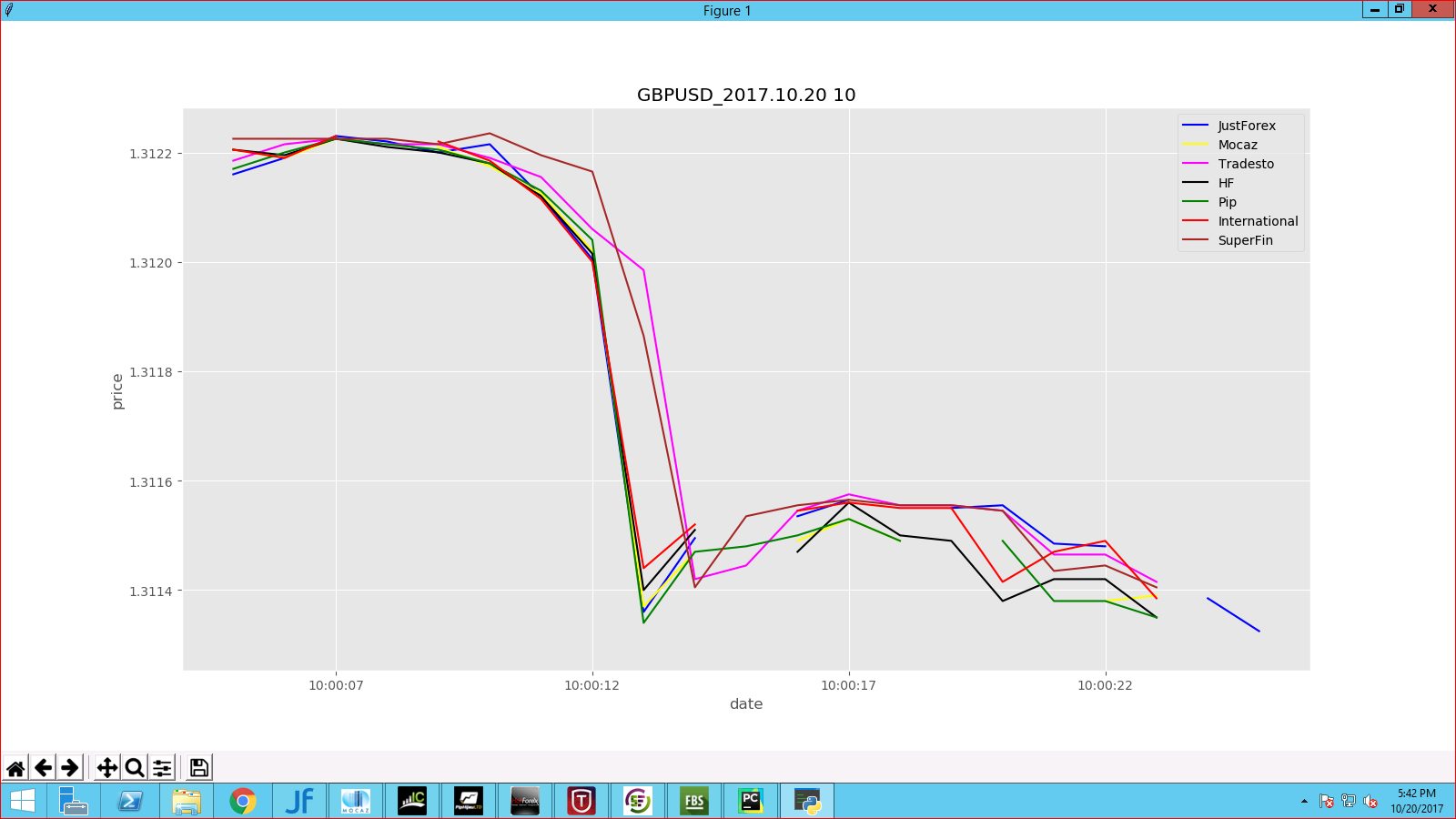
2017-10-20 16:26:18 -42.0 41.0

2017-10-20 16:26:20 -42.0 41.0

2017-10-20 16:26:21 -42.0 41.0

Process finished with exit code 0





C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = USDJPY

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 00:04:48 15.0 112.4995 24.0 112.540

2017-10-20 00:36:29 16.0 112.5980 24.0 112.638

2017-10-20 00:37:44 15.0 112.5795 24.0 112.620

2017-10-20 00:40:28 14.0 112.5790 24.0 112.620

2017-10-20 00:55:07 17.0 112.5715 24.0 112.612

2017-10-20 00:55:08 17.0 112.5705 24.0 112.613

pipDiff totalSpread

timestamp

2017-10-20 00:04:48 40.0 39.0

2017-10-20 00:36:29 40.0 40.0

2017-10-20 00:37:44 41.0 39.0

2017-10-20 00:40:28 41.0 38.0

2017-10-20 00:55:07 41.0 41.0

2017-10-20 00:55:08 42.0 41.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 01:57:41 15.0 112.5645 24.0 112.607

pipDiff totalSpread

timestamp

2017-10-20 01:57:41 42.0 39.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 03:43:56 14.0 112.6400 24.0 112.681

2017-10-20 03:55:04 15.0 112.5635 24.0 112.651

2017-10-20 03:56:47 14.0 112.4980 24.0 112.560

2017-10-20 03:56:53 16.0 112.4740 24.0 112.518

2017-10-20 03:57:12 14.0 112.4490 24.0 112.501

2017-10-20 03:57:14 15.0 112.4305 24.0 112.471

2017-10-20 03:57:22 17.0 112.4435 24.0 112.484

2017-10-20 03:57:25 18.0 112.4210 24.0 112.467

pipDiff totalSpread

timestamp

2017-10-20 03:43:56 41.0 38.0

2017-10-20 03:55:04 87.0 39.0

2017-10-20 03:56:47 62.0 38.0

2017-10-20 03:56:53 44.0 40.0

2017-10-20 03:57:12 52.0 38.0

2017-10-20 03:57:14 41.0 39.0

2017-10-20 03:57:22 41.0 41.0

2017-10-20 03:57:25 46.0 42.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 04:00:08 17.0 112.5695 24.0 112.616

2017-10-20 04:00:09 18.0 112.5720 24.0 112.616

2017-10-20 04:00:10 16.0 112.5650 24.0 112.616

2017-10-20 04:00:46 18.0 112.5750 24.0 112.622

2017-10-20 04:01:11 14.0 112.6030 24.0 112.646

2017-10-20 04:14:23 16.0 112.4800 24.0 112.526

2017-10-20 04:16:08 16.0 112.4800 24.0 112.521

2017-10-20 04:16:09 16.0 112.4800 24.0 112.521

2017-10-20 04:16:10 16.0 112.4800 24.0 112.521

2017-10-20 04:16:11 16.0 112.4800 24.0 112.521

2017-10-20 04:16:12 16.0 112.4800 24.0 112.521

2017-10-20 04:16:13 16.0 112.4800 24.0 112.521

2017-10-20 04:16:19 16.0 112.4800 24.0 112.521

2017-10-20 04:18:54 18.0 112.4530 24.0 112.497

2017-10-20 04:20:01 18.0 112.4510 24.0 112.495

pipDiff totalSpread

timestamp

2017-10-20 04:00:08 46.0 41.0

2017-10-20 04:00:09 44.0 42.0

2017-10-20 04:00:10 51.0 40.0

2017-10-20 04:00:46 47.0 42.0

2017-10-20 04:01:11 43.0 38.0

2017-10-20 04:14:23 46.0 40.0

2017-10-20 04:16:08 41.0 40.0

2017-10-20 04:16:09 41.0 40.0

2017-10-20 04:16:10 41.0 40.0

2017-10-20 04:16:11 41.0 40.0

2017-10-20 04:16:12 41.0 40.0

2017-10-20 04:16:13 41.0 40.0

2017-10-20 04:16:19 41.0 40.0

2017-10-20 04:18:54 44.0 42.0

2017-10-20 04:20:01 44.0 42.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 06:12:27 19.0 112.5205 24.0 112.564

2017-10-20 06:47:02 17.0 112.6045 24.0 112.648

2017-10-20 06:47:03 20.0 112.6030 24.0 112.648

2017-10-20 06:47:04 21.0 112.6025 24.0 112.648

2017-10-20 06:47:05 21.0 112.6025 24.0 112.648

2017-10-20 06:47:06 20.0 112.6020 24.0 112.648

2017-10-20 06:47:07 20.0 112.5970 24.0 112.648

2017-10-20 06:47:08 20.0 112.5970 24.0 112.648

2017-10-20 06:47:09 20.0 112.5970 24.0 112.648

2017-10-20 06:47:10 20.0 112.5970 24.0 112.648

2017-10-20 06:47:11 19.0 112.5905 24.0 112.648

2017-10-20 06:47:12 19.0 112.5905 24.0 112.648

2017-10-20 06:47:13 21.0 112.5895 24.0 112.648

2017-10-20 06:47:14 20.0 112.5900 24.0 112.648

2017-10-20 06:47:15 20.0 112.5900 24.0 112.648

2017-10-20 06:47:16 20.0 112.5900 24.0 112.648

2017-10-20 06:47:17 20.0 112.5900 24.0 112.648

2017-10-20 06:47:18 19.0 112.5905 24.0 112.648

2017-10-20 06:47:19 20.0 112.5900 24.0 112.648

2017-10-20 06:47:20 20.0 112.5900 24.0 112.648

2017-10-20 06:47:21 21.0 112.5915 24.0 112.648

2017-10-20 06:47:22 20.0 112.5920 24.0 112.648

2017-10-20 06:47:23 20.0 112.5920 24.0 112.648

2017-10-20 06:47:25 20.0 112.5930 24.0 112.648

2017-10-20 06:47:26 20.0 112.5930 24.0 112.648

2017-10-20 06:47:27 20.0 112.5930 24.0 112.648

2017-10-20 06:47:28 20.0 112.5930 24.0 112.648

2017-10-20 06:47:31 21.0 112.5925 24.0 112.648

2017-10-20 06:47:32 21.0 112.5925 24.0 112.648

2017-10-20 06:47:33 21.0 112.5925 24.0 112.644

pipDiff totalSpread

timestamp

2017-10-20 06:12:27 44.0 43.0

2017-10-20 06:47:02 43.0 41.0

2017-10-20 06:47:03 45.0 44.0

2017-10-20 06:47:04 45.0 45.0

2017-10-20 06:47:05 45.0 45.0

2017-10-20 06:47:06 46.0 44.0

2017-10-20 06:47:07 51.0 44.0

2017-10-20 06:47:08 51.0 44.0

2017-10-20 06:47:09 51.0 44.0

2017-10-20 06:47:10 51.0 44.0

2017-10-20 06:47:11 58.0 43.0

2017-10-20 06:47:12 58.0 43.0

2017-10-20 06:47:13 59.0 45.0

2017-10-20 06:47:14 58.0 44.0

2017-10-20 06:47:15 58.0 44.0

2017-10-20 06:47:16 58.0 44.0

2017-10-20 06:47:17 58.0 44.0

2017-10-20 06:47:18 58.0 43.0

2017-10-20 06:47:19 58.0 44.0

2017-10-20 06:47:20 58.0 44.0

2017-10-20 06:47:21 56.0 45.0

2017-10-20 06:47:22 56.0 44.0

2017-10-20 06:47:23 56.0 44.0

2017-10-20 06:47:25 55.0 44.0

2017-10-20 06:47:26 55.0 44.0

2017-10-20 06:47:27 55.0 44.0

2017-10-20 06:47:28 55.0 44.0

2017-10-20 06:47:31 55.0 45.0

2017-10-20 06:47:32 55.0 45.0

2017-10-20 06:47:33 52.0 45.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 08:34:31 16.0 112.670 24.0 112.710

2017-10-20 08:41:53 16.0 112.655 24.0 112.696

pipDiff totalSpread

timestamp

2017-10-20 08:34:31 40.0 40.0

2017-10-20 08:41:53 41.0 40.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 09:03:09 15.0 112.6925 24.0 112.733

2017-10-20 09:43:00 18.0 113.0120 24.0 113.054

2017-10-20 09:43:01 17.0 113.0105 24.0 113.054

2017-10-20 09:43:04 20.0 113.0090 24.0 113.054

2017-10-20 09:43:05 19.0 113.0075 24.0 113.054

2017-10-20 09:43:06 19.0 113.0055 24.0 113.054

2017-10-20 09:43:07 19.0 113.0025 24.0 113.054

2017-10-20 09:43:08 19.0 113.0025 24.0 113.054

2017-10-20 09:43:09 19.0 113.0025 24.0 113.054

2017-10-20 09:43:10 19.0 113.0025 24.0 113.054

2017-10-20 09:43:11 19.0 113.0025 24.0 113.054

2017-10-20 09:43:12 19.0 113.0025 24.0 113.054

2017-10-20 09:43:13 19.0 113.0085 24.0 113.054

2017-10-20 09:43:14 18.0 113.0090 24.0 113.054

2017-10-20 09:43:15 19.0 113.0085 24.0 113.054

2017-10-20 09:43:16 19.0 113.0095 24.0 113.054

2017-10-20 09:43:18 19.0 113.0075 24.0 113.054

2017-10-20 09:43:19 18.0 113.0080 24.0 113.054

2017-10-20 09:43:20 18.0 113.0080 24.0 113.054

2017-10-20 09:43:21 19.0 113.0075 24.0 113.054

2017-10-20 09:43:22 18.0 113.0080 24.0 113.054

2017-10-20 09:43:23 18.0 113.0080 24.0 113.054

2017-10-20 09:43:24 18.0 113.0080 24.0 113.054

2017-10-20 09:43:25 18.0 113.0080 24.0 113.054

2017-10-20 09:43:26 19.0 113.0075 24.0 113.054

pipDiff totalSpread

timestamp

2017-10-20 09:03:09 41.0 39.0

2017-10-20 09:43:00 42.0 42.0

2017-10-20 09:43:01 43.0 41.0

2017-10-20 09:43:04 45.0 44.0

2017-10-20 09:43:05 47.0 43.0

2017-10-20 09:43:06 48.0 43.0

2017-10-20 09:43:07 52.0 43.0

2017-10-20 09:43:08 52.0 43.0

2017-10-20 09:43:09 52.0 43.0

2017-10-20 09:43:10 52.0 43.0

2017-10-20 09:43:11 52.0 43.0

2017-10-20 09:43:12 52.0 43.0

2017-10-20 09:43:13 46.0 43.0

2017-10-20 09:43:14 45.0 42.0

2017-10-20 09:43:15 46.0 43.0

2017-10-20 09:43:16 44.0 43.0

2017-10-20 09:43:18 47.0 43.0

2017-10-20 09:43:19 46.0 42.0

2017-10-20 09:43:20 46.0 42.0

2017-10-20 09:43:21 47.0 43.0

2017-10-20 09:43:22 46.0 42.0

2017-10-20 09:43:23 46.0 42.0

2017-10-20 09:43:24 46.0 42.0

2017-10-20 09:43:25 46.0 42.0

2017-10-20 09:43:26 47.0 43.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 10:00:08 16.0 113.1730 24.0 113.213

2017-10-20 10:00:09 20.0 113.1740 24.0 113.218

2017-10-20 10:01:11 19.0 113.1745 24.0 113.217

2017-10-20 10:08:57 16.0 113.2490 24.0 113.289

2017-10-20 10:09:00 16.0 113.2490 24.0 113.297

2017-10-20 10:09:01 19.0 113.2445 24.0 113.299

2017-10-20 10:09:02 18.0 113.2440 24.0 113.295

2017-10-20 10:09:03 18.0 113.2440 24.0 113.297

2017-10-20 10:09:04 19.0 113.2435 24.0 113.292

2017-10-20 10:30:19 17.0 113.1735 24.0 113.215

2017-10-20 10:58:18 15.0 113.2085 24.0 113.249

pipDiff totalSpread

timestamp

2017-10-20 10:00:08 40.0 40.0

2017-10-20 10:00:09 44.0 44.0

2017-10-20 10:01:11 43.0 43.0

2017-10-20 10:08:57 40.0 40.0

2017-10-20 10:09:00 48.0 40.0

2017-10-20 10:09:01 55.0 43.0

2017-10-20 10:09:02 51.0 42.0

2017-10-20 10:09:03 53.0 42.0

2017-10-20 10:09:04 49.0 43.0

2017-10-20 10:30:19 41.0 41.0

2017-10-20 10:58:18 40.0 39.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 11:20:33 20.0 113.181 24.0 113.226

pipDiff totalSpread

timestamp

2017-10-20 11:20:33 45.0 44.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 15:00:02 17.0 113.1585 24.0 113.202

2017-10-20 15:08:39 16.0 113.2190 24.0 113.261

2017-10-20 15:29:35 18.0 113.2810 24.0 113.323

pipDiff totalSpread

timestamp

2017-10-20 15:00:02 43.0 41.0

2017-10-20 15:08:39 42.0 40.0

2017-10-20 15:29:35 42.0 42.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 16:00:53 17.0 113.3185 24.0 113.360

2017-10-20 16:00:54 18.0 113.3180 24.0 113.360

2017-10-20 16:00:55 17.0 113.3185 24.0 113.360

2017-10-20 16:00:56 17.0 113.3185 24.0 113.360

2017-10-20 16:00:57 17.0 113.3185 24.0 113.360

2017-10-20 16:01:14 17.0 113.3255 24.0 113.367

2017-10-20 16:37:55 14.0 113.3800 24.0 113.420

pipDiff totalSpread

timestamp

2017-10-20 16:00:53 42.0 41.0

2017-10-20 16:00:54 42.0 42.0

2017-10-20 16:00:55 42.0 41.0

2017-10-20 16:00:56 42.0 41.0

2017-10-20 16:00:57 42.0 41.0

2017-10-20 16:01:14 41.0 41.0

2017-10-20 16:37:55 40.0 38.0

Process finished with exit code 0

C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = EURUSD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 :55:04 9.0 1.183875 20.0 1.18317

2017-10-20 03:55:05 11.0 1.184025 20.0 1.18355

2017-10-20 03:57:21 9.0 1.184105 20.0 1.18445

pipDiff totalSpread

timestamp

2017-10-20 03:55:04 -70.0 29.0

2017-10-20 03:55:05 -48.0 31.0

2017-10-20 03:57:21 34.0 29.0

Process finished with exit code 0

C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = USDCAD

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 00:05:01 20.0 1.248190 28.0 1.24869

2017-10-20 00:05:02 19.0 1.248185 28.0 1.24865

2017-10-20 00:16:03 19.0 1.248085 28.0 1.24862

2017-10-20 00:16:15 20.0 1.248000 28.0 1.24848

2017-10-20 00:16:18 20.0 1.247930 28.0 1.24844

2017-10-20 00:16:19 19.0 1.247855 28.0 1.24833

2017-10-20 00:23:55 18.0 1.247630 28.0 1.24810

2017-10-20 00:23:56 18.0 1.247630 28.0 1.24810

2017-10-20 00:23:57 18.0 1.247630 28.0 1.24810

2017-10-20 00:23:58 18.0 1.247630 28.0 1.24810

2017-10-20 00:23:59 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:00 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:01 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:02 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:03 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:04 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:05 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:06 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:07 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:08 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:09 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:10 18.0 1.247630 28.0 1.24810

2017-10-20 00:24:11 19.0 1.247625 28.0 1.24810

2017-10-20 00:24:14 18.0 1.247630 28.0 1.24809

2017-10-20 00:24:15 18.0 1.247630 28.0 1.24809

2017-10-20 00:24:16 19.0 1.247545 28.0 1.24803

2017-10-20 00:24:17 18.0 1.247560 28.0 1.24803

2017-10-20 00:24:46 18.0 1.247480 28.0 1.24796

2017-10-20 00:24:47 18.0 1.247480 28.0 1.24794

2017-10-20 00:24:48 18.0 1.247480 28.0 1.24794

2017-10-20 00:24:49 18.0 1.247480 28.0 1.24794

2017-10-20 00:24:50 18.0 1.247480 28.0 1.24794

2017-10-20 00:28:23 22.0 1.247810 28.0 1.24831

2017-10-20 00:30:52 22.0 1.247700 28.0 1.24820

2017-10-20 00:33:27 23.0 1.247625 28.0 1.24814

2017-10-20 00:50:10 20.0 1.247410 28.0 1.24789

2017-10-20 00:54:33 23.0 1.247525 28.0 1.24804

2017-10-20 00:54:57 23.0 1.247505 28.0 1.24804

2017-10-20 00:54:58 22.0 1.247500 28.0 1.24804

2017-10-20 00:54:59 23.0 1.247505 28.0 1.24804

2017-10-20 00:55:00 22.0 1.247520 28.0 1.24804

2017-10-20 00:55:01 21.0 1.247545 28.0 1.24804

2017-10-20 00:55:02 21.0 1.247545 28.0 1.24804

pipDiff totalSpread

timestamp

2017-10-20 00:05:01 50.0 48.0

2017-10-20 00:05:02 47.0 47.0

2017-10-20 00:16:03 54.0 47.0

2017-10-20 00:16:15 48.0 48.0

2017-10-20 00:16:18 51.0 48.0

2017-10-20 00:16:19 48.0 47.0

2017-10-20 00:23:55 47.0 46.0

2017-10-20 00:23:56 47.0 46.0

2017-10-20 00:23:57 47.0 46.0

2017-10-20 00:23:58 47.0 46.0

2017-10-20 00:23:59 47.0 46.0

2017-10-20 00:24:00 47.0 46.0

2017-10-20 00:24:01 47.0 46.0

2017-10-20 00:24:02 47.0 46.0

2017-10-20 00:24:03 47.0 46.0

2017-10-20 00:24:04 47.0 46.0

2017-10-20 00:24:05 47.0 46.0

2017-10-20 00:24:06 47.0 46.0

2017-10-20 00:24:07 47.0 46.0

2017-10-20 00:24:08 47.0 46.0

2017-10-20 00:24:09 47.0 46.0

2017-10-20 00:24:10 47.0 46.0

2017-10-20 00:24:11 47.0 47.0

2017-10-20 00:24:14 46.0 46.0

2017-10-20 00:24:15 46.0 46.0

2017-10-20 00:24:16 49.0 47.0

2017-10-20 00:24:17 47.0 46.0

2017-10-20 00:24:46 48.0 46.0

2017-10-20 00:24:47 46.0 46.0

2017-10-20 00:24:48 46.0 46.0

2017-10-20 00:24:49 46.0 46.0

2017-10-20 00:24:50 46.0 46.0

2017-10-20 00:28:23 50.0 50.0

2017-10-20 00:30:52 50.0 50.0

2017-10-20 00:33:27 51.0 51.0

2017-10-20 00:50:10 48.0 48.0

2017-10-20 00:54:33 52.0 51.0

2017-10-20 00:54:57 53.0 51.0

2017-10-20 00:54:58 54.0 50.0

2017-10-20 00:54:59 53.0 51.0

2017-10-20 00:55:00 52.0 50.0

2017-10-20 00:55:01 50.0 49.0

2017-10-20 00:55:02 50.0 49.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 01:07:15 21.0 1.247365 28.0 1.24787

2017-10-20 01:11:04 19.0 1.247485 28.0 1.24796

2017-10-20 01:11:05 19.0 1.247485 28.0 1.24796

2017-10-20 01:11:20 20.0 1.247460 28.0 1.24794

pipDiff totalSpread

timestamp

2017-10-20 01:07:15 50.0 49.0

2017-10-20 01:11:04 48.0 47.0

2017-10-20 01:11:05 48.0 47.0

2017-10-20 01:11:20 48.0 48.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 02:35:43 22.0 1.248640 28.0 1.24914

2017-10-20 02:35:44 21.0 1.248605 28.0 1.24914

2017-10-20 02:35:45 21.0 1.248645 28.0 1.24914

pipDiff totalSpread

timestamp

2017-10-20 02:35:43 50.0 50.0

2017-10-20 02:35:44 54.0 49.0

2017-10-20 02:35:45 50.0 49.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 03:55:05 20.0 1.249210 28.0 1.24971

2017-10-20 03:57:06 21.0 1.248355 28.0 1.24885

2017-10-20 03:57:12 24.0 1.248130 28.0 1.24869

2017-10-20 03:57:18 22.0 1.247830 28.0 1.24836

2017-10-20 03:58:22 19.0 1.248095 28.0 1.24863

pipDiff totalSpread

timestamp

2017-10-20 03:55:05 50.0 48.0

2017-10-20 03:57:06 49.0 49.0

2017-10-20 03:57:12 56.0 52.0

2017-10-20 03:57:18 53.0 50.0

2017-10-20 03:58:22 53.0 47.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 04:02:15 18.0 1.247940 28.0 1.24842

2017-10-20 04:18:50 24.0 1.246820 28.0 1.24749

2017-10-20 04:28:00 19.0 1.247525 28.0 1.24803

2017-10-20 04:28:01 19.0 1.247525 28.0 1.24801

2017-10-20 04:28:02 19.0 1.247535 28.0 1.24801

2017-10-20 04:49:06 22.0 1.248270 28.0 1.24877

2017-10-20 04:54:16 26.0 1.247880 28.0 1.24846

pipDiff totalSpread

timestamp

2017-10-20 04:02:15 48.0 46.0

2017-10-20 04:18:50 67.0 52.0

2017-10-20 04:28:00 50.0 47.0

2017-10-20 04:28:01 49.0 47.0

2017-10-20 04:28:02 48.0 47.0

2017-10-20 04:49:06 50.0 50.0

2017-10-20 04:54:16 58.0 54.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 05:27:15 34.0 1.248240 28.0 1.24897

2017-10-20 05:27:19 35.0 1.247865 28.0 1.24869

2017-10-20 05:33:03 34.0 1.248550 28.0 1.24919

pipDiff totalSpread

timestamp

2017-10-20 05:27:15 73.0 62.0

2017-10-20 05:27:19 82.0 63.0

2017-10-20 05:33:03 64.0 62.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 10:23:38 26.0 1.25047 28.0 1.25102

pipDiff totalSpread

timestamp

2017-10-20 10:23:38 55.0 54.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 11:21:47 21.0 1.251555 28.0 1.25208

2017-10-20 11:49:35 21.0 1.251135 28.0 1.25168

2017-10-20 11:49:36 25.0 1.251095 28.0 1.25168

2017-10-20 11:49:37 25.0 1.251095 28.0 1.25166

pipDiff totalSpread

timestamp

2017-10-20 11:21:47 53.0 49.0

2017-10-20 11:49:35 55.0 49.0

2017-10-20 11:49:36 58.0 53.0

2017-10-20 11:49:37 56.0 53.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

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2017-10-20 12:26:27 18.0 1.251210 28.0 1.25168

2017-10-20 12:26:28 18.0 1.251210 28.0 1.25168

2017-10-20 12:26:29 18.0 1.251210 28.0 1.25168

2017-10-20 12:26:30 18.0 1.251210 28.0 1.25168

2017-10-20 12:26:31 18.0 1.251210 28.0 1.25168

2017-10-20 12:26:32 18.0 1.251190 28.0 1.25166

2017-10-20 12:26:36 19.0 1.251155 28.0 1.25163

2017-10-20 12:27:12 19.0 1.250925 28.0 1.25143

2017-10-20 12:27:14 20.0 1.250920 28.0 1.25140

2017-10-20 12:27:16 20.0 1.250920 28.0 1.25140

2017-10-20 12:27:18 20.0 1.250920 28.0 1.25140

2017-10-20 12:27:20 20.0 1.250920 28.0 1.25140

pipDiff totalSpread

timestamp

2017-10-20 12:26:22 47.0 46.0

2017-10-20 12:26:26 50.0 46.0

2017-10-20 12:26:27 47.0 46.0

2017-10-20 12:26:28 47.0 46.0

2017-10-20 12:26:29 47.0 46.0

2017-10-20 12:26:30 47.0 46.0

2017-10-20 12:26:31 47.0 46.0

2017-10-20 12:26:32 47.0 46.0

2017-10-20 12:26:36 48.0 47.0

2017-10-20 12:27:12 50.0 47.0

2017-10-20 12:27:14 48.0 48.0

2017-10-20 12:27:16 48.0 48.0

2017-10-20 12:27:18 48.0 48.0

2017-10-20 12:27:20 48.0 48.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 14:14:54 18.0 1.251850 28.0 1.25231

2017-10-20 14:22:51 23.0 1.251225 28.0 1.25174

2017-10-20 14:28:18 18.0 1.251000 28.0 1.25154

pipDiff totalSpread

timestamp

2017-10-20 14:14:54 46.0 46.0

2017-10-20 14:22:51 52.0 51.0

2017-10-20 14:28:18 54.0 46.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 15:00:01 21.0 1.250125 28.0 1.25062

2017-10-20 15:00:17 19.0 1.249985 28.0 1.25047

2017-10-20 15:03:58 20.0 1.250070 28.0 1.25066

2017-10-20 15:25:20 21.0 1.251005 28.0 1.25149

2017-10-20 15:36:12 20.0 1.251240 28.0 1.25173

2017-10-20 15:36:13 21.0 1.251235 28.0 1.25173

2017-10-20 15:36:14 21.0 1.251235 28.0 1.25172

2017-10-20 15:53:34 19.0 1.250705 28.0 1.25117

pipDiff totalSpread

timestamp

2017-10-20 15:00:01 49.0 49.0

2017-10-20 15:00:17 49.0 47.0

2017-10-20 15:03:58 59.0 48.0

2017-10-20 15:25:20 49.0 49.0

2017-10-20 15:36:12 49.0 48.0

2017-10-20 15:36:13 50.0 49.0

2017-10-20 15:36:14 49.0 49.0

2017-10-20 15:53:34 47.0 47.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 16:47:02 21.0 1.251315 28.0 1.25185

pipDiff totalSpread

timestamp

2017-10-20 16:47:02 54.0 49.0

Process finished with exit code 0

C:\Users\Administrator\AppData\Local\Programs\Python\Python36\python.exe "C:/Users/Administrator/Documents/monitor broker/(1) Analyze spike & arbitrage.py"

---------------------------------------------

Symbol = EURJPY

spike threshold (pip) = 30

---------------------------------------------

analyze arbitrage.......

---------------------------------------------

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 00:15:29 13.0 133.2615 30.0 133.218

2017-10-20 00:23:10 10.0 133.2880 30.0 133.247

2017-10-20 00:29:48 13.0 133.2775 30.0 133.234

2017-10-20 00:29:52 14.0 133.2780 30.0 133.234

pipDiff totalSpread

timestamp

2017-10-20 00:15:29 -43.0 43.0

2017-10-20 00:23:10 -41.0 40.0

2017-10-20 00:29:48 -44.0 43.0

2017-10-20 00:29:52 -44.0 44.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 02:52:44 12.0 133.288 30.0 133.245

pipDiff totalSpread

timestamp

2017-10-20 02:52:44 -43.0 42.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 03:57:15 16.0 133.1950 30.0 133.148

2017-10-20 03:57:34 13.0 133.2165 30.0 133.173

2017-10-20 03:57:35 11.0 133.2245 30.0 133.181

2017-10-20 03:59:34 15.0 133.2345 30.0 133.190

2017-10-20 03:59:48 11.0 133.2375 30.0 133.197

pipDiff totalSpread

timestamp

2017-10-20 03:57:15 -47.0 46.0

2017-10-20 03:57:34 -43.0 43.0

2017-10-20 03:57:35 -43.0 41.0

2017-10-20 03:59:34 -45.0 45.0

2017-10-20 03:59:48 -41.0 41.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 04:00:14 15.0 133.3285 30.0 133.266

2017-10-20 04:00:16 15.0 133.3335 30.0 133.288

2017-10-20 04:05:00 13.0 133.3225 30.0 133.261

2017-10-20 04:05:01 14.0 133.3230 30.0 133.269

2017-10-20 04:05:02 14.0 133.3270 30.0 133.275

2017-10-20 04:05:03 14.0 133.3290 30.0 133.280

2017-10-20 04:05:04 14.0 133.3280 30.0 133.280

2017-10-20 04:05:05 17.0 133.3345 30.0 133.280

2017-10-20 04:05:07 18.0 133.3490 30.0 133.294

2017-10-20 04:07:41 16.0 133.3340 30.0 133.286

2017-10-20 04:07:42 14.0 133.3370 30.0 133.293

2017-10-20 04:15:03 15.0 133.3155 30.0 133.264

2017-10-20 04:17:46 16.0 133.3450 30.0 133.295

2017-10-20 04:17:48 14.0 133.3690 30.0 133.318

pipDiff totalSpread

timestamp

2017-10-20 04:00:14 -62.0 45.0

2017-10-20 04:00:16 -46.0 45.0

2017-10-20 04:05:00 -61.0 43.0

2017-10-20 04:05:01 -54.0 44.0

2017-10-20 04:05:02 -52.0 44.0

2017-10-20 04:05:03 -49.0 44.0

2017-10-20 04:05:04 -48.0 44.0

2017-10-20 04:05:05 -55.0 47.0

2017-10-20 04:05:07 -55.0 48.0

2017-10-20 04:07:41 -48.0 46.0

2017-10-20 04:07:42 -44.0 44.0

2017-10-20 04:15:03 -51.0 45.0

2017-10-20 04:17:46 -50.0 46.0

2017-10-20 04:17:48 -51.0 44.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 05:00:01 22.0 133.3840 30.0 133.321

2017-10-20 05:00:02 22.0 133.3840 30.0 133.271

2017-10-20 05:00:03 22.0 133.3840 30.0 133.255

2017-10-20 05:00:04 22.0 133.3840 30.0 133.244

2017-10-20 05:00:05 22.0 133.3840 30.0 133.244

2017-10-20 05:00:06 22.0 133.3840 30.0 133.244

2017-10-20 05:00:07 22.0 133.3840 30.0 133.244

2017-10-20 05:00:08 22.0 133.3840 30.0 133.244

2017-10-20 05:00:09 22.0 133.3840 30.0 133.244

2017-10-20 05:00:10 22.0 133.3840 30.0 133.244

2017-10-20 05:00:11 22.0 133.3840 30.0 133.244

2017-10-20 05:00:12 22.0 133.3840 30.0 133.244

2017-10-20 05:00:13 22.0 133.3840 30.0 133.244

2017-10-20 05:00:14 22.0 133.3840 30.0 133.244

2017-10-20 05:00:15 22.0 133.3840 30.0 133.244

2017-10-20 05:00:16 22.0 133.3840 30.0 133.244

2017-10-20 05:00:17 22.0 133.3840 30.0 133.244

2017-10-20 05:00:18 22.0 133.3840 30.0 133.244

2017-10-20 05:00:19 22.0 133.3840 30.0 133.238

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2017-10-20 05:00:21 22.0 133.3840 30.0 133.238

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2017-10-20 05:00:23 22.0 133.3840 30.0 133.238

2017-10-20 05:00:24 22.0 133.3840 30.0 133.238

2017-10-20 05:00:25 22.0 133.3840 30.0 133.238

2017-10-20 05:00:26 22.0 133.3840 30.0 133.238

2017-10-20 05:00:27 22.0 133.3840 30.0 133.238

2017-10-20 05:00:28 22.0 133.3840 30.0 133.238

2017-10-20 05:00:29 22.0 133.3840 30.0 133.238

2017-10-20 05:00:30 22.0 133.3840 30.0 133.238

... ... ... ... ...

2017-10-20 05:01:13 41.0 133.3765 30.0 133.242

2017-10-20 05:01:14 41.0 133.3765 30.0 133.242

2017-10-20 05:01:15 41.0 133.3765 30.0 133.242

2017-10-20 05:01:16 41.0 133.3765 30.0 133.242

2017-10-20 05:01:17 41.0 133.3765 30.0 133.242

2017-10-20 05:01:18 41.0 133.3765 30.0 133.242

2017-10-20 05:01:19 41.0 133.3765 30.0 133.242

2017-10-20 05:01:20 41.0 133.3765 30.0 133.242

2017-10-20 05:01:21 41.0 133.3765 30.0 133.242

2017-10-20 05:01:22 41.0 133.3765 30.0 133.242

2017-10-20 05:01:23 41.0 133.3765 30.0 133.242

2017-10-20 05:01:24 41.0 133.3765 30.0 133.242

2017-10-20 05:01:25 41.0 133.3765 30.0 133.242

2017-10-20 05:01:26 41.0 133.3765 30.0 133.242

2017-10-20 05:01:27 41.0 133.3765 30.0 133.242

2017-10-20 05:01:28 41.0 133.3765 30.0 133.242

2017-10-20 05:01:29 41.0 133.3765 30.0 133.242

2017-10-20 05:01:30 41.0 133.3765 30.0 133.242

2017-10-20 05:01:31 41.0 133.3765 30.0 133.242

2017-10-20 05:01:33 41.0 133.3765 30.0 133.242

2017-10-20 05:01:34 41.0 133.3765 30.0 133.242

2017-10-20 05:01:35 41.0 133.3765 30.0 133.242

2017-10-20 05:08:15 17.0 133.4005 30.0 133.352

2017-10-20 05:09:09 15.0 133.3895 30.0 133.343

2017-10-20 05:16:29 11.0 133.3745 30.0 133.334

2017-10-20 05:16:30 11.0 133.3745 30.0 133.334

2017-10-20 05:16:31 11.0 133.3745 30.0 133.334

2017-10-20 05:16:32 11.0 133.3745 30.0 133.334

2017-10-20 05:16:33 11.0 133.3745 30.0 133.334

2017-10-20 05:16:34 11.0 133.3745 30.0 133.334

pipDiff totalSpread

timestamp

2017-10-20 05:00:01 -63.0 52.0

2017-10-20 05:00:02 -113.0 52.0

2017-10-20 05:00:03 -129.0 52.0

2017-10-20 05:00:04 -140.0 52.0

2017-10-20 05:00:05 -140.0 52.0

2017-10-20 05:00:06 -140.0 52.0

2017-10-20 05:00:07 -140.0 52.0

2017-10-20 05:00:08 -140.0 52.0

2017-10-20 05:00:09 -140.0 52.0

2017-10-20 05:00:10 -140.0 52.0

2017-10-20 05:00:11 -140.0 52.0

2017-10-20 05:00:12 -140.0 52.0

2017-10-20 05:00:13 -140.0 52.0

2017-10-20 05:00:14 -140.0 52.0

2017-10-20 05:00:15 -140.0 52.0

2017-10-20 05:00:16 -140.0 52.0

2017-10-20 05:00:17 -140.0 52.0

2017-10-20 05:00:18 -140.0 52.0

2017-10-20 05:00:19 -146.0 52.0

2017-10-20 05:00:20 -146.0 52.0

2017-10-20 05:00:21 -146.0 52.0

2017-10-20 05:00:22 -146.0 52.0

2017-10-20 05:00:23 -146.0 52.0

2017-10-20 05:00:24 -146.0 52.0

2017-10-20 05:00:25 -146.0 52.0

2017-10-20 05:00:26 -146.0 52.0

2017-10-20 05:00:27 -146.0 52.0

2017-10-20 05:00:28 -146.0 52.0

2017-10-20 05:00:29 -146.0 52.0

2017-10-20 05:00:30 -146.0 52.0

... ... ...

2017-10-20 05:01:13 -135.0 71.0

2017-10-20 05:01:14 -135.0 71.0

2017-10-20 05:01:15 -135.0 71.0

2017-10-20 05:01:16 -135.0 71.0

2017-10-20 05:01:17 -135.0 71.0

2017-10-20 05:01:18 -135.0 71.0

2017-10-20 05:01:19 -135.0 71.0

2017-10-20 05:01:20 -135.0 71.0

2017-10-20 05:01:21 -135.0 71.0

2017-10-20 05:01:22 -135.0 71.0

2017-10-20 05:01:23 -135.0 71.0

2017-10-20 05:01:24 -135.0 71.0

2017-10-20 05:01:25 -135.0 71.0

2017-10-20 05:01:26 -135.0 71.0

2017-10-20 05:01:27 -135.0 71.0

2017-10-20 05:01:28 -135.0 71.0

2017-10-20 05:01:29 -135.0 71.0

2017-10-20 05:01:30 -135.0 71.0

2017-10-20 05:01:31 -135.0 71.0

2017-10-20 05:01:33 -135.0 71.0

2017-10-20 05:01:34 -135.0 71.0

2017-10-20 05:01:35 -135.0 71.0

2017-10-20 05:08:15 -48.0 47.0

2017-10-20 05:09:09 -46.0 45.0

2017-10-20 05:16:29 -41.0 41.0

2017-10-20 05:16:30 -41.0 41.0

2017-10-20 05:16:31 -41.0 41.0

2017-10-20 05:16:32 -41.0 41.0

2017-10-20 05:16:33 -41.0 41.0

2017-10-20 05:16:34 -41.0 41.0

[102 rows x 6 columns]

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 07:26:03 12.0 133.415 30.0 133.373

pipDiff totalSpread

timestamp

2017-10-20 07:26:03 -42.0 42.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 08:02:31 14.0 133.4960 30.0 133.450

2017-10-20 08:02:32 14.0 133.4960 30.0 133.450

2017-10-20 08:02:33 14.0 133.4960 30.0 133.450

2017-10-20 08:02:34 14.0 133.4960 30.0 133.450

2017-10-20 08:02:35 14.0 133.4960 30.0 133.450

2017-10-20 08:02:36 14.0 133.4960 30.0 133.450

2017-10-20 08:02:37 14.0 133.4940 30.0 133.450

2017-10-20 08:02:47 12.0 133.4920 30.0 133.450

2017-10-20 08:02:48 12.0 133.4920 30.0 133.450

2017-10-20 08:09:52 11.0 133.4735 30.0 133.424

2017-10-20 08:53:27 10.0 133.5230 30.0 133.482

2017-10-20 08:53:31 12.0 133.5300 30.0 133.488

pipDiff totalSpread

timestamp

2017-10-20 08:02:31 -46.0 44.0

2017-10-20 08:02:32 -46.0 44.0

2017-10-20 08:02:33 -46.0 44.0

2017-10-20 08:02:34 -46.0 44.0

2017-10-20 08:02:35 -46.0 44.0

2017-10-20 08:02:36 -46.0 44.0

2017-10-20 08:02:37 -44.0 44.0

2017-10-20 08:02:47 -42.0 42.0

2017-10-20 08:02:48 -42.0 42.0

2017-10-20 08:09:52 -50.0 41.0

2017-10-20 08:53:27 -41.0 40.0

2017-10-20 08:53:31 -42.0 42.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 09:01:16 14.0 133.5900 30.0 133.545

2017-10-20 09:05:52 13.0 133.6055 30.0 133.562

2017-10-20 09:33:33 12.0 133.5850 30.0 133.540

2017-10-20 09:33:34 12.0 133.6030 30.0 133.559

2017-10-20 09:33:36 10.0 133.6130 30.0 133.572

2017-10-20 09:35:38 15.0 133.7005 30.0 133.655

2017-10-20 09:36:51 14.0 133.7410 30.0 133.696

2017-10-20 09:40:06 15.0 133.7715 30.0 133.723

2017-10-20 09:40:07 18.0 133.8040 30.0 133.754

2017-10-20 09:43:39 14.0 133.7320 30.0 133.687

2017-10-20 09:43:41 15.0 133.7455 30.0 133.687

2017-10-20 09:43:43 15.0 133.7555 30.0 133.687

2017-10-20 09:43:44 16.0 133.7590 30.0 133.687

2017-10-20 09:43:46 14.0 133.7600 30.0 133.687

2017-10-20 09:43:47 14.0 133.7610 30.0 133.687

2017-10-20 09:43:48 14.0 133.7610 30.0 133.688

2017-10-20 09:43:49 13.0 133.7615 30.0 133.679

2017-10-20 09:43:50 15.0 133.7595 30.0 133.684

2017-10-20 09:43:51 14.0 133.7600 30.0 133.686

2017-10-20 09:43:52 13.0 133.7535 30.0 133.692

2017-10-20 09:44:54 11.0 133.7805 30.0 133.739

pipDiff totalSpread

timestamp

2017-10-20 09:01:16 -45.0 44.0

2017-10-20 09:05:52 -43.0 43.0

2017-10-20 09:33:33 -45.0 42.0

2017-10-20 09:33:34 -44.0 42.0

2017-10-20 09:33:36 -41.0 40.0

2017-10-20 09:35:38 -46.0 45.0

2017-10-20 09:36:51 -45.0 44.0

2017-10-20 09:40:06 -48.0 45.0

2017-10-20 09:40:07 -50.0 48.0

2017-10-20 09:43:39 -45.0 44.0

2017-10-20 09:43:41 -58.0 45.0

2017-10-20 09:43:43 -68.0 45.0

2017-10-20 09:43:44 -72.0 46.0

2017-10-20 09:43:46 -73.0 44.0

2017-10-20 09:43:47 -74.0 44.0

2017-10-20 09:43:48 -73.0 44.0

2017-10-20 09:43:49 -83.0 43.0

2017-10-20 09:43:50 -76.0 45.0

2017-10-20 09:43:51 -74.0 44.0

2017-10-20 09:43:52 -61.0 43.0

2017-10-20 09:44:54 -42.0 41.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 10:05:25 10.0 133.7760 30.0 133.735

2017-10-20 10:05:48 14.0 133.7720 30.0 133.728

2017-10-20 10:05:49 12.0 133.7720 30.0 133.728

2017-10-20 10:06:09 10.0 133.7890 30.0 133.749

2017-10-20 10:08:15 13.0 133.8025 30.0 133.754

2017-10-20 10:08:16 13.0 133.8025 30.0 133.754

2017-10-20 10:08:17 13.0 133.8055 30.0 133.754

2017-10-20 10:08:18 13.0 133.8095 30.0 133.754

2017-10-20 10:08:19 15.0 133.8055 30.0 133.754

2017-10-20 10:08:20 16.0 133.8060 30.0 133.754

2017-10-20 10:08:21 15.0 133.8095 30.0 133.754

2017-10-20 10:08:22 14.0 133.8070 30.0 133.754

2017-10-20 10:08:23 16.0 133.8070 30.0 133.754

2017-10-20 10:08:24 14.0 133.8050 30.0 133.754

2017-10-20 10:08:25 13.0 133.8035 30.0 133.754

2017-10-20 10:08:26 14.0 133.8060 30.0 133.754

2017-10-20 10:08:27 15.0 133.8045 30.0 133.754

2017-10-20 10:08:29 16.0 133.8030 30.0 133.754

2017-10-20 10:08:30 14.0 133.8030 30.0 133.754

2017-10-20 10:08:31 13.0 133.7985 30.0 133.754

2017-10-20 10:08:35 13.0 133.8015 30.0 133.754

2017-10-20 10:08:36 15.0 133.7995 30.0 133.754

2017-10-20 10:08:37 14.0 133.8010 30.0 133.754

2017-10-20 10:08:38 12.0 133.8020 30.0 133.754

2017-10-20 10:08:39 13.0 133.8015 30.0 133.754

2017-10-20 10:08:40 12.0 133.7970 30.0 133.754

2017-10-20 10:08:41 12.0 133.7990 30.0 133.754

2017-10-20 10:08:42 12.0 133.8000 30.0 133.754

2017-10-20 10:08:43 10.0 133.8050 30.0 133.754

2017-10-20 10:08:44 12.0 133.8060 30.0 133.754

2017-10-20 10:08:45 15.0 133.8005 30.0 133.754

2017-10-20 10:08:46 14.0 133.8010 30.0 133.754

2017-10-20 10:08:48 14.0 133.7990 30.0 133.754

2017-10-20 10:08:52 16.0 133.8000 30.0 133.754

2017-10-20 10:08:53 13.0 133.8025 30.0 133.754

2017-10-20 10:08:54 14.0 133.8000 30.0 133.754

pipDiff totalSpread

timestamp

2017-10-20 10:05:25 -41.0 40.0

2017-10-20 10:05:48 -44.0 44.0

2017-10-20 10:05:49 -44.0 42.0

2017-10-20 10:06:09 -40.0 40.0

2017-10-20 10:08:15 -48.0 43.0

2017-10-20 10:08:16 -48.0 43.0

2017-10-20 10:08:17 -51.0 43.0

2017-10-20 10:08:18 -55.0 43.0

2017-10-20 10:08:19 -51.0 45.0

2017-10-20 10:08:20 -52.0 46.0

2017-10-20 10:08:21 -55.0 45.0

2017-10-20 10:08:22 -53.0 44.0

2017-10-20 10:08:23 -53.0 46.0

2017-10-20 10:08:24 -51.0 44.0

2017-10-20 10:08:25 -49.0 43.0

2017-10-20 10:08:26 -52.0 44.0

2017-10-20 10:08:27 -50.0 45.0

2017-10-20 10:08:29 -49.0 46.0

2017-10-20 10:08:30 -49.0 44.0

2017-10-20 10:08:31 -44.0 43.0

2017-10-20 10:08:35 -47.0 43.0

2017-10-20 10:08:36 -46.0 45.0

2017-10-20 10:08:37 -47.0 44.0

2017-10-20 10:08:38 -48.0 42.0

2017-10-20 10:08:39 -47.0 43.0

2017-10-20 10:08:40 -43.0 42.0

2017-10-20 10:08:41 -45.0 42.0

2017-10-20 10:08:42 -46.0 42.0

2017-10-20 10:08:43 -51.0 40.0

2017-10-20 10:08:44 -52.0 42.0

2017-10-20 10:08:45 -46.0 45.0

2017-10-20 10:08:46 -47.0 44.0

2017-10-20 10:08:48 -45.0 44.0

2017-10-20 10:08:52 -46.0 46.0

2017-10-20 10:08:53 -48.0 43.0

2017-10-20 10:08:54 -46.0 44.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 11:03:07 13.0 133.7115 30.0 133.669

2017-10-20 11:11:14 11.0 133.7525 30.0 133.711

2017-10-20 11:19:20 12.0 133.7520 30.0 133.710

2017-10-20 11:49:34 13.0 133.7115 30.0 133.669

2017-10-20 11:49:35 16.0 133.7150 30.0 133.669

2017-10-20 11:49:36 16.0 133.7150 30.0 133.669

2017-10-20 11:49:37 16.0 133.7150 30.0 133.669

pipDiff totalSpread

timestamp

2017-10-20 11:03:07 -43.0 43.0

2017-10-20 11:11:14 -41.0 41.0

2017-10-20 11:19:20 -42.0 42.0

2017-10-20 11:49:34 -43.0 43.0

2017-10-20 11:49:35 -46.0 46.0

2017-10-20 11:49:36 -46.0 46.0

2017-10-20 11:49:37 -46.0 46.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 12:53:30 10.0 133.788 30.0 133.746

pipDiff totalSpread

timestamp

2017-10-20 12:53:30 -42.0 40.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 13:35:57 13.0 133.6825 30.0 133.64

pipDiff totalSpread

timestamp

2017-10-20 13:35:57 -43.0 43.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 14:32:17 10.0 133.7930 30.0 133.749

2017-10-20 14:32:18 12.0 133.7920 30.0 133.750

2017-10-20 14:32:21 13.0 133.8025 30.0 133.760

2017-10-20 14:43:34 13.0 133.7795 30.0 133.735

2017-10-20 14:45:41 14.0 133.7620 30.0 133.717

2017-10-20 14:45:43 14.0 133.7620 30.0 133.712

2017-10-20 14:58:10 10.0 133.7200 30.0 133.678

2017-10-20 14:58:11 12.0 133.7300 30.0 133.688

2017-10-20 14:58:12 11.0 133.7285 30.0 133.688

2017-10-20 14:58:13 12.0 133.7300 30.0 133.688

2017-10-20 14:58:15 12.0 133.7330 30.0 133.691

pipDiff totalSpread

timestamp

2017-10-20 14:32:17 -44.0 40.0

2017-10-20 14:32:18 -42.0 42.0

2017-10-20 14:32:21 -43.0 43.0

2017-10-20 14:43:34 -44.0 43.0

2017-10-20 14:45:41 -45.0 44.0

2017-10-20 14:45:43 -50.0 44.0

2017-10-20 14:58:10 -42.0 40.0

2017-10-20 14:58:11 -42.0 42.0

2017-10-20 14:58:12 -41.0 41.0

2017-10-20 14:58:13 -42.0 42.0

2017-10-20 14:58:15 -42.0 42.0

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 15:01:56 11.0 133.7555 30.0 133.714

2017-10-20 15:03:58 14.0 133.8060 30.0 133.759

2017-10-20 15:07:20 14.0 133.8690 30.0 133.825

2017-10-20 15:12:34 11.0 133.8675 30.0 133.826

2017-10-20 15:12:35 11.0 133.8675 30.0 133.826

2017-10-20 15:12:36 11.0 133.8675 30.0 133.827

2017-10-20 15:24:02 11.0 133.6205 30.0 133.579

2017-10-20 15:24:05 10.0 133.6260 30.0 133.586

2017-10-20 15:25:11 11.0 133.6525 30.0 133.611

2017-10-20 15:30:07 10.0 133.6650 30.0 133.624

2017-10-20 15:30:16 13.0 133.6685 30.0 133.624

2017-10-20 15:30:17 15.0 133.6695 30.0 133.624

2017-10-20 15:30:18 15.0 133.6705 30.0 133.624

2017-10-20 15:30:19 15.0 133.6705 30.0 133.624

2017-10-20 15:30:20 13.0 133.6725 30.0 133.624

2017-10-20 15:30:21 14.0 133.6730 30.0 133.624

2017-10-20 15:30:22 15.0 133.6745 30.0 133.624

2017-10-20 15:30:23 14.0 133.6750 30.0 133.624

2017-10-20 15:30:24 14.0 133.6750 30.0 133.624

2017-10-20 15:30:25 13.0 133.6775 30.0 133.624

2017-10-20 15:30:26 13.0 133.6785 30.0 133.624

2017-10-20 15:30:27 14.0 133.6790 30.0 133.624

2017-10-20 15:30:28 13.0 133.6785 30.0 133.624

2017-10-20 15:30:29 14.0 133.6790 30.0 133.624

2017-10-20 15:30:30 14.0 133.6840 30.0 133.624

2017-10-20 15:30:31 13.0 133.6835 30.0 133.624

2017-10-20 15:30:32 15.0 133.6805 30.0 133.624

2017-10-20 15:30:33 14.0 133.6820 30.0 133.624

2017-10-20 15:30:34 13.0 133.6835 30.0 133.624

2017-10-20 15:30:35 13.0 133.6835 30.0 133.624

... ... ... ... ...

2017-10-20 15:31:28 13.0 133.6905 30.0 133.624

2017-10-20 15:31:29 12.0 133.6870 30.0 133.624

2017-10-20 15:31:30 12.0 133.6870 30.0 133.624

2017-10-20 15:31:31 12.0 133.6880 30.0 133.624

2017-10-20 15:31:32 12.0 133.6880 30.0 133.624

2017-10-20 15:31:33 14.0 133.6890 30.0 133.624

2017-10-20 15:31:34 13.0 133.6865 30.0 133.624

2017-10-20 15:31:35 13.0 133.6865 30.0 133.624

2017-10-20 15:33:33 13.0 133.6965 30.0 133.653

2017-10-20 15:35:49 12.0 133.6950 30.0 133.653

2017-10-20 15:35:53 12.0 133.6960 30.0 133.653

2017-10-20 15:35:54 10.0 133.6950 30.0 133.653

2017-10-20 15:35:55 12.0 133.6960 30.0 133.653

2017-10-20 15:35:56 13.0 133.6965 30.0 133.653

2017-10-20 15:36:02 12.0 133.6960 30.0 133.653

2017-10-20 15:36:03 11.0 133.6945 30.0 133.653

2017-10-20 15:36:04 10.0 133.6990 30.0 133.653

2017-10-20 15:36:05 12.0 133.7070 30.0 133.653

2017-10-20 15:36:06 11.0 133.7075 30.0 133.653

2017-10-20 15:36:07 12.0 133.7080 30.0 133.653

2017-10-20 15:36:08 11.0 133.7075 30.0 133.651

2017-10-20 15:36:09 11.0 133.7075 30.0 133.646

2017-10-20 15:36:10 11.0 133.7075 30.0 133.640

2017-10-20 15:36:11 11.0 133.7075 30.0 133.642

2017-10-20 15:36:12 12.0 133.7070 30.0 133.652

2017-10-20 15:36:13 11.0 133.7075 30.0 133.659

2017-10-20 15:36:14 10.0 133.7060 30.0 133.663

2017-10-20 15:36:15 12.0 133.7060 30.0 133.662

2017-10-20 15:56:08 12.0 133.7760 30.0 133.732

2017-10-20 15:59:46 11.0 133.8075 30.0 133.762

pipDiff totalSpread

timestamp

2017-10-20 15:01:56 -41.0 41.0

2017-10-20 15:03:58 -47.0 44.0

2017-10-20 15:07:20 -44.0 44.0

2017-10-20 15:12:34 -41.0 41.0

2017-10-20 15:12:35 -41.0 41.0

2017-10-20 15:12:36 -41.0 41.0

2017-10-20 15:24:02 -41.0 41.0

2017-10-20 15:24:05 -40.0 40.0

2017-10-20 15:25:11 -42.0 41.0

2017-10-20 15:30:07 -41.0 40.0

2017-10-20 15:30:16 -44.0 43.0

2017-10-20 15:30:17 -46.0 45.0

2017-10-20 15:30:18 -46.0 45.0

2017-10-20 15:30:19 -46.0 45.0

2017-10-20 15:30:20 -48.0 43.0

2017-10-20 15:30:21 -49.0 44.0

2017-10-20 15:30:22 -50.0 45.0

2017-10-20 15:30:23 -51.0 44.0

2017-10-20 15:30:24 -51.0 44.0

2017-10-20 15:30:25 -53.0 43.0

2017-10-20 15:30:26 -54.0 43.0

2017-10-20 15:30:27 -55.0 44.0

2017-10-20 15:30:28 -54.0 43.0

2017-10-20 15:30:29 -55.0 44.0

2017-10-20 15:30:30 -60.0 44.0

2017-10-20 15:30:31 -59.0 43.0

2017-10-20 15:30:32 -56.0 45.0

2017-10-20 15:30:33 -58.0 44.0

2017-10-20 15:30:34 -59.0 43.0

2017-10-20 15:30:35 -59.0 43.0

... ... ...

2017-10-20 15:31:28 -66.0 43.0

2017-10-20 15:31:29 -63.0 42.0

2017-10-20 15:31:30 -63.0 42.0

2017-10-20 15:31:31 -64.0 42.0

2017-10-20 15:31:32 -64.0 42.0

2017-10-20 15:31:33 -65.0 44.0

2017-10-20 15:31:34 -62.0 43.0

2017-10-20 15:31:35 -62.0 43.0

2017-10-20 15:33:33 -43.0 43.0

2017-10-20 15:35:49 -42.0 42.0

2017-10-20 15:35:53 -43.0 42.0

2017-10-20 15:35:54 -42.0 40.0

2017-10-20 15:35:55 -43.0 42.0

2017-10-20 15:35:56 -43.0 43.0

2017-10-20 15:36:02 -43.0 42.0

2017-10-20 15:36:03 -41.0 41.0

2017-10-20 15:36:04 -46.0 40.0

2017-10-20 15:36:05 -54.0 42.0

2017-10-20 15:36:06 -54.0 41.0

2017-10-20 15:36:07 -55.0 42.0

2017-10-20 15:36:08 -56.0 41.0

2017-10-20 15:36:09 -61.0 41.0

2017-10-20 15:36:10 -67.0 41.0

2017-10-20 15:36:11 -65.0 41.0

2017-10-20 15:36:12 -55.0 42.0

2017-10-20 15:36:13 -48.0 41.0

2017-10-20 15:36:14 -43.0 40.0

2017-10-20 15:36:15 -44.0 42.0

2017-10-20 15:56:08 -44.0 42.0

2017-10-20 15:59:46 -46.0 41.0

[112 rows x 6 columns]

JustForex\_spread JustForex SuperFin\_spread SuperFin \

timestamp

2017-10-20 16:01:02 12.0 133.8070 30.0 133.764

2017-10-20 16:01:03 12.0 133.8080 30.0 133.764

2017-10-20 16:01:04 13.0 133.8115 30.0 133.764

2017-10-20 16:01:05 13.0 133.8095 30.0 133.764

2017-10-20 16:01:06 13.0 133.8095 30.0 133.764

2017-10-20 16:01:07 13.0 133.8095 30.0 133.764

2017-10-20 16:01:08 14.0 133.8100 30.0 133.764

2017-10-20 16:01:09 12.0 133.8070 30.0 133.764

2017-10-20 16:01:16 15.0 133.7955 30.0 133.750

2017-10-20 16:06:14 11.0 133.8835 30.0 133.839

2017-10-20 16:09:48 10.0 133.9070 30.0 133.867

2017-10-20 16:18:55 13.0 133.8605 30.0 133.818

2017-10-20 16:24:53 12.0 133.8710 30.0 133.828

2017-10-20 16:50:45 12.0 133.8320 30.0 133.789

2017-10-20 16:58:38 11.0 133.7915 30.0 133.751

pipDiff totalSpread

timestamp

2017-10-20 16:01:02 -43.0 42.0

2017-10-20 16:01:03 -44.0 42.0

2017-10-20 16:01:04 -47.0 43.0

2017-10-20 16:01:05 -46.0 43.0

2017-10-20 16:01:06 -46.0 43.0

2017-10-20 16:01:07 -46.0 43.0

2017-10-20 16:01:08 -46.0 44.0

2017-10-20 16:01:09 -43.0 42.0

2017-10-20 16:01:16 -46.0 45.0

2017-10-20 16:06:14 -44.0 41.0

2017-10-20 16:09:48 -40.0 40.0

2017-10-20 16:18:55 -43.0 43.0

2017-10-20 16:24:53 -43.0 42.0

2017-10-20 16:50:45 -43.0 42.0

2017-10-20 16:58:38 -41.0 41.0

Process finished with exit code 0

