

Tutorials 4.0 Events

De Wiki

Aller à : [navigation](#), [rechercher](#)

[User Manual 4.8 Events detection: Presentation](#) > [Tutorials 4.0 Vehicle](#) > [Spécial:Suivi des liens/Tutorials 4.0 Events](#) > [Spécial:Pages liées/Utilisateur:3.145.23.123](#) > [Tutorials 4.0 Events](#)

What is an Event ?

An [EventDetector](#) corresponds to an object that will allow to a propagator to determine when this event will occurred.

PATRIUS will already propose a great amount of predefined events (anomaly, **AOL**, altitude, eclipse, ...). These events may be called with "by default" values or may be customized by defining:

- its maximum check interval (in seconds)
- the threshold value below which the convergence is acquired (in seconds)
- the fact that the event will be checked several time or not.

The following code example shows how to define an **AOL** detector with all these possibilities.

Code example: [AOL event detector](#)

Using AbstractDetector class

If you have not found a predefined event detector into the **PATRIUS** list, you can build yourself you own detector using the [AbstractDetector](#) class.

In such a case, you will have to redefined:

- [eventOccurred\(\)](#) method ; when the event has occurred, this method will be called by the propagator and will return the appropriate action
- [g\(\)](#) method ; this method will return a double value which trigger the event when it will reach zero (+/- the threshold)
- [shouldBeRemoved\(\)](#) method

Code example: [Event using AbstractDetector class](#)

Using EventDetector interface

if you want to customize deeper your event detector, rather than to use AbstractDetector class, you may use EventDetector interface.

In such a case, you will have to redefined:

- [eventOccurred\(\)](#) method ; when the event has occurred, this method will be called by the propagator and will return the appropriate action
- [getMaxCheckInterval\(\)](#) method ; this method will return a double value which trigger the event when it will reach zero (+/- the threshold)
- [getMaxIterationCount\(\)](#) method
- [getSlopeSelection\(\)](#) method

- [getThreshold\(\)](#) method
- [init\(\)](#) method
- [resetState\(\)](#) method
- [shouldBeRemoved\(\)](#) method

Code example: [Event using EventDetector interface](#)

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[Catégorie](#) :

- [Tutorials 4.0](#)

Menu de navigation

Outils personnels

- [13.58.15.223](#)
- [Discussion avec cette adresse IP](#)
- [Créer un compte](#)
- [Se connecter](#)

Espaces de noms

- [Page](#)
- [Discussion](#)

Variantes

Affichages

- [Lire](#)
- [Voir le texte source](#)
- [Historique](#)
- [Exporter en PDF](#)

Plus

Rechercher

PATRIUS

- [Welcome](#)

Evolutions

- [Main differences between V4.13 and V4.12](#)
- [Main differences between V4.12 and V4.11](#)
- [Main differences between V4.11 and V4.10](#)
- [Main differences between V4.10 and V4.9](#)
- [Main differences between V4.9 and V4.8](#)
- [Main differences between V4.8 and V4.7](#)
- [Main differences between V4.7 and V4.6.1](#)
- [Main differences between V4.6.1 and V4.5.1](#)
- [Main differences between V4.5.1 and V4.4](#)
- [Main differences between V4.4 and V4.3](#)
- [Main differences between V4.3 and V4.2](#)
- [Main differences between V4.2 and V4.1.1](#)
- [Main differences between V4.1.1 and V4.1](#)
- [Main differences between V4.1 and V4.0](#)
- [Main differences between V4.0 and V3.4.1](#)

User Manual

- [User Manual 4.13](#)
- [User Manual 4.12](#)
- [User Manual 4.11](#)
- [User Manual 4.10](#)
- [User Manual 4.9](#)
- [User Manual 4.8](#)
- [User Manual 4.7](#)
- [User Manual 4.6.1](#)
- [User Manual 4.5.1](#)
- [User Manual 4.4](#)
- [User Manual 4.3](#)
- [User Manual 4.2](#)
- [User Manual 4.1](#)
- [User Manual 4.0](#)
- [User Manual 3.4.1](#)
- [User Manual 3.3](#)

Tutorials

- [Tutorials 4.5.1](#)
- [Tutorials 4.4](#)
- [Tutorials 4.1](#)
- [Tutorials 4.0](#)

Links

- [CNES freeware server](#)

Navigation

- [Accueil](#)
- [Modifications récentes](#)
- [Page au hasard](#)
- [Aide](#)

Outils

- [Pages liées](#)
- [Suivi des pages liées](#)
- [Pages spéciales](#)
- [Adresse de cette version](#)
- [Information sur la page](#)
- [Citer cette page](#)
- Dernière modification de cette page le 27 mars 2018 à 14:01.
- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)
- 