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Subject: LVOOP - HGF Base Class Library and Design Patterns

Posted by [Brand](#) on Wed, 11 Jun 2008 11:20:30 GMT

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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 Helmholtz, 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

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