From the Visual Studio main menu select T&M Toolkit
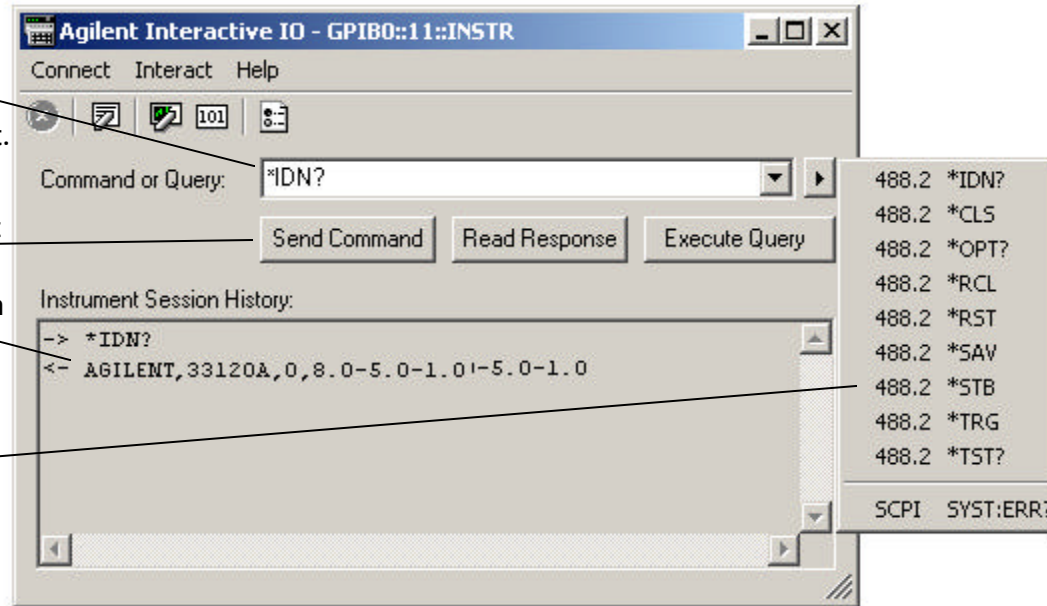
Agilent Interactive IO

Enter a command or query here or select from the command list.

Send, Read, or Execute an instrument command or query.

Review the session history here.

Command list.

Agilent Interactive IO - GPIB0::11::INSTR

Connect   Interact   Help

Command or Query: *IDN?

Send Command   Read Response   Execute Query

Instrument Session History:

-> *IDN?
<- AGILENT,33120A,0,8.0-5.0-1.0!-5.0-1.0

488.2 *IDN?
488.2 *CLS
488.2 *OPT?
488.2 *RCL
488.2 *RST
488.2 *SAV
488.2 *STB
488.2 *TRG
488.2 *TST?

SCPI   SYST:ERR?

Agilent T&M Programmers Toolkit
® Featuring Microsoft® Visual Studio® .NET

*Quick*Start Card

This *Quick*Start Card guides you through a simple introduction to the Agilent T&M Programmers Toolkit for Visual Studio .NET. Agilent T&M Toolkit combines the power of Visual Studio .NET with Agilent's 60 years of measurement expertise to bring design and test engineers easy-to-use software tools and components for instrument control and automation applications.

T&M Toolkit's simple instrument discovery, driver and project wizards, rich class libraries, and graph controls are designed to simplify your job. You can connect and test your instruments and acquire, analyze, and graphically display your data from an Agilent T&M Toolkit environment fully integrated into Visual Studio .NET. Agilent T&M Toolkit is designed with a .NET standard look-and-feel, and a complete online Help system.

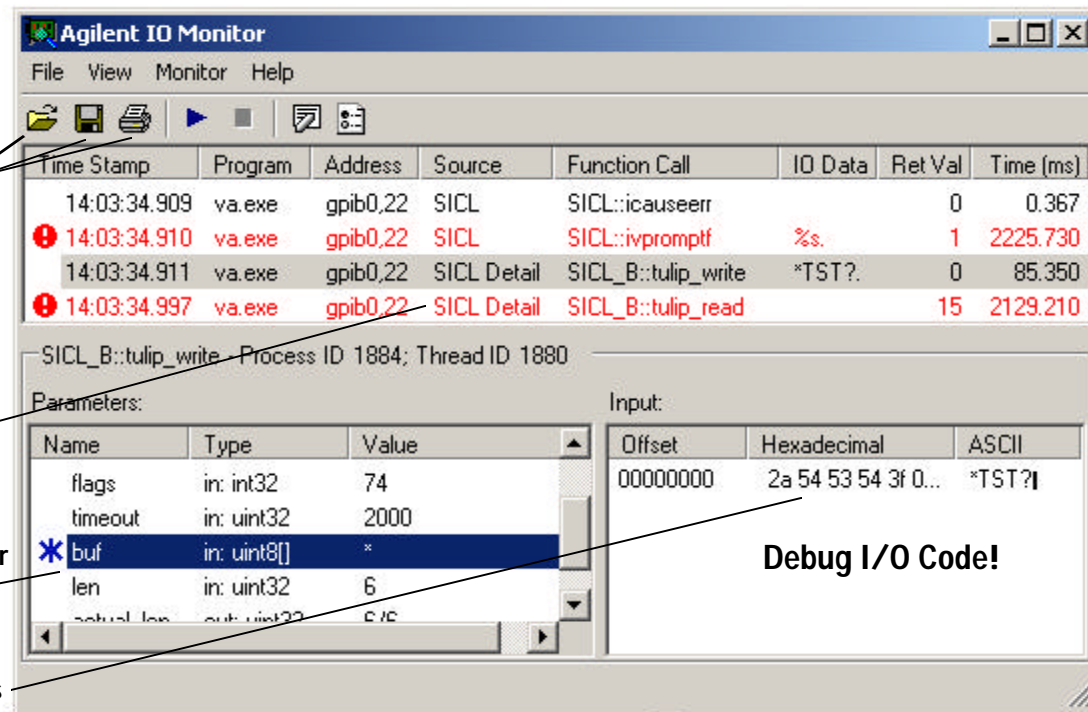**From the Visual Studio main menu select T&M Toolkit**

Agilent IO Monitor

Open, Save, and Print trace results

Agilent IO Monitor

File   View   Monitor   Help

Time Stamp	Program	Address	Source	Function Call	IO Data	Ret Val	Time (ms)
14:03:34.909	va.exe	gpib0,22	SICL	SICL::icauseerr		0	0.367
14:03:34.910	va.exe	gpib0,22	SICL	SICL::ivpromptf	%s.	1	2225.730
14:03:34.911	va.exe	gpib0,22	SICL Detail	SICL_B::tulip_write	*TST?.	0	85.350
14:03:34.997	va.exe	gpib0,22	SICL Detail	SICL_B::tulip_read		15	2129.210

SICL_B::tulip_write - Process ID 1884; Thread ID 1880

Traces I/O layers for VISA, VISA-COM, SICL, and SICL Detail

Parameters:

Name	Type	Value
flags	in: int32	74
timeout	in: uint32	2000
buf	in: uint8[]	*
len	in: uint32	6
actual_len	out: uint32	6/6

Input buffer for the chosen trace

Input:

Offset	Hexadecimal	ASCII
00000000	2a 54 53 54 3f 0...	*TST?!

Debug I/O Code!

Buffer details

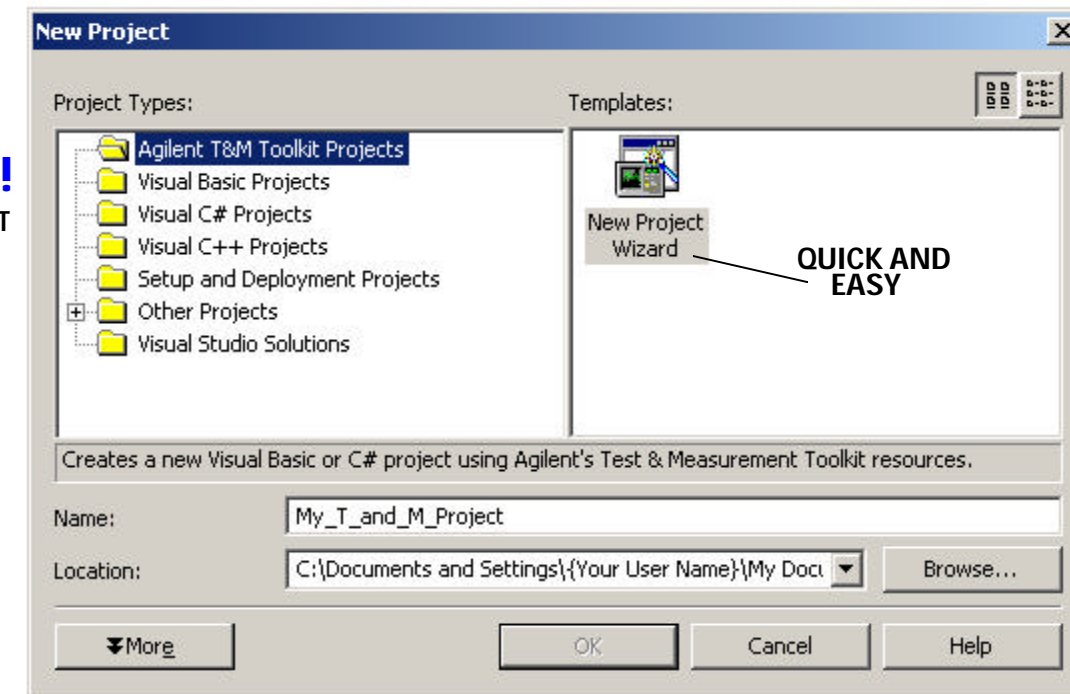**From the Visual Studio main menu select File | New | Project**

The New Project Wizard

START HERE!

Select C# or VB .NET
Create a:
  Windows App
  Console App
  Class Library or a
  Windows Control
    Library
Automatically add
  class libraries
  to your project

New Project

Project Types:

- Agilent T&M Toolkit Projects
- Visual Basic Projects
- Visual C# Projects
- Visual C++ Projects
- Setup and Deployment Projects
- Other Projects
- Visual Studio Solutions

Templates:

New Project Wizard

QUICK AND EASY

Creates a new Visual Basic or C# project using Agilent's Test & Measurement Toolkit resources.

Name: My_T_and_M_Project

Location: C:\Documents and Settings\{Your User Name}\My Docu   Browse...

More   OK   Cancel   Help

Agilent T&M Programmers Toolkit

From the main menu, use T&M Toolkit tools by selecting the T&M Toolkit menu item or by clicking a T&M Toolkit icon.

Start Instrument Explorer and find instruments connected to your PC. Configure instrument I/O sessions. Drag and drop instruments into your code.

Select the Agilent T&M Programmers Toolkit start page. Get quick access to the information you need to start a T&M project and find out about new, helpful Agilent services.

T&M Toolkit Help is fully integrated into Visual Studio Help. All of these class libraries have online help, there are tutorials, sample programs, and the F1 key provides help with a single keystroke.

A Form Designer Toolbox tab provides access to the 2D Graphics Objects

The Function Waveform Generator creates virtual waveforms for demonstration purposes

Notice the new Visual Studio .NET feature, Dynamic Help. Turn this on from the main menu, Help | Dynamic Help.

TMToolkit - Microsoft Visual Basic .NET [design] - Start Page

File   Edit   View   Project   Build   Debug   Tools   T&M Toolkit   Window   Help

T&M Toolkit menu:
- Getting Started
- Instrument Explorer
- Interactive IO
- IO Monitor
- Driver Wrapper Wizard
- VEE Wrapper Wizard
- Help

FFT

Agilent Instrument Explorer

- TST2DELL Master Configuration *
  - ASRL2
  - GPIB6 (VISA LAN Client @portal
    - DMM (@7)
    - Function Generator (@10)

Instrument Details

Name: DMM
Description:
Resource Name: GPIB6::7::INSTR
Connection Status: Identified successfully
Device Name: hpib,7
Hostname: portal6.lvld.agilent.com
IDN Response:
AGILENT,34401B,0,A.01.35
IP Address: 156.140.112.112
Interface Protocol: SICL-LAN

Get Started
What's New
Online Community
Headlines
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XML Web Services
Web Hosting

Agilent Test and Measurement Toolkit

Getting Started | Samples | Agilent Dev

Agilent Technologies

Agilent T&M Programmers Toolkit

Contents

Filtered by:
(no filter)

- Interacting with Devices
- Using Agilent T&M Toolkit Utilities
- Using the 2D Graph Objects
- Calling Agilent VEE Pro
- TMFramework Reference
  - Agilent.TMFramework
  - Agilent.TMFramework.DataAnalysis
  - Agilent.TMFramework.DataVisualization
  - Agilent.TMFramework.InstrumentDriverInterop
  - Agilent.TMFramework.InstrumentDriverInterop.Des
  - Agilent.TMFramework.InstrumentIO
  - Agilent.TMFramework.InstrumentIO.Configuration
  - Agilent.TMFramework.VeeInterop
  - Agilent.TMFramework.VeeInterop.Design

Toolbox

T&M Toolkit
- Pointer
- FunctionWaveformGenerator
- ComplexGraph
- MagnitudeSpectrumGraph
- PhaseSpectrumGraph
- StripChart
- WaveformGraph
- XYGraph
- YGraph

Data
Components
Windows Forms
General

Form1.vb [Design]*

Form1

WaveformGraph

100.0 V
75.00 V
50.00 V
25.00 V
0.000 V
-25.00 V
-50.00 V
-75.00 V
-100.0 V

YAxis

0.000 s   20.00 s   40.00 s   60.00 s   80.00 s   100.0 s
XAxis

OK

Dynamic Help

Help
- Toolbox
- Managing Tabs and Items in the Toolbox
- Windows Forms Designer
- Windows Forms Controls by Function
- Form Members
- Form Class
- Changing the Borders of Windows Forms
- Windows Forms Layout Options
- Creating Transparent Windows Forms
- Keeping a Windows Form on Top
- TMFramework.FunctionWaveformGenerator

Samples
- Windows Forms Sample Abstracts for Visual Basic
- Visual Studio Samples

Ready