

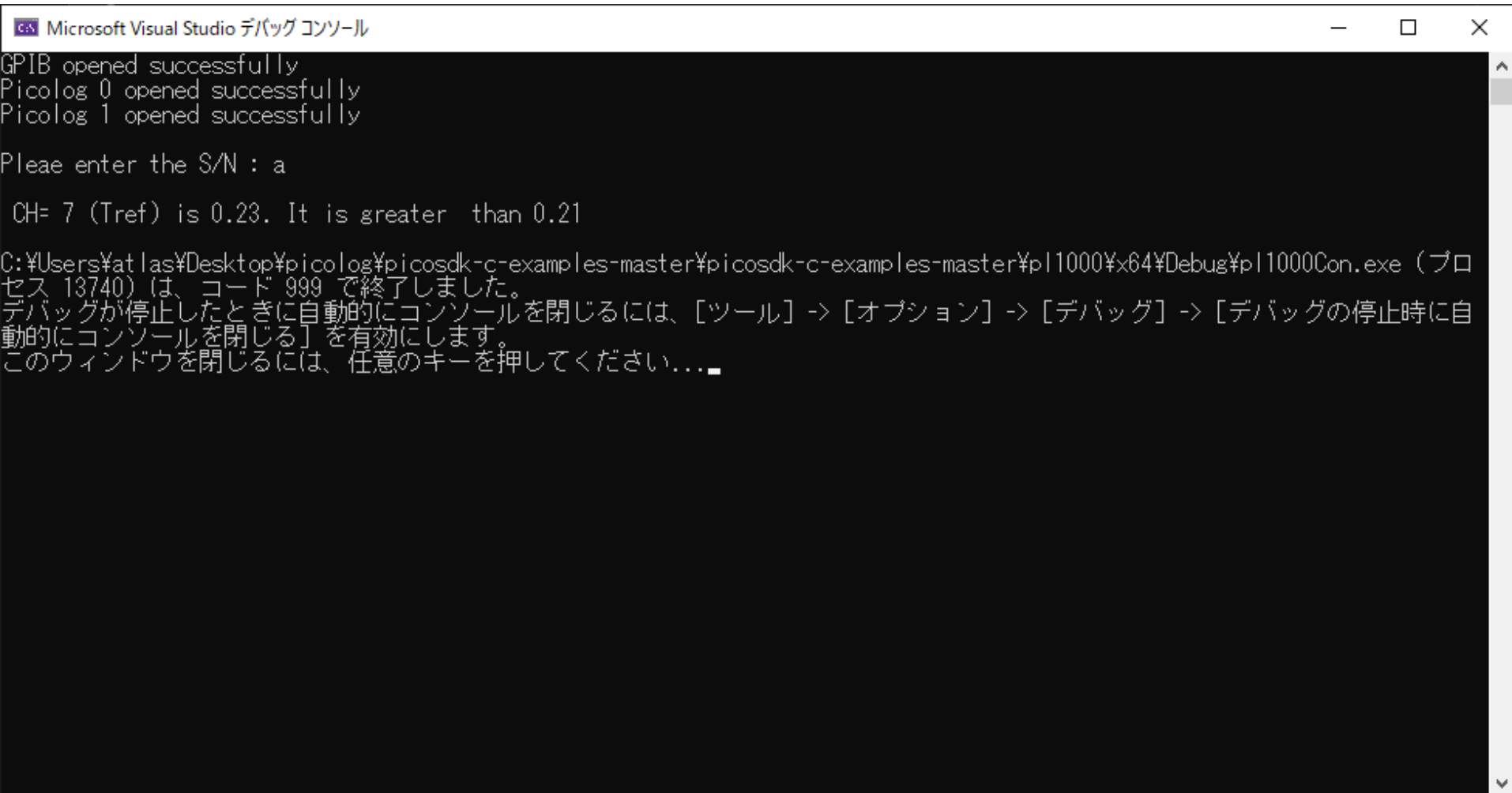
LVHV test 自動化

```
C:\Users\atlas\Desktop\picolog\picosdk-c-examples-master\picosdk-c-examples-master\pl1000\x64\Debug\pl1000Con.exe
GPIB opened successfully
Picolog 0 opened successfully
Picolog 1 opened successfully

Please enter the S/N : a
initial loop
01 0.000 0.337 0.335 1.159 1.155 0.896 0.022 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 2.2[%]
02 0.000 0.330 0.336 1.157 1.155 0.896 0.047 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 4.7[%]
03 0.000 0.333 0.335 1.159 1.154 0.896 0.026 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 2.6[%]
04 0.000 0.336 0.336 1.159 1.155 0.896 0.055 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 5.5[%]
05 0.000 0.330 0.337 1.159 1.155 0.896 0.034 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 3.4[%]
06 0.000 0.335 0.338 1.159 1.155 0.896 0.020 0.233 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.3[deg.] Humidity= 2.0[%]
07 0.000 0.332 0.336 1.158 1.154 0.896 0.043 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 4.3[%]
08 0.000 0.331 0.336 1.154 1.150 0.896 0.025 0.231 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.1[deg.] Humidity= 2.5[%]
09 0.000 0.330 0.335 1.156 1.152 0.896 0.054 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 5.4[%]
10 0.000 0.332 0.337 1.156 1.152 0.896 0.031 0.232 Rntc=14.7[kOhm] Tntc=15.3[deg.] Tref=23.2[deg.] Humidity= 3.1[%]
0:00:11 0.000 0.335 0.332 1.156 1.150 0.896 0.058 0.232 Rvin=0.1[mOhm] Rgnd=0.1[mOhm] Rtot=0.2[mOhm]
0:00:12 0.000 0.332 0.336 1.155 1.152 0.896 0.037 0.232 Rvin=-0.1[mOhm] Rgnd=0.1[mOhm] Rtot=-0.0[mOhm]
0:00:13 0.000 0.332 0.335 1.157 1.153 0.896 0.022 0.232 Rvin=-0.1[mOhm] Rgnd=0.1[mOhm] Rtot=0.0[mOhm]
0:00:14 0.000 0.335 0.338 1.159 1.153 0.896 0.047 0.232 Rvin=-0.1[mOhm] Rgnd=0.1[mOhm] Rtot=0.1[mOhm]
0:00:15 0.000 0.335 0.337 1.158 1.152 0.896 0.026 0.231 Rvin=-0.0[mOhm] Rgnd=0.1[mOhm] Rtot=0.1[mOhm]
0:00:16 0.000 0.333 0.336 1.159 1.155 0.896 0.055 0.231 Rvin=-0.1[mOhm] Rgnd=0.1[mOhm] Rtot=0.0[mOhm]
0:00:17 0.000 0.335 0.337 1.158 1.156 0.896 0.033 0.232 Rvin=-0.0[mOhm] Rgnd=0.0[mOhm] Rtot=-0.0[mOhm]
0:00:18 0.000 0.332 0.339 1.163 1.159 0.896 0.020 0.232 Rvin=-0.1[mOhm] Rgnd=0.1[mOhm] Rtot=-0.1[mOhm]
0:00:19 0.000 0.338 0.336 1.162 1.158 0.896 0.043 0.231 Rvin=0.0[mOhm] Rgnd=0.1[mOhm] Rtot=0.1[mOhm]
0:00:20 0.000 0.333 0.336 1.161 1.156 0.896 0.024 0.231 Rvin=-0.1[mOhm] Rgnd=0.1[mOhm] Rtot=0.0[mOhm]
```

picolog : widows x VS (picologの複数を1つのPCで扱える)
picologのSDKは、C言語(iostreamが使えない！)
HV, LV : GPIB x USB/GPIB(ratoc system)

LVHV test 自動化



```
Microsoft Visual Studio デバッグ コンソール
GPIB opened successfully
Picolog 0 opened successfully
Picolog 1 opened successfully
Pleaase enter the S/N : a
CH= 7 (Tref) is 0.23. It is greater than 0.21
C:\Users\atlas\Desktop\picolog\picosdk-c-examples-master\picosdk-c-examples-master\pl1000\x64\Debug\pl1000Con.exe (プロセス 13740) は、コード 999 で終了しました。
デバッグが停止したときに自動的にコンソールを閉じるには、[ツール] -> [オプション] -> [デバッグ] -> [デバッグの停止時に自動的にコンソールを閉じる] を有効にします。
このウィンドウを閉じるには、任意のキーを押してください...■
```

connectionのエラーを始めに検知している

出力

| | HV 平均 (V) | VIN- 平均 (V) | VIN+ 平均 (V) | GND- 平均 (V) | GND+ 平均 (V) | NTC 平均 (V) | Humidity 平均 (V) | Temperature 平均 (V) | 日時分秒 |
|---------|-----------|-------------|-------------|-------------|-------------|------------|-----------------|--------------------|--|
| 0:00:01 | 0 | 0.337 | 0.335 | 1.159 | 1.155 | 0.896 | 0.022 | 0.232 | 20240627_143058.153 |
| 0:00:02 | 0 | 0.33 | 0.336 | 1.157 | 1.155 | 0.896 | 0.047 | 0.232 | 20240627_143059.282 |
| 0:00:03 | 0 | 0.333 | 0.335 | 1.159 | 1.154 | 0.896 | 0.026 | 0.232 | 20240627_143100.420 |
| 0:00:04 | 0 | 0.336 | 0.336 | 1.159 | 1.155 | 0.896 | 0.055 | 0.232 | 20240627_143101.551 |
| 0:00:05 | 0 | 0.33 | 0.337 | 1.159 | 1.155 | 0.896 | 0.034 | 0.232 | 20240627_143102.682 |
| 0:00:06 | 0 | 0.335 | 0.338 | 1.159 | 1.155 | 0.896 | 0.02 | 0.233 | 20240627_143103.814 |
| 0:00:07 | 0 | 0.332 | 0.336 | 1.158 | 1.154 | 0.896 | 0.043 | 0.232 | 20240627_143104.940 |
| 0:00:08 | 0 | 0.331 | 0.336 | 1.154 | 1.15 | 0.896 | 0.025 | 0.231 | 20240627_143106.074 |
| 0:00:09 | 0 | 0.33 | 0.335 | 1.156 | 1.152 | 0.896 | 0.054 | 0.232 | 20240627_143107.204 |
| 0:00:10 | 0 | 0.332 | 0.337 | 1.156 | 1.152 | 0.896 | 0.031 | 0.232 | 20240627_143108.341 |
| 0:00:11 | 0 | 0.335 | 0.332 | 1.156 | 1.15 | 0.896 | 0.058 | 0.232 | 20240627_143109.486 |
| 0:00:12 | 0 | 0.332 | 0.336 | 1.155 | 1.152 | 0.896 | 0.037 | 0.232 | 20240627_143110.615 |
| 0:00:13 | 0 | 0.332 | 0.335 | 1.157 | 1.153 | 0.896 | 0.022 | 0.232 | 20240627_143111.745 |
| 0:00:14 | 0 | 0.335 | 0.336 | 1.159 | 1.153 | 0.896 | 0.047 | 0.232 | 20240627_143112.875 |
| 0:00:15 | 0 | 0.335 | | | | | | | 20UPGPQ2609999_20240627_131450.285.csv 2024/06/27 13:15 Microsoft Excel CS... 3 KB 4.010 |
| 0:00:16 | 0 | 0.333 | | | | | | | 20UPGPQ2609999_20240627_131002.721.csv 2024/06/27 13:10 Microsoft Excel CS... 3 KB 5.143 |
| 0:00:17 | 0 | 0.335 | | | | | | | 20UPGPQ2609999_20240627_125745.443.csv 2024/06/27 12:57 Microsoft Excel CS... 2 KB 6.270 |
| 0:00:18 | 0 | 0.332 | | | | | | | 20UPGPQ2609999_20240627_125442.315.csv 2024/06/27 12:54 Microsoft Excel CS... 2 KB 7.399 |
| 0:00:19 | 0 | 0.338 | | | | | | | 20UPGPQ2609999_20240627_100840.992.csv 2024/06/27 10:08 Microsoft Excel CS... 2 KB 8.529 |
| 0:00:20 | 0 | 0.333 | | | | | | | plot.xlsm 2024/06/24 14:31 Microsoft Excel 7... 111 KB 9.664 |
| | | | | | | | | | 20UPGPQ2603033_20240621_120238.644.csv 2024/06/21 12:05 Microsoft Excel CS... 15 KB |
| | | | | | | | | | 20UPGPQ2603032_20240621_113441.940.csv 2024/06/21 11:46 Microsoft Excel CS... 55 KB |
| | | | | | | | | | 20UPGPQ2603032_20240621_113247.024.csv 2024/06/21 11:33 Microsoft Excel CS... 2 KB |
| | | | | | | | | | 20UPGPQ2603022.csv 2024/06/21 8:23 Microsoft Excel CS... 32 KB |
| | | | | | | | | | 20UPGPQ2603022_20240620_161730.619.csv 2024/06/20 16:29 Microsoft Excel CS... 55 KB |
| | | | | | | | | | 20UPGPQ2603025_20240620_154817.116.csv 2024/06/20 15:59 Microsoft Excel CS... 55 KB |
| | | | | | | | | | 20UPGPQ2603026_20240620_152606.076.csv 2024/06/20 15:37 Microsoft Excel CS... 55 KB |
| | | | | | | | | | 20UPGPQ2601014_20240620_150743.315.csv 2024/06/20 15:19 Microsoft Excel CS... 55 KB |

simple plot

