

# EventUsingAbstractDetector 4.1

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```
public class EventUsingAbstractDetector extends AbstractDetector {

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

    /**
     * Constructor
     * @param date absolute date when event will occurred.
     */
    protected EventUsingAbstractDetector( final AbsoluteDate date ) {
        super(AbstractDetector.DEFAULT_MAXCHECK,
AbstractDetector.DEFAULT_THRESHOLD);
        this.date = date;
    }

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

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

    @Override
    public boolean shouldBeRemoved() {
        return false;
    }

    @Override
    public EventDetector copy() {
        final AbsoluteDate newDate = new AbsoluteDate(date, 0.);
        return new EventUsingEventDetector(newDate);
    }

    /**
     * @param args
     * @throws PatriusException
     */
    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);

    EventUsingAbstractDetector event = new
EventUsingAbstractDetector(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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