Subject: LVOOP - HGF Base Class Library and Design Patterns
Posted by Brand on Wed, 11 Jun 2008 11:20:30 GMT
View Forum Message <> Reply to Message

Object oriented programming became available in LabVIEW with version 8.2.

I started a project to create a LVOOP base class library that can serve as a base for LVOOP projects. HGF is an abbreviation for Helmholz, GSI, FAIR.

Main focus of this library
- How to deal with LabVIEW objects as entities?
---> Factory
------> Named objects
------> Constructor and destructor
- How to prevent unintended object wire forks?
---> Reference, Singleton
---> Object Manager
---> Functional Global Variable & Visitor
- How to deal with Agents?
---> Separation of passive object data and active threads –> Thread Pool
---> Event handling
- How to overcome some technical restrictions?
---> Missing class information
---> Missing overloading -> Variant
---> Missing Multiple Inheritance -> Aggregation
---> Missing Interfaces -> Delegation

A first Version is available. The sources are published with GNU Public License (GPL) and can be downloaded here:
http://wiki.gsi.de/cgi-bin/view/NIUser/HGFBaseClassLibrary

Maybe you like it.
Regards Holger