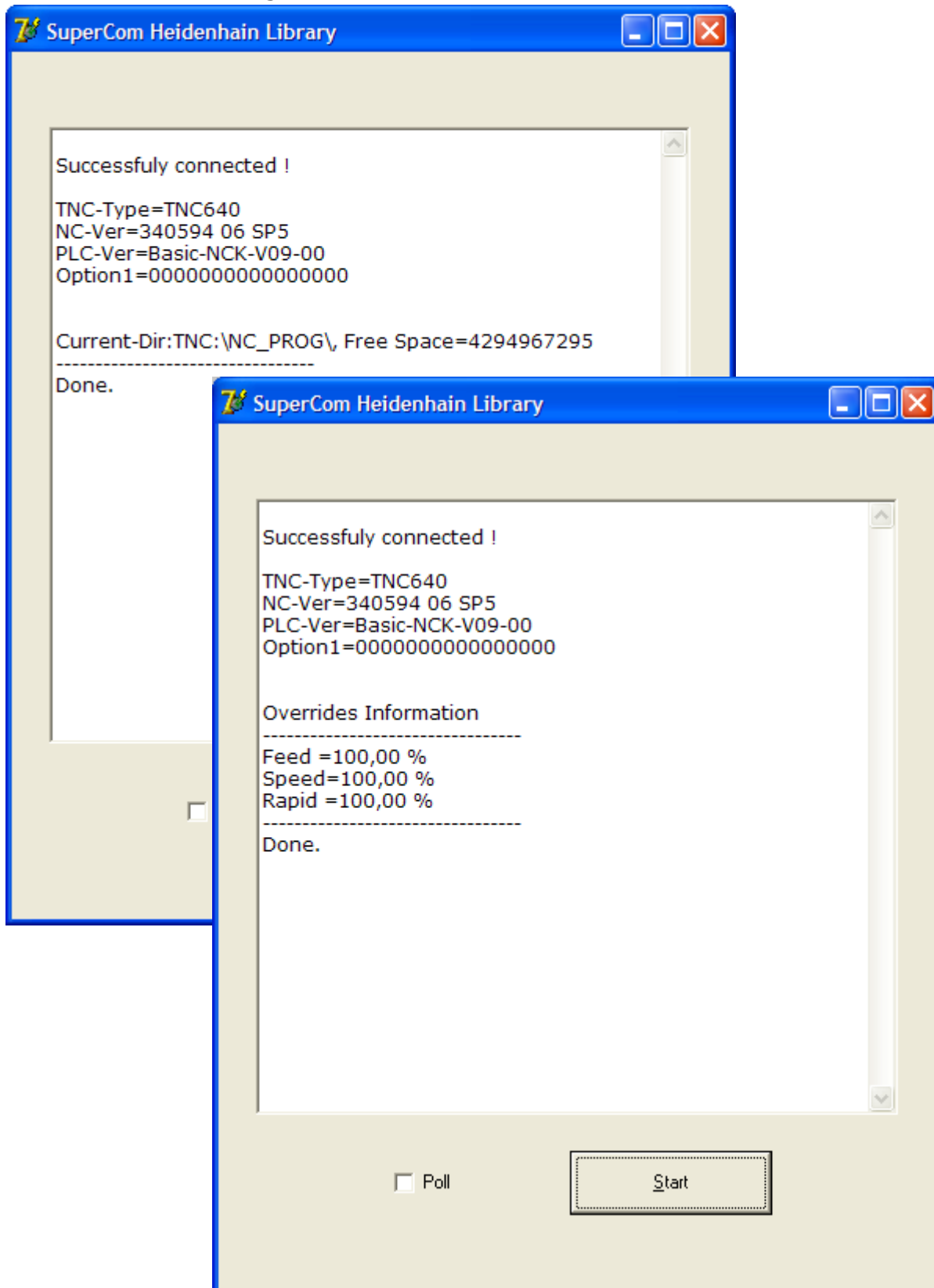


SuperCom Heidenhain Library

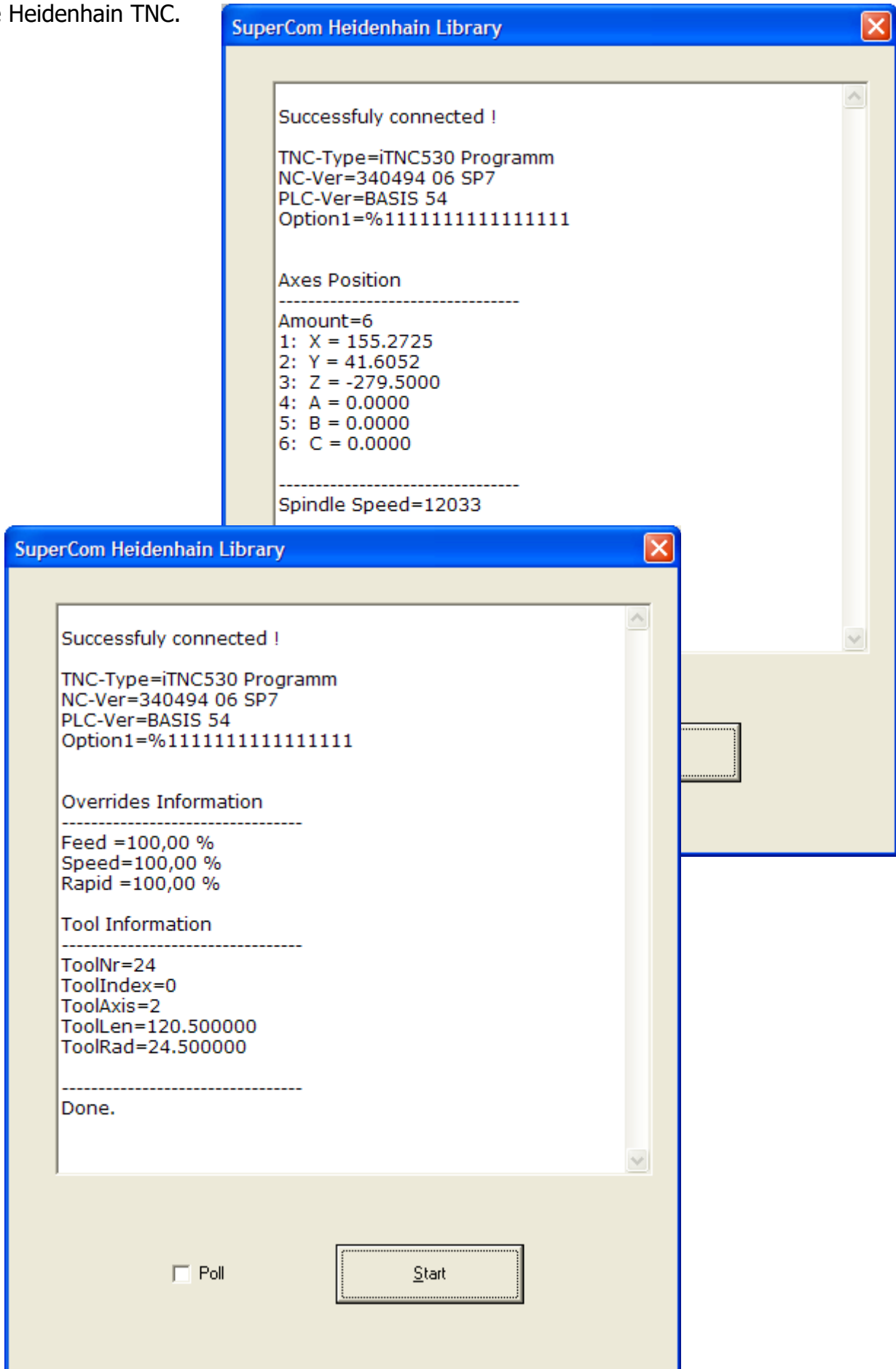
Outputs from sample programs

Reading the machine type information, the current directory and free space information and actual override settings of the Heidenhain controller.



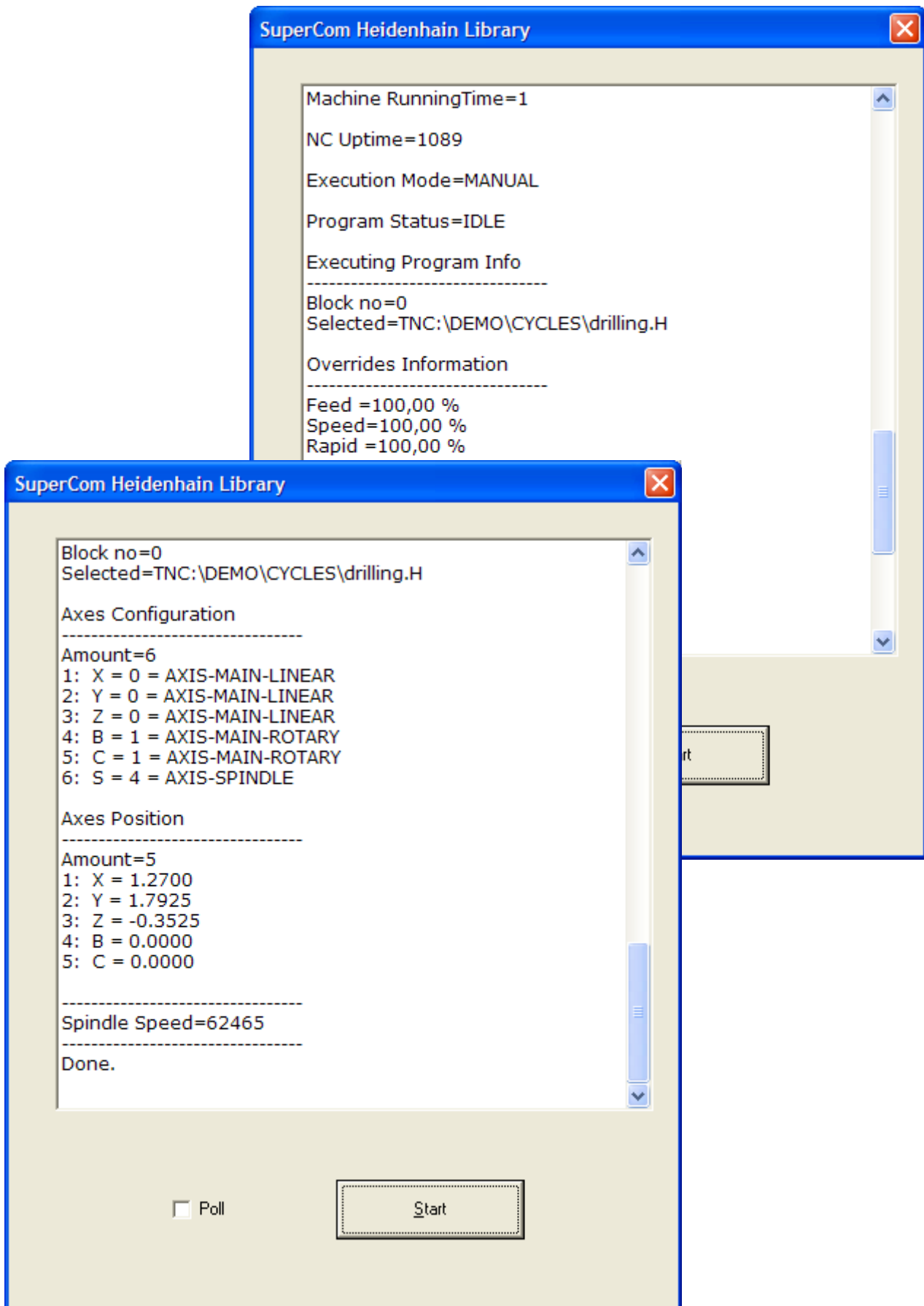
iTNC530

Reading override information, tool information, axes data and the actual spindle speed of the Heidenhain TNC.



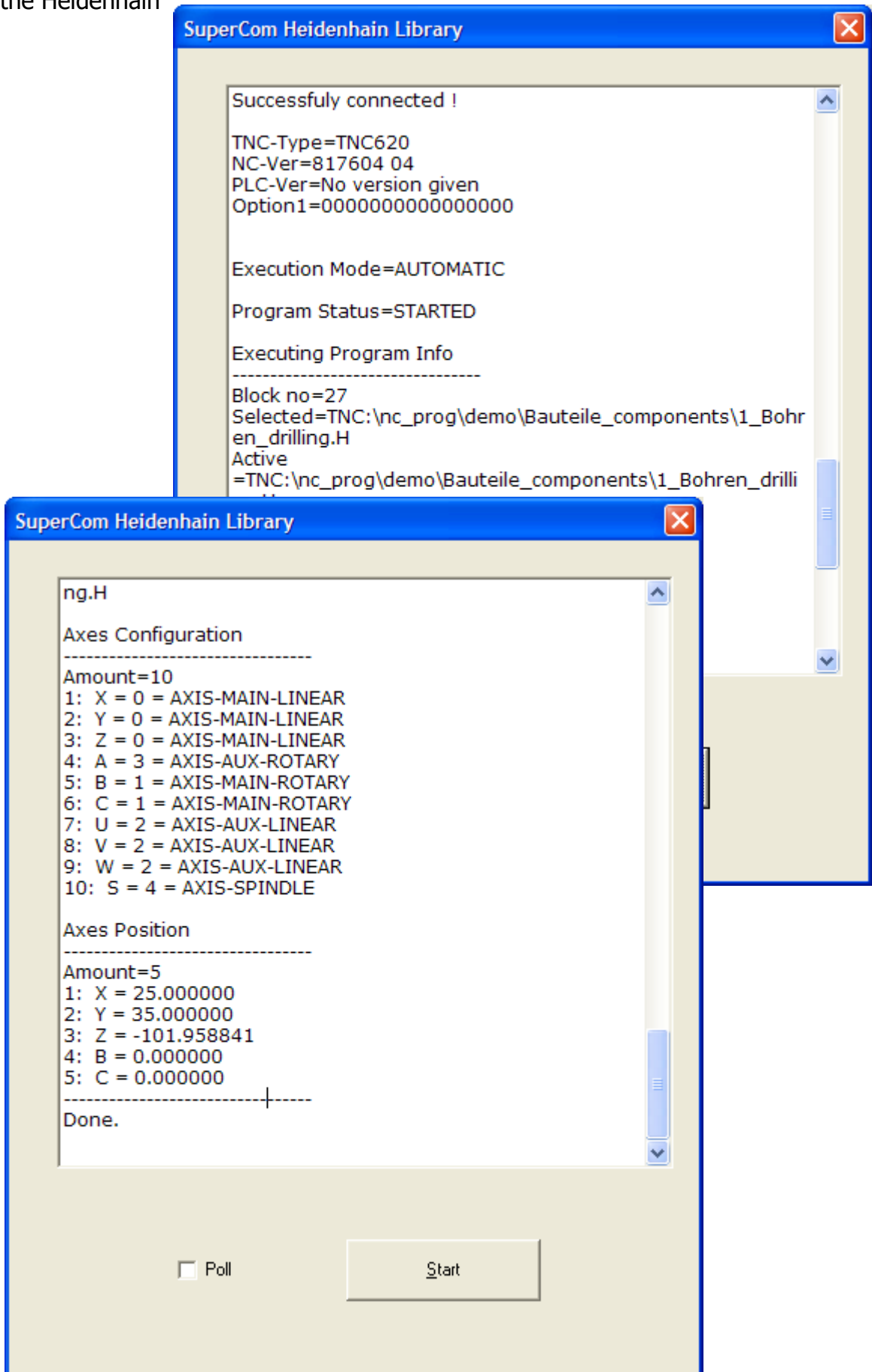
iTNC530

Reading override information and axes data of the Heidenhain controller.



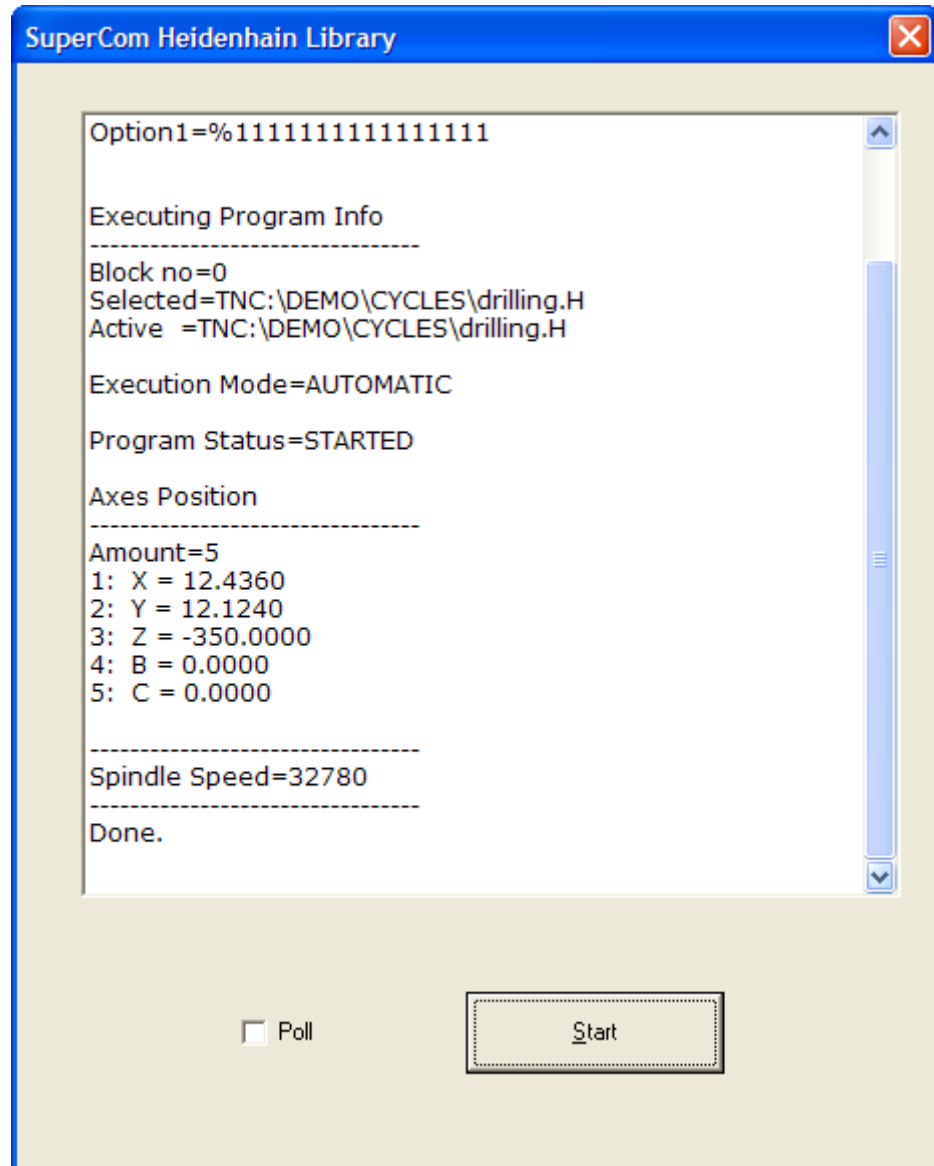
TNC620

Reading the actual program information, execution mode, programs status and some axes data of the Heidenhain TNC.



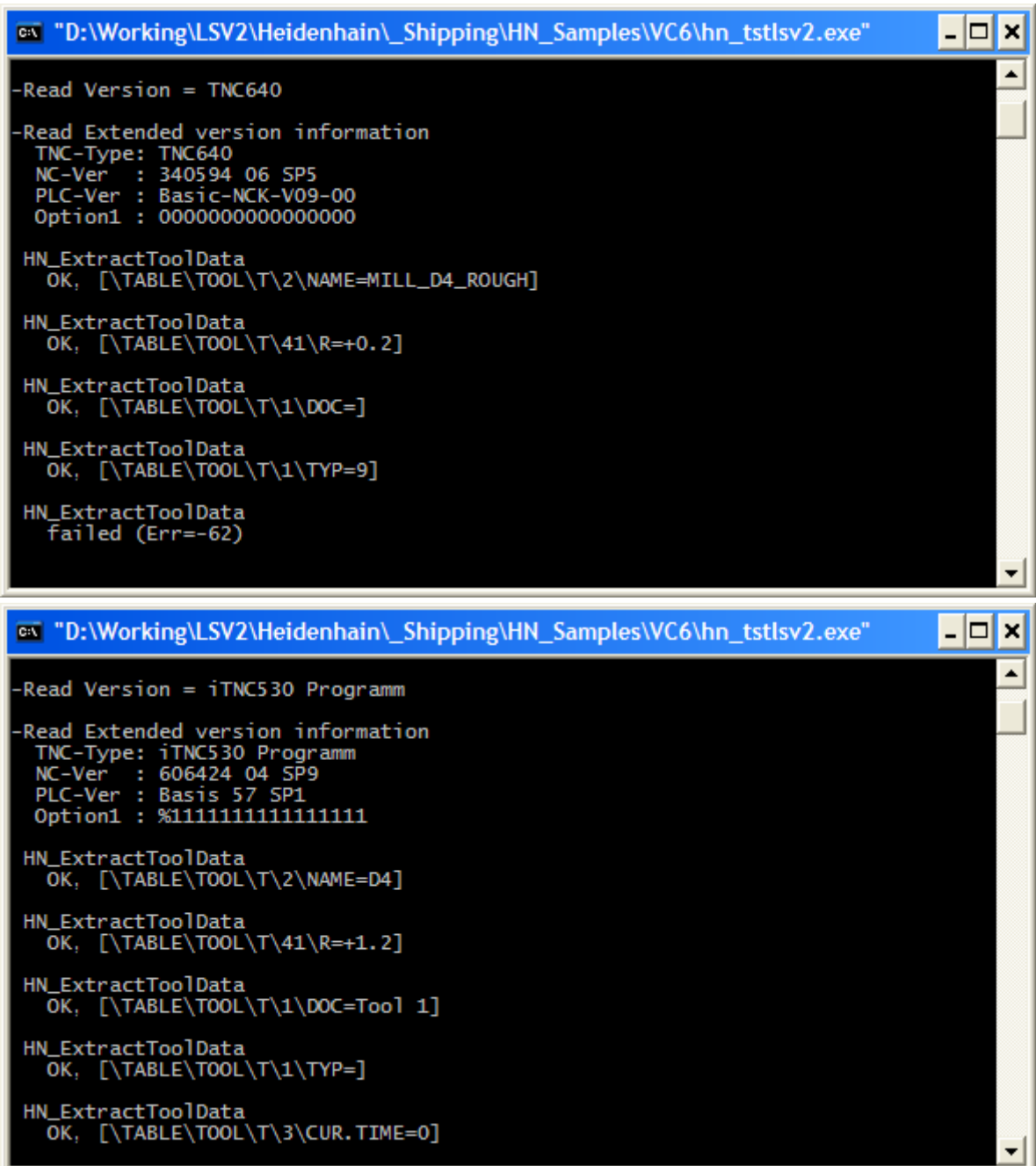
iTNC530

Reading the actual program information, execution mode, programs status and some axes data of the Heidenhain controller.



HN_ExtractToolData demonstrating extracting fields out of the tool table of the Heidenhain TNC machine.

A returned error code -62 means a field we looked for does not exist in the tool table.



```
C:\ "D:\Working\LSV2\Heidenhain\_Shipping\HN_Samples\VC6\hn_tstlsv2.exe"

-Read Version = TNC640
-Read Extended version information
TNC-Type: TNC640
NC-Ver : 340594 06 SP5
PLC-Ver : Basic-NCK-V09-00
Option1 : 0000000000000000

HN_ExtractToolData
OK, [\TABLE\TOOL\T\2\NAME=MILL_D4_ROUGH]

HN_ExtractToolData
OK, [\TABLE\TOOL\T\41\R=+0.2]

HN_ExtractToolData
OK, [\TABLE\TOOL\T\1\DOC=]

HN_ExtractToolData
OK, [\TABLE\TOOL\T\1\TYP=9]

HN_ExtractToolData
failed (Err=-62)

C:\ "D:\Working\LSV2\Heidenhain\_Shipping\HN_Samples\VC6\hn_tstlsv2.exe"

-Read Version = iTNC530 Programm
-Read Extended version information
TNC-Type: iTNC530 Programm
NC-Ver : 606424 04 SP9
PLC-Ver : Basis 57 SP1
Option1 : %1111111111111111

HN_ExtractToolData
OK, [\TABLE\TOOL\T\2\NAME=D4]

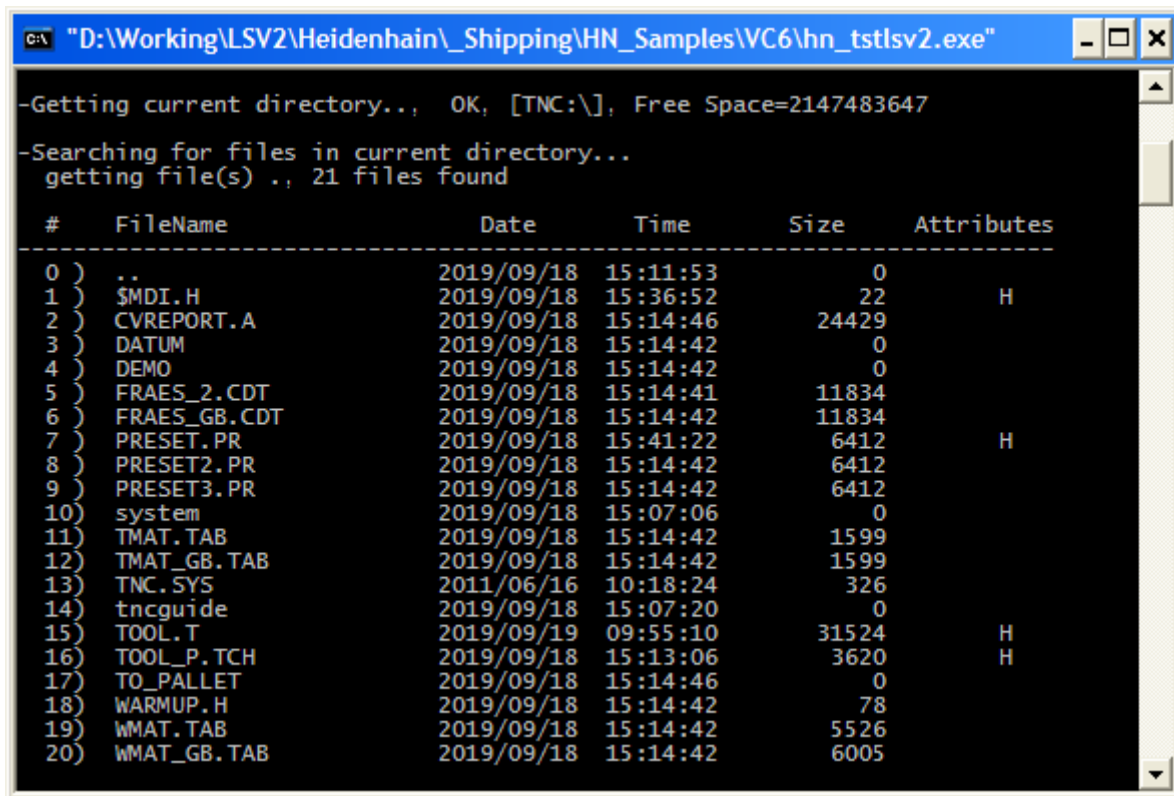
HN_ExtractToolData
OK, [\TABLE\TOOL\T\41\R=+1.2]

HN_ExtractToolData
OK, [\TABLE\TOOL\T\1\DOC=Tool 1]

HN_ExtractToolData
OK, [\TABLE\TOOL\T\1\TYP=]

HN_ExtractToolData
OK, [\TABLE\TOOL\T\3\CUR.TIME=0]
```

Listing the remote directory of the Heidenhain TNC.



```
c:\ "D:\Working\LSV2\Heidenhain\_Shipping\HN_Samples\VC6\hn_tstlsv2.exe"
-Getting current directory.., OK, [TNC:\], Free Space=2147483647
-Searching for files in current directory...
getting file(s) ., 21 files found
#   FileName           Date       Time       Size      Attributes
-----
0 ) ..                  2019/09/18 15:11:53    0
1 ) $MDI.H              2019/09/18 15:36:52   22         H
2 ) CVREPORT.A         2019/09/18 15:14:46 24429
3 ) DATUM              2019/09/18 15:14:42    0
4 ) DEMO               2019/09/18 15:14:42    0
5 ) FRAES_2.CDT        2019/09/18 15:14:41 11834
6 ) FRAES_GB.CDT      2019/09/18 15:14:42 11834
7 ) PRESET.PR         2019/09/18 15:41:22   6412       H
8 ) PRESET2.PR        2019/09/18 15:14:42   6412
9 ) PRESET3.PR        2019/09/18 15:14:42   6412
10) system             2019/09/18 15:07:06    0
11) TMAT.TAB           2019/09/18 15:14:42   1599
12) TMAT_GB.TAB       2019/09/18 15:14:42   1599
13) TNC.SYS            2011/06/16 10:18:24   326
14) tncguide           2019/09/18 15:07:20    0
15) TOOL.T             2019/09/19 09:55:10 31524      H
16) TOOL_P.TCH        2019/09/18 15:13:06   3620       H
17) TO_PALLET         2019/09/18 15:14:46    0
18) WARMUP.H          2019/09/18 15:14:42    78
19) WMAT.TAB          2019/09/18 15:14:42   5526
20) WMAT_GB.TAB       2019/09/18 15:14:42  6005
```

TNC 7

Reading the actual program information, execution mode, programs status of the Heidenhain controller.

```
SuperCom Heidenhain C# example
SuperCom v10.60 - HN Lib 4.70

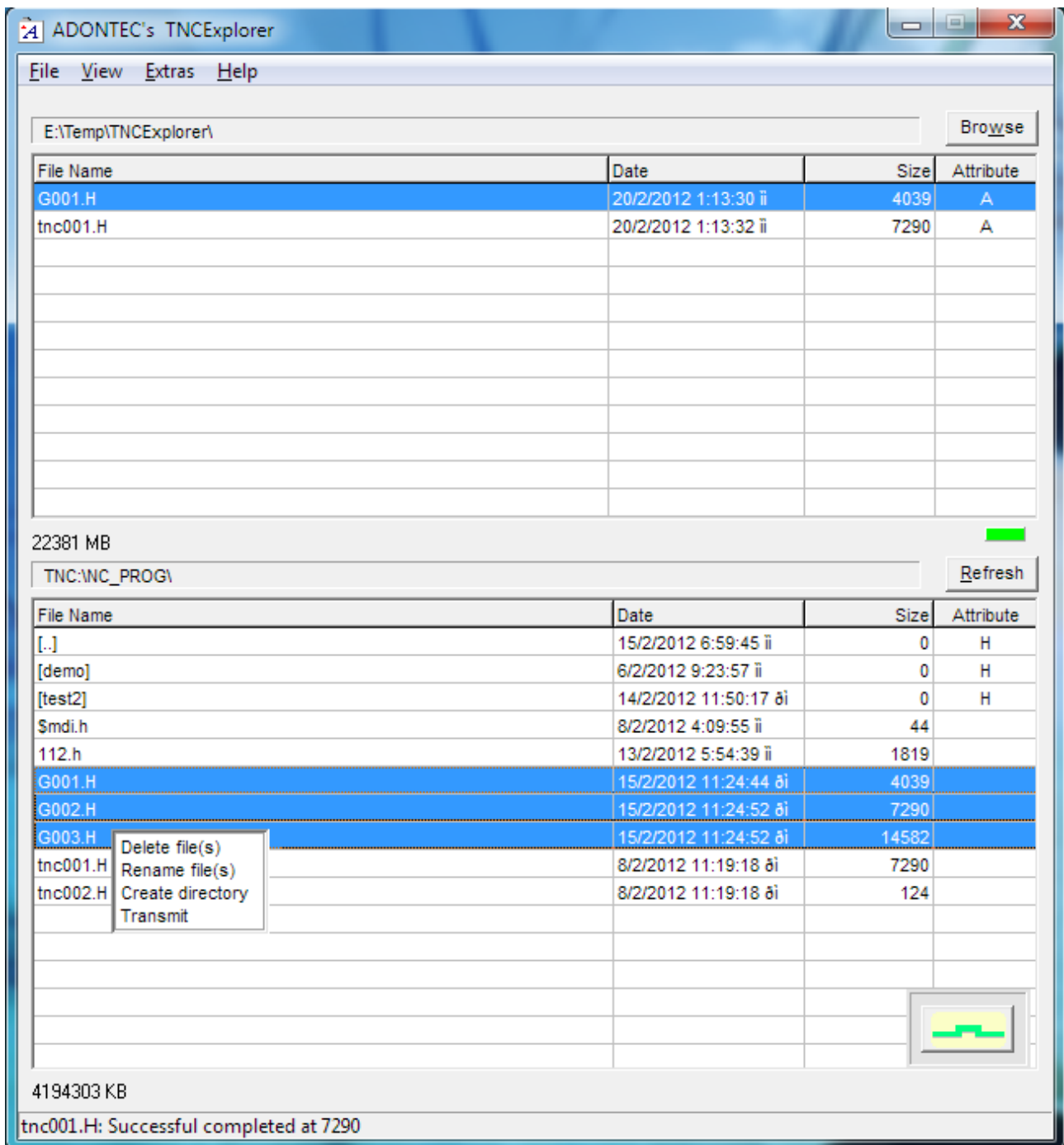
Contacting a Heidenhain TNC, TCP/IP, Connected

Getting TNCVersion... OK [TNC7]
Extended Version:
  TNC-Type: TNC7
  NC-Ver  : 817625 18
  PLC-Ver : Basic-TNC7-U17-0
  Option1 : No version given
  Option2 : 111111111000110

Getting current directory... OK
[TNC:\nc_prog\], Free Space=4.294.967.295,00 Bytes
EXECUTION MODE AUTOMATIC(4)
PROGRAM STATUS IDLE(?)
EXECUTION POINT BlockNr=0;NameSelectedProgram=TNC:\nc_prog\demo\Start_demo.h;
OVERRIDES INFO
  Feed=10000
  Speed=10000
  Rapid=10000

Press [Enter] key to close ...
```


TNC Explorer Application



Browse through the Heidenhain controller directories and transfer files.

The SuperCom Heidenhain Library

Summary

The SuperCom Heidenhain Library enables fast and accurate data acquisition of machine and process data from Heidenhain controlled machines.

The SuperCom Heidenhain Library contains functions to build stable and fast data connections to one or more Heidenhain controllers.

The functions contained in the SuperCom Heidenhain Library support data communication to different Heidenhain controller like TNC7, TNC640, TNC620, iTNC530, TNC426, TNC430, TNC360, TNC320, MANUALplus, DataPilot CP 620, DataPilot CP 640, DataPilot MP 620, DataPilot 4110, DataPilot 4290 etc.

The data communication occur via a serial line or the TCP/IP protocol (Ethernet connection). The connection can be made locally within the factory or over a large distance via Modem, Internet or ISDN connection.

The SuperCom Heidenhain Library enables monitoring Heidenhain controller status, machine states or process data is. Several functions enable fast data acquisition of the machine data. Collect data from the Heidenhain TNC machines (data collection software) or monitor the machine status (Machine Monitoring Software) of multiple machines simultaneously.

Sample programs

Many example programs for C, C++, C#, Delphi, Pascal, Visual Basic, VB net are included with the product.