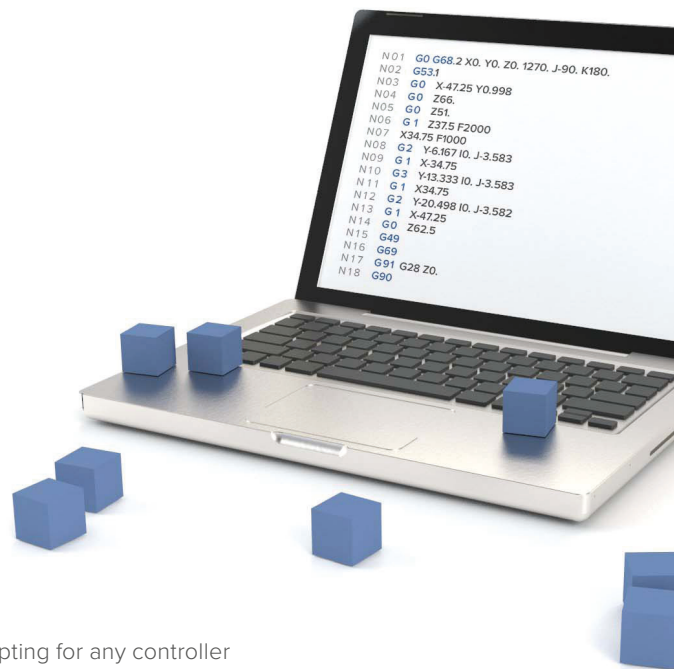




Post Processor Framework Component

ModuleWorks Post Processor Framework (PPF) uses a custom post script to generate NC-Code from the output of the ModuleWorks kinematic solver (MultiXPost) or from any other source. PPF runs on a network server and on any operating system with python support.

The Post Processor Framework (PPF) lets you script the NC-output for any custom machine tool or robot and stream it directly to that device. PPF uses ModuleWorks MultiXPost as a front-end component to resolve any machine kinematic. Alternatively, you can use the API to integrate the software into your own toolpath environment, independent of the ModuleWorks toolpath calculation.



```
73 Y-72.500000 Z-19.7
46 Y-72.500000 Z-19.7
19 Y-72.500000 Z-19.8
91 Y-72.500000 Z-19.8
64 Y-72.500000 Z-19.9
36 Y-72.500000 Z-19.9
09 Y-72.500000 Z-20.0
82 Y-72.500000 Z-20.0
54 Y-72.500000 Z-20.1
27 Y-72.500000 Z-20.1
00 Y-72.500000 Z-20.2
```

NC-Code

Key Benefits

- Flexible and customized scripting for any controller
- Fast NC-code generation, up to 50,000 moves per second
- Open kinematics format definition
- API for easy integration into existing CAM solutions
- API documentation with descriptions of CI commands
- Available as a cloud server for multiple post processing
- NC-Code streaming of over 100 million toolpath points



Controller

Custom output

- ISO-4343
- Sinumerik
- Fanuc
- Heidenhain
- MWCL (shows supported options for simulation)
- Binary data / APT
- and more

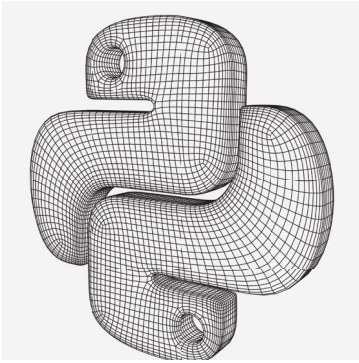


Flexible logic

Flexible logic

- Output NC-commands prior to and after an operation
- Output NC-commands at specific positions in the toolpath
- Add NC-commands if specific markers (e.g. layer start/end, slice start/end) are present in the toolpath moves.

Fact Sheet: Post Processor Framework Component



Python code language

Python scripts

Customize the post processor with your own Python scripts:

- Force the Machine Simulator to use different axis values or return axis values.
- Simulate complex machine kinematics that are not supported in the current kinematic tree.
- Open source post-processor writing
- Full debugging capability



Documentation

API and user documentation

Full PPF documentation for users and developers:

- Sample posts
- Tutorials and concepts
- PPF architecture and versioning
- Descriptions of the CL commands
- C++ integration
- .NET integration

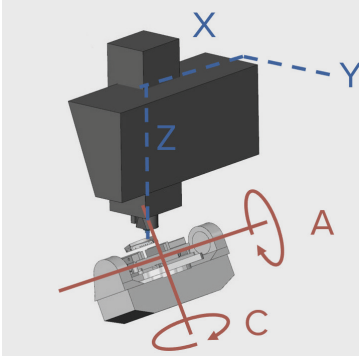


Illustration of a Multiaxis machine

MultiXPost

Universal kinematics solver for inverse and direct machine kinematics that converts MW toolpath objects to the machine tool coordinate system:

- Open XML format for machine definition
- Use the kinematics model of the machine to refine the kinematics solution
- Fast kinematics solver: >50K moves/sec
- Supports 2-6 axis machines
- Supports 6-axis robots, rail tables, grippers etc.

For information on other CAD/CAM components, including simulation and 5-axis toolpaths, visit:
www.moduleworks.com



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