

# FastPID

A PID controlled implemented using fixed-point arithmetic.

## Author

Mike Matera (/authors/mike-matera)

## Website

<https://github.com/mike-matera/FastPID> (<https://github.com/mike-matera/FastPID>)

## Category

Signal Input/Output (/categories/signal-input-output)

## License

LGPL 2.1 (<https://choosealicense.com/licenses/lgpl-2.1/>)

## Library Type

Contributed

## Architectures

Any

This is a high-quality, high-precision PID controller that uses a fixed-point pipeline. Conversion from floating point coefficients to integers is done automatically. This implementation is suitable for AVR and other processors where floating point math is slow.

## Downloads

Filename	Release Date	File Size
<a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.3.1.zip">FastPID-1.3.1.zip</a> ( <a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.3.1.zip">https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.3.1.zip</a> )	<a href="https://github.com/mike-matera/FastPID/commits/v1.3.1">2018-07-15</a> ( <a href="https://github.com/mike-matera/FastPID/commits/v1.3.1">https://github.com/mike-matera/FastPID/commits/v1.3.1</a> )	192.98 KiB
<a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.3.0.zip">FastPID-1.3.0.zip</a> ( <a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.3.0.zip">https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.3.0.zip</a> )	<a href="https://github.com/mike-matera/FastPID/commits/v1.3.0">2018-05-31</a> ( <a href="https://github.com/mike-matera/FastPID/commits/v1.3.0">https://github.com/mike-matera/FastPID/commits/v1.3.0</a> )	192.98 KiB
<a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.2.0.zip">FastPID-1.2.0.zip</a> ( <a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.2.0.zip">https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.2.0.zip</a> )	<a href="https://github.com/mike-matera/FastPID/commits/v1.2.0">2018-05-08</a> ( <a href="https://github.com/mike-matera/FastPID/commits/v1.2.0">https://github.com/mike-matera/FastPID/commits/v1.2.0</a> )	192.15 KiB
<a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.0.0.zip">FastPID-1.0.0.zip</a> ( <a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.0.0.zip">https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-1.0.0.zip</a> )	<a href="https://github.com/mike-matera/FastPID/commits/v1.0.0">2018-04-16</a> ( <a href="https://github.com/mike-matera/FastPID/commits/v1.0.0">https://github.com/mike-matera/FastPID/commits/v1.0.0</a> )	191.04 KiB
<a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-0.1.2.zip">FastPID-0.1.2.zip</a> ( <a href="https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-0.1.2.zip">https://downloads.arduino.cc/libraries/github.com/mike-matera/FastPID-0.1.2.zip</a> )	<a href="https://github.com/mike-matera/FastPID/commits/v0.1.2">2018-04-13</a> ( <a href="https://github.com/mike-matera/FastPID/commits/v0.1.2">https://github.com/mike-matera/FastPID/commits/v0.1.2</a> )	191.04 KiB

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