

Systemy Rozproszone

Laboratorium nr 4 - Akka

Raport

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Zadania wykonano na systemie Windows 10, korzystano z Javy w wersji 11.0.9 2020-10-20.

1. Zadanie 1.

Output strategii restart:

```
Z1 main: actor system ready
actorDivide: operation count = 1
actorDivide: operation count = 2
actorMultiply: operation count = 1
actorMultiply: operation count = 2
[actorMath-akka.actor.default-dispatcher-3] ERROR akka.actor.typed.Behavior$ - Supervisor RestartSupervisor saw failure: / by zero
java.lang.ArithmeticException Create breakpoint : / by zero
    at Z1.MathActorDivide.onMathCommandDivide(MathActorDivide.java:34)
    at akka.actor.typed.javadsl.BuiltReceive.receive(ReceiveBuilder.scala:213)
    at akka.actor.typed.javadsl.BuiltReceive.receiveMessage(ReceiveBuilder.scala:204)
    at akka.actor.typed.javadsl.Receive.receive(Receive.scala:53)
    at akka.actor.typed.javadsl.AbstractBehavior.receive(AbstractBehavior.scala:64)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.InterceptorImpl$$anon$2.apply(InterceptorImpl.scala:57)
    at akka.actor.typed.internal.RestartSupervisor.aroundReceive(Supervision.scala:268)
    at akka.actor.typed.internal.InterceptorImpl.receive(InterceptorImpl.scala:85)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.adapter.ActorAdapter.handleMessage(ActorAdapter.scala:131)
    at akka.actor.typed.internal.adapter.ActorAdapter.aroundReceive(ActorAdapter.scala:107)
    at akka.actor.ActorCell.receiveMessage(ActorCell.scala:579)
    at akka.actor.ActorCell.invoke(ActorCell.scala:547)
    at akka.dispatch.Mailbox.processMailbox(Mailbox.scala:270)
    at akka.dispatch.Mailbox.run(Mailbox.scala:231)
    at akka.dispatch.Mailbox.exec(Mailbox.scala:243) <5 internal calls>
Z1 main: sending second package of messages
Z1 main: messages send
actorMultiply: operation count = 3
actorDivide: operation count = 1
actorMultiply: operation count = 4
actorDivide: operation count = 2
```

Output strategii stop:

```

Z1 main: actor system ready
actorDivide: operation count = 1
actorMultiply: operation count = 1
actorDivide: operation count = 2
actorMultiply: operation count = 2
[actorMath-akka.actor.default-dispatcher-6] ERROR akka.actor.typed.Behavior$ - Supervisor StopSupervisor saw failure: / by zero
java.lang.ArithmeticException Create breakpoint : / by zero
    at Z1.MathActorDivide.onMathCommandDivide(MathActorDivide.java:34)
    at akka.actor.typed.javadsL.BuiltReceive.receive(ReceiveBuilder.scala:213)
    at akka.actor.typed.javadsL.BuiltReceive.receiveMessage(ReceiveBuilder.scala:204)
    at akka.actor.typed.javadsL.Receive.receive(Receive.scala:53)
    at akka.actor.typed.javadsL.AbstractBehavior.receive(AbstractBehavior.scala:64)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.InterceptorImpl$$anon$2.apply(InterceptorImpl.scala:57)
    at akka.actor.typed.internal.SimpleSupervisor.aroundReceive(Supervision.scala:124)
    at akka.actor.typed.internal.InterceptorImpl.receive(InterceptorImpl.scala:85)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.adapter.ActorAdapter.handleMessage(ActorAdapter.scala:131)
    at akka.actor.typed.internal.adapter.ActorAdapter.aroundReceive(ActorAdapter.scala:107)
    at akka.actor.ActorCell.receiveMessage(ActorCell.scala:579)
    at akka.actor.ActorCell.invoke(ActorCell.scala:547)
    at akka.dispatch.Mailbox.processMailbox(Mailbox.scala:270)
    at akka.dispatch.Mailbox.run(Mailbox.scala:231)
    at akka.dispatch.Mailbox.exec(Mailbox.scala:243) <5 internal calls>
actorMultiply: operation count = 3
actorMultiply: operation count = 4
[actorMath-akka.actor.default-dispatcher-5] INFO akka.actor.LocalActorRef - Message [Z1.MathActor$MathCommandDivide] to Actor[ak

```

Output strategii resume:

```

Z1 main: actor system ready
actorMultiply: operation count = 1
actorDivide: operation count = 1
actorMultiply: operation count = 2
actorDivide: operation count = 2
[actorMath-akka.actor.default-dispatcher-6] ERROR akka.actor.typed.Behavior$ - Supervisor ResumeSupervisor saw failure: / by zero
java.lang.ArithmeticException Create breakpoint : / by zero
    at Z1.MathActorDivide.onMathCommandDivide(MathActorDivide.java:34)
    at akka.actor.typed.javadsL.BuiltReceive.receive(ReceiveBuilder.scala:213)
    at akka.actor.typed.javadsL.BuiltReceive.receiveMessage(ReceiveBuilder.scala:204)
    at akka.actor.typed.javadsL.Receive.receive(Receive.scala:53)
    at akka.actor.typed.javadsL.AbstractBehavior.receive(AbstractBehavior.scala:64)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.InterceptorImpl$$anon$2.apply(InterceptorImpl.scala:57)
    at akka.actor.typed.internal.SimpleSupervisor.aroundReceive(Supervision.scala:124)
    at akka.actor.typed.internal.InterceptorImpl.receive(InterceptorImpl.scala:85)
    at akka.actor.typed.Behavior$.interpret(Behavior.scala:274)
    at akka.actor.typed.Behavior$.interpretMessage(Behavior.scala:230)
    at akka.actor.typed.internal.adapter.ActorAdapter.handleMessage(ActorAdapter.scala:131)
    at akka.actor.typed.internal.adapter.ActorAdapter.aroundReceive(ActorAdapter.scala:107)
    at akka.actor.ActorCell.receiveMessage(ActorCell.scala:579)
    at akka.actor.ActorCell.invoke(ActorCell.scala:547)
    at akka.dispatch.Mailbox.processMailbox(Mailbox.scala:270)
    at akka.dispatch.Mailbox.run(Mailbox.scala:231)
    at akka.dispatch.Mailbox.exec(Mailbox.scala:243) <5 internal calls>
actorMultiply: operation count = 3
actorDivide: operation count = 3
actorMultiply: operation count = 4
actorDivide: operation count = 4

```

2. Zadanie 2.

Nie wykonano.