

G# Framework

Add-on toolkit for reference based object-oriented support

The G# Framework is an add-on toolkit for LabVIEW that adds reference based object-oriented support. It takes advantage of the new data value reference structure in LabVIEW 2009 together with the native classes and will add a full object-oriented support with excellent performance. This is the new generation of object-oriented support that makes LabVIEW as powerful as any object-oriented language.

The G# Framework is a National Instrument Compatible with LabVIEW Gold product within the LabVIEW Tools Network. G# Framework is a registered trademark of AddQ Consulting.

What Is Unique About G#?

- A common root object for all classes, called G#Object
- Garbage Collector, objects don't need to be destroyed explicitly
- Interface support, instead of supporting multiple inheritance
- Abstract methods and abstract classes
- Include support to keep objects alive and avoid LabVIEW Garbage collection
- Use native LabVIEW objects in combination with the new data value reference in LV2009
- Support for static classes and class attributes
- Named objects with user counter
- Serialization of objects
- G# events that could be traced
- Desktop Trace Execution Toolkit events support
- Powerful debugger option with possibility to probe attributes, log events and also offer an active debug possibility

Toolkit Contents

G# - this is the actual LabVIEW code that implements the reference based object-oriented support to LabVIEW. This code is open source code per the terms of BSD-license.

Including:

- **G#Object** - the root object that all classes inherits from
- **G#Interface** - the root interface that all interfaces inherit from
- **G#Templates** - class templates that are copied to create new classes

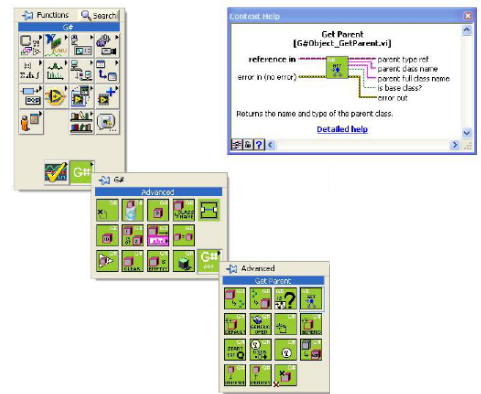
G# Debugger - a powerful object debugger tool, used for tracing and debugging objects when executing the code. This code is open source code per the terms of BSD-license.

G# IDE (Integrated Development Environment) - a plug-in to the LabVIEW Project Environment and makes it easy to create and maintain the G# code. The IDE is not open source and copyright by AddQ Consulting. The G# IDE is not necessary when executing the code.

The G# Framework is free and requires no license. You may install the G# IDE with as many users and computers as you like.

About AddQ

AddQ Consulting is one of the leading providers of high-value-added Test and Measurement, Testing and Quality Assurance Services in Sweden. AddQ offers specialist consultants in all areas of test and measurement, testing and quality assurance. Business Driven Services is AddQ's leading star.



Supported LabVIEW Versions

- LabVIEW 2009 Full Development or higher

Supported Operating Systems

- Windows XP/Vista/7
- Red Hat Enterprise Linux WS 4 or later
- openSUSE 10.3 or later

Download

- Visit: www.addq.se/gsharp

Support

- For support issues, please contact: support@addq.se



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