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com.kauailabs.navx.ftc

## Class navXPIDController.PIDResult

* java.lang.Object
  + com.kauailabs.navx.ftc.navXPIDController.PIDResult
* Enclosing class: [navXPIDController](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.html)  
    
  public static class navXPIDController.PIDResult  
  extends java.lang.Object  
  The PIDResult class encapsulates the data used by the navXPIDController to communicate current state to a client of the navXPIDController. The client creates the instance of the PIDResult, and continually provides it to the navxPIDController's waitForNewUpdate() and isNewDataAvailable() methods, depending upon whether the client wishes to block (wait) for new updates, or periodically poll to determine when new data is available.

### Field SummaryFields

|  |  |
| --- | --- |
| * + Modifier and Type | * + Field and Description |
| * + boolean | * + [on\_target](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html#on_target) |
| * + double | * + [output](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html#output) |
| * + long | * + [timestamp](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html#timestamp) |

### Constructor SummaryConstructors

|  |
| --- |
| * + Constructor and Description |
| * + [PIDResult](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html#PIDResult--)() |

### Method SummaryAll Methods Instance Methods Concrete Methods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + double | * + [getOutput](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html#getOutput--)() Returns the output value calculated by the navXPIDController which corresponds to the most recent input data sample. |
| * + long | * + [getTimestamp](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html#getTimestamp--)() Returns the timestamp of the last data sample processed by the navXPIDController. |
| * + boolean | * + [isOnTarget](http://docs.google.com/com/kauailabs/navx/ftc/navXPIDController.PIDResult.html#isOnTarget--)() Returns true if the navXPIDController indicated that it is currently "on target" as defined by the configured tolerances and the most recent input data sample. |

### Methods inherited from class java.lang.Objectclone, equals, finalize, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Field Detail

#### output public double output

#### timestamp public long timestamp

#### on\_target public boolean on\_target

### Constructor Detail

#### PIDResult public PIDResult()

### Method Detail

#### getTimestamp public long getTimestamp() Returns the timestamp of the last data sample processed by the navXPIDController.

#### isOnTarget public boolean isOnTarget() Returns true if the navXPIDController indicated that it is currently "on target" as defined by the configured tolerances and the most recent input data sample.

#### getOutput public double getOutput() Returns the output value calculated by the navXPIDController which corresponds to the most recent input data sample.

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