

# 下單大師 4.0 與 MultiCharts PT 測試報告

2019.2.22

下單大師版本：4.0 版 v4.0.B005 (64 位元)

MultiCharts 版本：9.0 中文專業版 (Build 11581) (64 位元)

輸出文字檔 DLL：採用下單大師、MR 下單機、QMark 策略計算器三者的版本

萬用 API 版本：下單大師 v4.0.B005 (64 位元)

報價：台指連續月(TFX1) 2K，實際接凱衛的行情報價進行測試

電腦環境：

Windows 版本

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Windows 10 企業版

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系統

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處理器: Intel(R) Core(TM) i5-4690 CPU @ 3.50GHz 3.50 GHz

已安裝記憶體 (RAM) 8.00 GB

系統類型: 64 位元作業系統，x64 型處理器

磁碟機

INTEL SSDSC28W240H6

OCZ-VERTEX460A

輸出文字檔 DLL：統一放在虛擬硬碟(RAMDisk)中測試。

指標與訊號：程式碼都一樣，都有開 IOG。

測試程式碼：[下單大師 MC 串接包.zip](#)

代號：

CT：圖表交易、PT：Portfolio Trader

OM：下單大師、MR：MR 下單機、QM：QMark 策略計算器

測試方式：

由於 MultiCharts 在不同圖表的執行時間有落差，加上訊號是依照由上到下的順序執行，因此採用單一圖表，訊號則用兩種不同順序的方式進行測試，以互相比較出哪一個訊號比較快。

以下是測試的結果：(只貼出具代表性的測試圖例，需更多數據者請自行驗證)

(1).輸出文字檔的 DLL 哪一家比較快：都一樣快，不相上下

放在第一位的就最快，偶爾會被第二位超越一次。

(下單大師放前面)      \*\_OrderMasterTXT      ("Z:\Current\_CT\_OM.txt")      on  
                          \*\_SignalCalculator      ("Z:\Current\_CT\_QM.txt")      on  
                          \*\_OutputByTick      ("Z:\Current\_CT\_MR.txt")      on

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/22 | 11:41:50.998 | 11:41:50.999 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:41:51.002 | 11:41:51.004 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:41:51.004 | 11:41:51.005 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:43:10.979 | 11:43:10.980 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:43:10.981 | 11:43:10.982 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:43:30.996 | 11:43:30.997 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:44:20.979 | 11:44:20.979 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:44:20.981 | 11:44:20.981 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:44:20.981 | 11:44:20.983 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:45:11.001 | 11:45:11.002 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:45:11.002 | 11:45:11.002 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:45:11.002 | 11:45:11.012 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:45:40.997 | 11:45:40.999 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:45:41.001 | 11:45:41.003 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:45:41.003 | 11:45:41.005 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:48:50.993 | 11:48:50.993 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:48:50.995 | 11:48:50.997 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:49:00.986 | 11:49:00.988 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:49:30.995 | 11:49:30.997 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:49:30.999 | 11:49:31.001 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:49:31.001 | 11:49:31.002 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:52:00.980 | 11:52:00.981 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:52:00.983 | 11:52:00.985 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:52:00.984 | 11:52:00.985 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |

\*\_OutputByTick ("Z:\Current\_CT\_MR.txt") on  
 \*\_SignalCalculator ("Z:\Current\_CT\_QM.txt") on  
 (MR 下單機放前面) \*\_OrderMasterTXT ("Z:\Current\_CT\_OM.txt") on

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/22 | 11:54:24.771 | 11:54:24.773 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:54:24.774 | 11:54:24.775 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:54:24.775 | 11:54:24.775 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:54:44.766 | 11:54:44.767 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:54:44.767 | 11:54:44.768 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:54:44.768 | 11:54:44.769 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:04.770 | 11:55:04.772 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:04.771 | 11:55:04.773 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:04.774 | 11:55:04.776 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:34.766 | 11:55:34.768 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:34.768 | 11:55:34.769 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:34.769 | 11:55:34.771 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:54.767 | 11:55:54.767 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:54.769 | 11:55:54.770 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:55:54.773 | 11:55:54.775 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:34.774 | 11:56:34.776 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:34.776 | 11:56:34.778 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:34.778 | 11:56:34.780 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:44.763 | 11:56:44.765 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:44.763 | 11:56:44.765 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:44.765 | 11:56:44.767 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:54.771 | 11:56:54.773 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:54.773 | 11:56:54.774 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:56:54.777 | 11:56:54.779 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:57:04.770 | 11:57:04.772 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:57:04.776 | 11:57:04.778 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:57:04.780 | 11:57:04.781 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |

(2).下單大師 2.5 和 4.0 版偵測文字檔誰比較快：**都一樣快，不相上下**

放在第一位的就最快，但差距都很小。要使用各自的 DLL 輸出文字檔，若用同一個 DLL 就會有延遲幾秒的現象。(換句話說，不同的策略最好使用各自的 DLL 輸出文字檔)

(2.5 訊號放前面)

| 日期        | 發現訊號         | 送單完畢         | 日期        | 發現訊號         | 送單完畢         | 策略     | 帳戶   |
|-----------|--------------|--------------|-----------|--------------|--------------|--------|------|
| 2019/2/21 | 18:12:23.141 | 18:12:23.157 | 2019/2/21 | 18:12:23.141 | 18:12:23.157 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:16:23.646 | 18:16:23.661 | 2019/2/21 | 18:16:23.677 | 18:16:23.692 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:18:07.517 | 18:18:07.532 | 2019/2/21 | 18:18:07.517 | 18:18:07.532 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:20:10.520 | 18:20:10.536 | 2019/2/21 | 18:20:10.520 | 18:20:10.536 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:22:41.804 | 18:22:41.819 | 2019/2/21 | 18:22:41.804 | 18:22:41.819 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:26:33.865 | 18:26:33.866 | 2019/2/21 | 18:26:33.866 | 18:26:33.867 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:28:04.226 | 18:28:04.228 | 2019/2/21 | 18:28:04.227 | 18:28:04.229 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:36:31.174 | 18:36:31.175 | 2019/2/21 | 18:36:31.175 | 18:36:31.176 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:38:07.687 | 18:38:07.688 | 2019/2/21 | 18:38:07.688 | 18:38:07.690 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:40:18.178 | 18:40:18.180 | 2019/2/21 | 18:40:18.182 | 18:40:18.184 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:42:12.070 | 18:42:12.072 | 2019/2/21 | 18:42:27.418 | 18:42:27.420 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:46:17.661 | 18:46:17.676 | 2019/2/21 | 18:46:17.661 | 18:46:17.676 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:48:30.696 | 18:48:30.711 | 2019/2/21 | 18:48:30.696 | 18:48:30.711 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:50:13.820 | 18:50:13.821 | 2019/2/21 | 18:50:13.823 | 18:50:13.825 | 文字檔_CT | (模擬) |
| 2019/2/21 | 18:53:08.803 | 18:53:08.818 | 2019/2/21 | 18:53:08.803 | 18:53:08.818 | 文字檔_CT | (模擬) |

(4.0 訊號放前面)

| 日期        | 發現訊號         | 送單完畢         | 日期        | 發現訊號         | 送單完畢         | 策略     | 帳戶   |
|-----------|--------------|--------------|-----------|--------------|--------------|--------|------|
| 2019/2/22 | 10:38:36.708 | 10:38:36.710 | 2019/2/22 | 10:38:36.704 | 10:38:36.706 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:39:16.699 | 10:39:16.701 | 2019/2/22 | 10:39:06.700 | 10:39:06.702 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:40:46.704 | 10:40:46.706 | 2019/2/22 | 10:40:36.703 | 10:40:36.705 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:41:26.698 | 10:41:26.699 | 2019/2/22 | 10:41:26.697 | 10:41:26.699 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:41:36.696 | 10:41:36.697 | 2019/2/22 | 10:41:36.695 | 10:41:36.697 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:41:56.700 | 10:41:56.701 | 2019/2/22 | 10:41:56.699 | 10:41:56.700 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:42:46.703 | 10:42:46.705 | 2019/2/22 | 10:42:46.702 | 10:42:46.704 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:43:36.696 | 10:43:36.698 | 2019/2/22 | 10:43:36.696 | 10:43:36.698 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:43:56.699 | 10:43:56.701 | 2019/2/22 | 10:43:56.699 | 10:43:56.701 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:44:56.698 | 10:44:56.700 | 2019/2/22 | 10:44:56.697 | 10:44:56.698 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:46:06.698 | 10:46:06.700 | 2019/2/22 | 10:46:06.696 | 10:46:06.698 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:46:56.695 | 10:46:56.697 | 2019/2/22 | 10:46:56.695 | 10:46:56.697 | 文字檔_CT | (模擬) |
| 2019/2/22 | 10:47:26.697 | 10:47:26.699 | 2019/2/22 | 10:47:26.695 | 10:47:26.697 | 文字檔_CT | (模擬) |

(3).萬用 API 與文字檔速度誰比較快：萬用 API 比較快

把文字檔放前面時，萬用 API 會有超越文字檔的情況，因此可判定萬用 API 比較快！

|           | *_OrderMasterTXT | *_OrderMasterAPI | ("Z:\Current_TXT.txt") | ("OMSign_API") |              |
|-----------|------------------|------------------|------------------------|----------------|--------------|
| (文字檔放前面)  |                  |                  |                        |                |              |
| 2019/2/22 | 17:47:08.230     | 17:47:08.232     | 文字檔_CT                 | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:47:08.232     | 17:47:08.234     | 萬用 API_CT              | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:47:22.230     | 17:47:22.232     | 文字檔_CT                 | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:47:22.233     | 17:47:22.234     | 萬用 API_CT              | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:47:36.228     | 17:47:36.230     | 萬用 API_CT              | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:47:36.228     | 17:47:36.230     | 文字檔_CT                 | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:48:18.235     | 17:48:18.237     | 文字檔_CT                 | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:48:18.239     | 17:48:18.241     | 萬用 API_CT              | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:48:46.233     | 17:48:46.235     | 文字檔_CT                 | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:48:46.235     | 17:48:46.237     | 萬用 API_CT              | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:49:21.233     | 17:49:21.235     | 萬用 API_CT              | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:49:21.233     | 17:49:21.235     | 文字檔_CT                 | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:49:56.232     | 17:49:56.234     | 文字檔_CT                 | (模擬)           | (模擬)-1234567 |
| 2019/2/22 | 17:49:56.233     | 17:49:56.235     | 萬用 API_CT              | (模擬)           | (模擬)-1234567 |

|              | *_OrderMasterAPI | *_OrderMasterTXT | ("OMSign_API") | ("Z:\Current_TXT.txt") | on           |
|--------------|------------------|------------------|----------------|------------------------|--------------|
| (萬用 API 放前面) |                  |                  |                |                        | off          |
| 2019/2/22    | 11:20:14.201     | 11:20:14.203     | 萬用 API_CT      | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:20:14.211     | 11:20:14.213     | 文字檔_CT         | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:20:34.197     | 11:20:34.198     | 萬用 API_CT      | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:20:34.207     | 11:20:34.208     | 文字檔_CT         | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:21:04.199     | 11:21:04.201     | 萬用 API_CT      | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:21:04.210     | 11:21:04.213     | 文字檔_CT         | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:21:14.195     | 11:21:14.196     | 萬用 API_CT      | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:21:14.209     | 11:21:14.210     | 文字檔_CT         | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:21:24.196     | 11:21:24.197     | 萬用 API_CT      | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:21:24.208     | 11:21:24.209     | 文字檔_CT         | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:22:14.205     | 11:22:14.207     | 萬用 API_CT      | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:22:34.210     | 11:22:34.212     | 文字檔_CT         | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:22:54.197     | 11:22:54.198     | 萬用 API_CT      | (模擬)                   | (模擬)-1234567 |
| 2019/2/22    | 11:22:54.206     | 11:22:54.207     | 文字檔_CT         | (模擬)                   | (模擬)-1234567 |

(4).圖表中指標與訊號速度誰比較快：訊號比較快，大多數差距在3毫秒以內

指標與訊號用各自的 DLL 輸出文字檔，可發現訊號速度穩定領先指標。

|           |              |              |          |      |              |
|-----------|--------------|--------------|----------|------|--------------|
| 2019/2/22 | 14:05:56.523 | 14:05:56.525 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:05:56.525 | 14:05:56.526 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:03.507 | 14:06:03.508 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:03.508 | 14:06:03.510 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:17.529 | 14:06:17.531 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:17.532 | 14:06:17.533 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:24.517 | 14:06:24.519 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:24.519 | 14:06:24.521 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:31.514 | 14:06:31.516 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:31.516 | 14:06:31.518 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:38.514 | 14:06:38.516 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:06:38.514 | 14:06:38.516 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:07:34.516 | 14:07:34.518 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:07:34.518 | 14:07:34.520 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:08:30.525 | 14:08:30.527 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:08:30.531 | 14:08:30.533 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:08:44.513 | 14:08:44.515 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:08:44.515 | 14:08:44.517 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:08:58.517 | 14:08:58.519 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:08:58.519 | 14:08:58.521 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:09:33.527 | 14:09:33.529 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:09:33.533 | 14:09:33.535 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:10:01.513 | 14:10:01.513 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:10:01.515 | 14:10:01.517 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:10:08.513 | 14:10:08.515 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:10:08.515 | 14:10:08.517 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:10:22.510 | 14:10:22.512 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:10:22.512 | 14:10:22.514 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:11:11.518 | 14:11:11.520 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:11:11.520 | 14:11:11.522 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:11:25.523 | 14:11:25.525 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:11:25.527 | 14:11:25.529 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:11:39.513 | 14:11:39.514 | 文字檔_CT_S | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 14:11:39.515 | 14:11:39.516 | 文字檔_CT_P | (模擬) | (模擬)-1234567 |

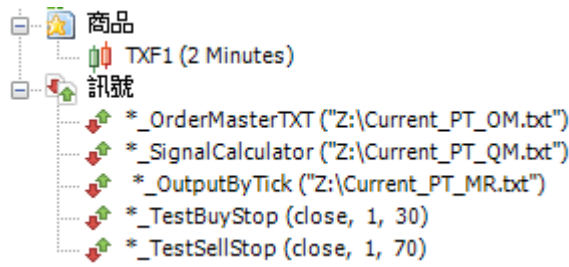
(5).圖表交易和 PT 誰比較快：PT 比較快，正常情況下差距在 3 秒內

在 MultiCharts 同時開圖表交易和 PT，可發現 PT 不論是用移動窗格測試或是自動交易模式，速度都比圖表交易快，由於差距不到 3 秒內，因此偶爾會有一次是圖表交易比較快。

- \* \_TestBuyStop (close, 1, 30)
- \* \_TestSellStop (close, 1, 70)
- \* \_OrderMasterTXT ("Z:\Current\_PT\_OM.txt")
- \* \_SignalCalculator ("Z:\Current\_PT\_QM.txt")
- \* \_OutputByTick ("Z:\Current\_PT\_MR.txt")

(移動窗格測試)

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/21 | 11:39:22.497 | 11:39:22.506 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.498 | 11:39:22.506 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.500 | 11:39:22.506 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.607 | 11:39:22.609 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.609 | 11:39:22.611 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:23.659 | 11:39:23.661 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:45:08.351 | 11:45:08.353 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:45:08.357 | 11:45:08.358 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:45:08.359 | 11:45:08.361 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:45:08.447 | 11:45:08.448 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:45:08.447 | 11:45:08.448 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:45:08.449 | 11:45:08.451 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:47:02.247 | 11:47:02.249 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:47:02.247 | 11:47:02.249 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:47:02.248 | 11:47:02.249 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:47:02.360 | 11:47:02.362 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:47:02.362 | 11:47:02.362 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:47:02.365 | 11:47:02.366 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:51:34.151 | 11:51:34.151 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:51:34.153 | 11:51:34.155 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:51:34.154 | 11:51:34.155 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:51:34.241 | 11:51:34.243 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:51:34.246 | 11:51:34.247 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:51:34.499 | 11:51:34.501 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:53:38.801 | 11:53:38.803 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:53:38.801 | 11:53:38.803 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:53:38.803 | 11:53:38.803 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:53:38.901 | 11:53:38.903 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:53:38.903 | 11:53:38.905 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:53:38.905 | 11:53:38.907 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |



(自動交易)

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/21 | 12:44:29.674 | 12:44:29.675 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:29.677 | 12:44:29.679 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:29.682 | 12:44:29.683 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:30.072 | 12:44:30.072 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:30.076 | 12:44:30.078 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:30.078 | 12:44:30.079 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:12.574 | 12:47:12.574 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:12.577 | 12:47:12.578 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:12.596 | 12:47:12.597 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:21.917 | 12:47:21.917 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:21.919 | 12:47:21.921 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:21.921 | 12:47:21.921 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.636 | 12:49:05.636 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.640 | 12:49:05.642 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.642 | 12:49:05.642 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.778 | 12:49:05.778 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.782 | 12:49:05.784 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.783 | 12:49:05.784 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.517 | 12:51:52.519 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.517 | 12:51:52.519 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.518 | 12:51:52.519 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.524 | 12:51:52.525 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.525 | 12:51:52.527 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.526 | 12:51:52.527 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.474 | 12:58:25.477 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.475 | 12:58:25.477 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.476 | 12:58:25.477 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.554 | 12:58:25.556 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.555 | 12:58:25.556 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:28.320 | 12:58:28.322 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |



(6).訊號出現卻慢了好幾秒才下單的情況探討：推測與報價品質和訊號數量有關

偶爾會有用戶反應說，下單大師慢了好幾秒才下單，對下單大師來說，這實在是不可能的事情，因為文字檔不斷在偵測訊號(萬用 API 內部也是不斷在偵測訊號)，因此我們特別把三家的 DLL 放在一起，經過密集測試後，發現的確有延遲的情況，少則慢 3~5 秒，多則慢將近 20 秒才下單，所幸都跟輸出文字檔沒有關係，最後我們終於找出兩種原因：報價 tick 數太少或品質不好，以及訊號數量超過 3 個就可能會有延遲的情況。

(1).報價品質問題：日盤 tick 數量多，慢的情況少；夜盤 tick 數量少，慢的情況特別多  
日盤：

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/21 | 12:44:29.674 | 12:44:29.675 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:29.677 | 12:44:29.679 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:29.682 | 12:44:29.683 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:30.072 | 12:44:30.072 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:30.076 | 12:44:30.078 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:44:30.078 | 12:44:30.079 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:12.574 | 12:47:12.574 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:12.577 | 12:47:12.578 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:12.596 | 12:47:12.597 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:21.917 | 12:47:21.917 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:21.919 | 12:47:21.921 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:47:21.921 | 12:47:21.921 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.636 | 12:49:05.636 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.640 | 12:49:05.642 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.642 | 12:49:05.642 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.778 | 12:49:05.778 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.782 | 12:49:05.784 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:49:05.783 | 12:49:05.784 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.517 | 12:51:52.519 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.517 | 12:51:52.519 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.518 | 12:51:52.519 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.524 | 12:51:52.525 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.525 | 12:51:52.527 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:51:52.526 | 12:51:52.527 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.474 | 12:58:25.477 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.475 | 12:58:25.477 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.476 | 12:58:25.477 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.554 | 12:58:25.556 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |

夜盤：

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/20 | 20:11:01.131 | 20:11:01.147 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:11:01.147 | 20:11:01.162 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:11:01.162 | 20:11:01.178 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:11:01.209 | 20:11:01.209 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:11:01.209 | 20:11:01.209 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:11:01.209 | 20:11:01.225 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:16:37.740 | 20:16:37.742 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:16:37.743 | 20:16:37.744 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:16:37.745 | 20:16:37.746 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:16:45.658 | 20:16:45.658 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:16:45.658 | 20:16:45.658 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:16:45.674 | 20:16:45.674 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:22:02.526 | 20:22:02.528 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:22:02.527 | 20:22:02.528 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:22:02.532 | 20:22:02.534 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:22:20.390 | 20:22:20.392 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:22:20.392 | 20:22:20.394 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:22:20.398 | 20:22:20.400 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:28:20.348 | 20:28:20.349 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:28:20.348 | 20:28:20.349 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:28:20.349 | 20:28:20.351 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:28:25.632 | 20:28:25.632 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:28:25.632 | 20:28:25.648 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:28:25.632 | 20:28:25.648 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:34:19.271 | 20:34:19.287 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:34:19.318 | 20:34:19.334 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:34:19.318 | 20:34:19.334 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:34:19.334 | 20:34:19.349 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:34:19.487 | 20:34:19.503 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:34:19.487 | 20:34:19.503 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:42:10.595 | 20:42:10.611 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:42:10.611 | 20:42:10.626 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:42:10.626 | 20:42:10.642 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:42:19.331 | 20:42:19.347 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:42:19.347 | 20:42:19.347 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/20 | 20:42:19.378 | 20:42:19.394 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |

(2).訊號數量超過3個：可能會有訊號延遲的情況，但不一定是哪一個訊號

|                    |                          |    |
|--------------------|--------------------------|----|
| *_TestBuyStop      | (close, 1, 30)           | on |
| *_TestSellStop     | (close, 1, 70)           | on |
| *_OrderMasterTXT   | ("Z:\Current_CT_OM.txt") | on |
| *_SignalCalculator | ("Z:\Current_CT_QM.txt") | on |
| *_OutputByTick     | ("Z:\Current_CT_MR.txt") | on |

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/22 | 11:43:10.979 | 11:43:10.980 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:43:10.981 | 11:43:10.982 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/22 | 11:43:30.996 | 11:43:30.997 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |

|                    |                          |    |
|--------------------|--------------------------|----|
| *_TestBuyStop      | (close, 1, 30)           | on |
| *_TestSellStop     | (close, 1, 70)           | on |
| *_OrderMasterTXT   | ("Z:\Current_CT_OM.txt") | on |
| *_SignalCalculator | ("Z:\Current_CT_QM.txt") | on |
| *_OutputByTick     | ("Z:\Current_CT_MR.txt") | on |

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/21 | 11:39:22.497 | 11:39:22.506 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.498 | 11:39:22.506 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.500 | 11:39:22.506 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.607 | 11:39:22.609 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:22.609 | 11:39:22.611 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 11:39:23.659 | 11:39:23.661 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |

|                    |                          |    |
|--------------------|--------------------------|----|
| *_TestBuyStop      | (close, 1, 30)           | on |
| *_TestSellStop     | (close, 1, 70)           | on |
| *_OutputByTick     | ("Z:\Current_CT_MR.txt") | on |
| *_SignalCalculator | ("Z:\Current_CT_QM.txt") | on |
| *_OrderMasterTXT   | ("Z:\Current_CT_OM.txt") | on |

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/21 | 10:16:05.484 | 10:16:05.486 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 10:16:05.487 | 10:16:05.488 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 10:16:05.490 | 10:16:05.491 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 10:16:05.541 | 10:16:05.542 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 10:16:05.542 | 10:16:05.542 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 10:16:08.796 | 10:16:08.798 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |

|                    |                          |    |
|--------------------|--------------------------|----|
| _OrderMasterTXT    | ("Z:\Current_CT_OM.txt") | on |
| *_SignalCalculator | ("Z:\Current_CT_QM.txt") | on |
| *_OutputByTick     | ("Z:\Current_CT_MR.txt") | on |
| *_TestBuyStop      | (close, 1, 30)           | on |
| *_TestSellStop     | (close, 1, 70)           | on |

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/21 | 12:58:25.474 | 12:58:25.477 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.475 | 12:58:25.477 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.476 | 12:58:25.477 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.554 | 12:58:25.556 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:25.555 | 12:58:25.556 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 12:58:28.320 | 12:58:28.322 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |

- 📌 \*\_OutputByTick ("Z:\Current\_PT\_MR.txt")
- 📌 \*\_SignalCalculator ("Z:\Current\_PT\_QM.txt")
- 📌 \*\_OrderMasterTXT ("Z:\Current\_PT\_OM.txt")
- 📌 \*\_TestBuyStop
- 📌 \*\_TestSellStop

|           |              |              |           |      |              |
|-----------|--------------|--------------|-----------|------|--------------|
| 2019/2/21 | 13:25:08.028 | 13:25:08.029 | 文字檔_PT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 13:25:08.030 | 13:25:08.031 | 文字檔_PT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 13:25:08.118 | 13:25:08.119 | 文字檔_CT_MR | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 13:25:08.122 | 13:25:08.123 | 文字檔_CT_QM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 13:25:08.123 | 13:25:08.123 | 文字檔_CT_OM | (模擬) | (模擬)-1234567 |
| 2019/2/21 | 13:25:09.834 | 13:25:09.835 | 文字檔_PT_OM | (模擬) | (模擬)-1234567 |

以上測試報告，歡迎指教！

下單大師 敬上