



GRIFFIN OPEN SYSTEMS

Griffin Toolkit Overview

Enhanced Consulting Services to Industrial Clients with
the Griffin Toolkit

How the Griffin Toolkit Can Help You

If you provide consulting services to owners of industrial processes, you're probably looking for the simplest and quickest ways to reduce costs, improve reliability and efficiency, and generally optimize and add intelligence to a process. You might also have proprietary software, calculations, or other features that could benefit from packaging in a framework purpose-built for interactivity with industrial control systems. If this sounds familiar, the Griffin Toolkit can probably help you provide more value to your clients on a quicker implementation cycle.

The Griffin Vision

We want Griffin to become your platform for delivering consulting services with added value from closed loop Applied AI for industrial clients. We've been using the Griffin Toolkit as our platform for consulting for years, and we're ready to share the power with you! A consistent and capable no-code platform for making process modifications is a huge benefit, and once you're talking with the DCS or PLC you will be amazed at how quickly novel applications and optimization strategies will emerge. Once you create some applications, it's easy to use them as a template for other similar processes. You may find licensing the logic templates a value additional revenue stream. Neural network modeling and evolutionary optimization are just some of the powerful tools included with Griffin, and with all this at your fingertips, you'll finally be free to fully capitalize on your process knowledge to create value for your clients while expanding your business opportunities.

Batteries Included

The Griffin Toolkit comes with an array of highly useful components for control and optimization. There are many tools available, without the number of options being overwhelming. A few basic components will comprise the majority of application logic (I/O, loops, conditionals, calculators, arrays/matrices, etc.), typically with a few models or other more sophisticated control components mixed in. Models, such as compound neural networks, or regression model, are straightforward to create and easily integrated into application logic for use in real-time control. Models are easily mixed in hybrid models or used in multiple fashions within an application. Griffin also includes the Optimizer component, which quickly feeds thousands of manipulated variable combinations into a model in order to find the optimal inputs according to user-defined criteria. All Griffin components are configurable through our graphics-based interface with no coding required (although there are some areas where custom code is optional).

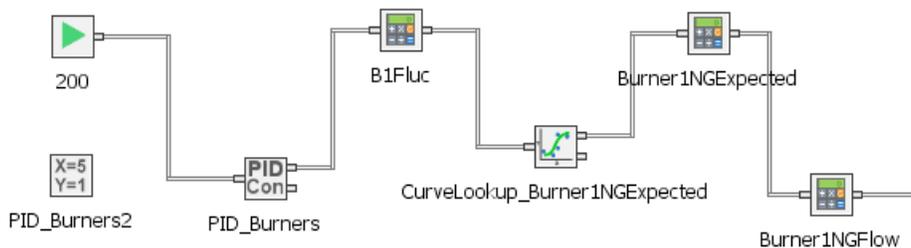
Features are thoroughly documented and "Help" buttons are distributed throughout the programming environment, so help is never far away. We also have extensive video tutorials available on our website and YouTube channel and free trials of the software, so you can self-learn Griffin at your own pace without spending an extra dollar.

Genetic Trainer

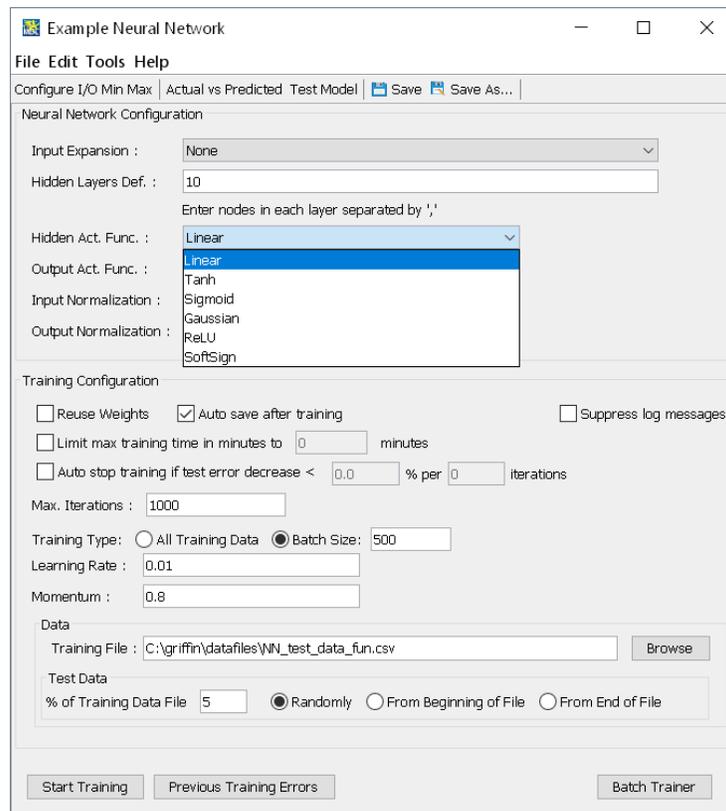
Neural networks are common AI tool for handling complex data and data which evolves over time. Creating and using neural networks in Griffin is easy, but designing a robust neural network architecture for your problem is still difficult. That's why we created the **Genetic Trainer**, a special tool in Griffin that allows users to automatically search thousands of different neural architectures for the one that provides the best performance according to their criteria. After that, it's simply a matter of clicking "Save" and dropping the optimized model into your runtime application. Like all of our tools, The Genetic Trainer relatively simple to use, and after a quick video tutorial you'll be ready to optimize your neural net! Retraining a model is as simple as clicking and plopping, and the model into a retrain block into the logic workspace.

Inside the Griffin Toolkit

The Griffin Toolkit is a No Code control application development environment designed for engineers and process experts who are not programmers by trade. It expressly built for industrial process improvement. Applications are created in our graphical programming environment, where Griffin components are connected together to form logic strings:



Our simple user interface is designed for rapid prototyping and implementation. The underlying software is built for speed combined with class-leading uptime and reliability. It's easy to get up and running with the Griffin Toolkit, and the sky is the limit as you explore new ways to create improvements to your processes.



Extensible and Modifiable

If you have a custom calculation or other technology that can be encapsulated in Java (or any program object, including that old Fortran code one may have the shelf), you can create your own Griffin component and add it to the GUI. You can then deploy your modified Griffin system to clients (who will need their own Griffin license), and enjoy the benefits of the Griffin programming environment while linking your technology with the process. We can provide source code samples for custom components for interested service providers. Custom models can be created this way as well. Another powerful option is to incorporate Griffin into your existing software suite under your branding. This simply requires that you and any clients running Griffin, whether visibly or not, to have the appropriate Griffin license.

License Options

To help get you started, we created several affordable license options, as well as a free trial license. To develop and test applications in Griffin, you need a development license, which includes file-based I/O. To run a Griffin app that communicates with external devices (PI, OPC, Modbus, etc.) you will need to upgrade your license to include the Griffin Run-Time Engine. Modeling and the Genetic Trainer are not available in the base license, so a separate license upgrade is required to activate those features.

Please see our explore package under Try & Buy for more details. ([link to that page](#)).

Start Learning Griffin Today!

For more information about the Griffin Toolkit, please visit www.griffinopensystems.com, or send us a message at info@griffinopensystems.com.