

EventUsingEventDetector

De Wiki

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

```
public class EventUsingEventDetector implements EventDetector {

    private static final long serialVersionUID = 1L;
    private final AbsoluteDate date;

    /**
     * Constructor
     * @param date absolute date when event will occurred.
     */
    public EventUsingEventDetector( final AbsoluteDate date ) {
        this.date = date;
    }

    public Action eventOccurred(SpacecraftState s, boolean increasing,
        boolean forward) throws PatriusException {
        return EventDetector.Action.STOP;
    }

    public double g(SpacecraftState s) throws PatriusException {
        return s.getDate().durationFrom(date);
    }

    public double getMaxCheckInterval() {
        return AbstractDetector.DEFAULT_MAXCHECK;
    }

    public int getMaxIterationCount() {
        return 20;
    }

    public int getSlopeSelection() {
        // TODO Auto-generated method stub
        return AbstractDetector.INCREASING_DECREASING;
    }

    public double getThreshold() {
        return AbstractDetector.DEFAULT_THRESHOLD;
    }

    public void init(SpacecraftState s0, AbsoluteDate t) {
        // Nothing specific to do ...
    }

    public SpacecraftState resetState(SpacecraftState oldState)
```

```

        throws PatriusException {
            return oldState;
        }

    public boolean shouldBeRemoved() {
        return false;
    }

    /**
     * @param args
     * @throws OrekitException
     */
    public static void main(String[] args) throws PatriusException {

        // Patrius Dataset initialization (needed for example to get the UTC
time)
        PatriusDataset.addResourcesFromPatriusDataset() ;

        // Recovery of the UTC time scale using a "factory" (not to duplicate
such unique object)
        final TimeScale TUC = TimeScalesFactory.getUTC();

        // Date of the orbit (given in UTC time scale)
        final AbsoluteDate date = new AbsoluteDate("2010-01-01T12:00:00.000",
TUC);

        EventUsingEventDetector event = new EventUsingEventDetector(date);

        System.out.println("Max check interval of the event: " +
event.getMaxCheckInterval() + " s");
        System.out.println("Threshold of the event: " + event.getThreshold()
+ " s");
        System.out.println("Remove the event after occurring: " +
event.shouldBeRemoved());
    }
}

```

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Menu de navigation

Outils personnels

- [18.223.237.218](#)
- [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 V4.14 and V4.13](#)
- [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 4.14](#)
- [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 4.14](#)
- [Tutorials 4.13.5](#)
- [Tutorials 4.12.1](#)
- [Tutorials 4.8.1](#)
- [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](#)

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- [Politique de confidentialité](#)
- [À propos de Wiki](#)
- [Avertissements](#)

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