

Aggregate Example

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Available as of Camel 2.3

About

This example demonstrates the new overhauled [Aggregator](#) EIP in Apache Camel 2.3. The example is focused on the persistence support, which means the aggregated messages is stored in a persistent file storage using the new [HawtDB](#) component.

How to run

You simply run it using the following maven goal: `mvn camel:run`

How it works

The example is an interactive example where it prompt on the console for you to enter a number and press ENTER. The numbers you enter will then be aggregated and persisted. That means you can at any time hit `ctrl + c` to shutdown Camel. Then you should be able to start the example again and resume where you left.

When you want to *complete* the aggregation you can enter `STOP` as input and Camel will show you the result, which is the sum of all the numbers entered.

The persistent datastore is located in the `data/hawtodb.dat` file. Its automatic created the first time.

Example

For example we start the example for the first time using `mvn camel:run` and then we enter the two numbers 5 and 7 before we shutdown using `ctrl + c`. The relevant console output:

```
[pache.camel.spring.Main.main()] DefaultCamelContext          INFO  Apache Camel
2.3-SNAPSHOT (CamelContext:camel) started
Enter a number to be added (use STOP to end, and ctrl c to shutdown Camel): 5
Enter a number to be added (use STOP to end, and ctrl c to shutdown Camel): 7
Enter a number to be added (use STOP to end, and ctrl c to shutdown Camel): ^C[
Thread-2] Main$HangupInterceptor          INFO  Received hang up - stopping the main
instance.
[          Thread-2] MainSupport          INFO  Apache Camel
2.3-SNAPSHOT stopping
```

Now we start the example again using `mvn camel:run` and enter the number 3 and then enter `STOP` to see the result. As expected the result is $5+7+3 = 15$ as outputted on the console. As you can see the persistence of the aggregated messages ensures we could continue where we stopped.

```
[pache.camel.spring.Main.main()] DefaultCamelContext          INFO  Apache Camel
2.3-SNAPSHOT (CamelContext:camel) started
Enter a number to be added (use STOP to end, and ctrl c to shutdown Camel): 3
Enter a number to be added (use STOP to end, and ctrl c to shutdown Camel): STOP
The result is: 15
Enter a number to be added (use STOP to end, and ctrl c to shutdown Camel):
```

Using Aggregator

The example is configured as follows in Spring XML.

And it has a `AggregationStrategy` to sum the numbers which is done in Java code as:

See Also

- [Examples](#)
- [Aggregator](#)
- [HawtDB](#)
- [LevelDB](#)