

aspect Tracing depends on Context, Traceable

structural view depends on Context, Traceable

Context binding

TracingContext → Context.Context

Context instantiation

Context.IContextParticipant → ITracingParticipant

Traceable instantiation

Traceable.ITraceable → ITraced

ITracingParticipant
ITraced

ITraced

+ * m(..)

TracingContext

+ boolean wasModified(ITraced obj)
+ ITraced[] getModified()
+ Trace[] getTraces()
+ removeTraces(Trace t[])
- addTrace(Trace t)
+ addTraces(Trace t[])

myTrace

TraceList

+ create
+ destroy
+ insert(Trace t)
+ Trace[] findTraces(ITraced o)
+ ITraced[] findModified()
+ removeAll()
+ Trace[] getAll()

ITracingParticipant

+ createAndEnterContext()
+ leaveContext()

Trace

0..*
element

state view TracingContext depends on Context

Pointcut

AddAllowed

RemoveAllowed

Any

Advice

wasModified getModified

Any

getTraces

addTrace

AddAllowed

addTraces

RemoveAllowed

removeTraces

Context binding

AddAllowed → Context.Active

RemoveAllowed → Context.Completed

Any → *

state view ITracingParticipant is Context.ContextParticipant

Idle, IWorking

state view ITraced depends on Traceable

Advice

ITraceable instantiation

Any → BeforeM

BeforeM

m

AfterM

Pointcut

BeforeM

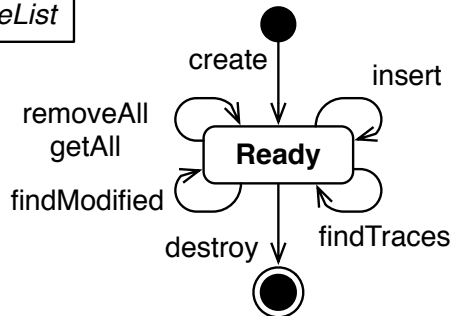
m

AfterM

Traceable binding

m → + * Traceable.*(..)

state view TraceList



message view createAndEnterContext is Context.createAndEnterContext

message view leaveContext is Context.leaveContext

message view getTraces

Pointcut

Advice

Iresult

caller: Caller

target:

TracingContext

Iresult = getTraces(Trace t[])

caller: Caller

target:

TracingContext

myTrace: TraceList

Iresult = getTraces(Trace t[])

result := getAll()

Binding

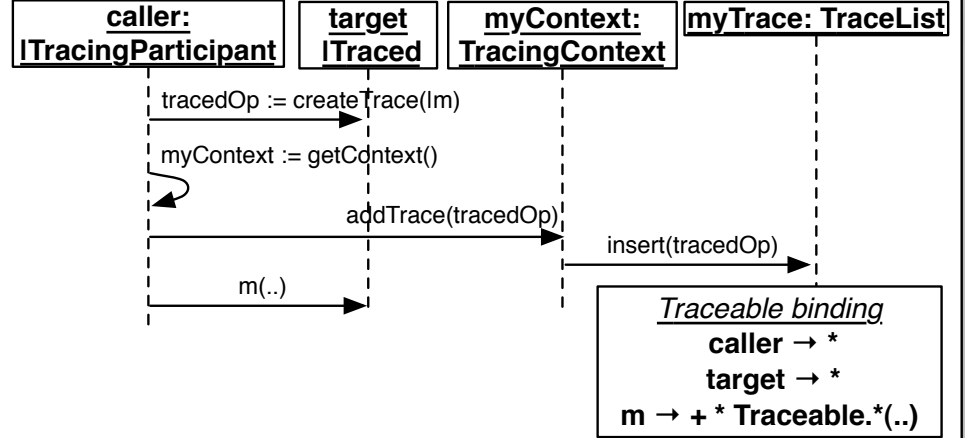
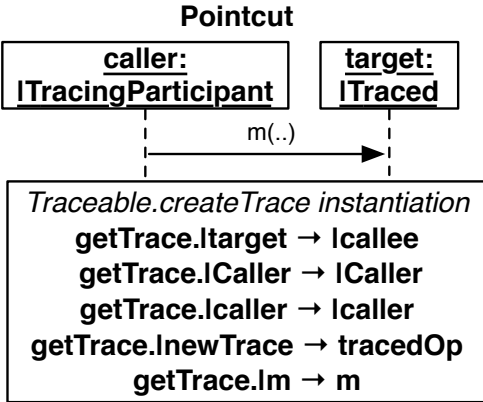
caller → *

Caller → *

target → *

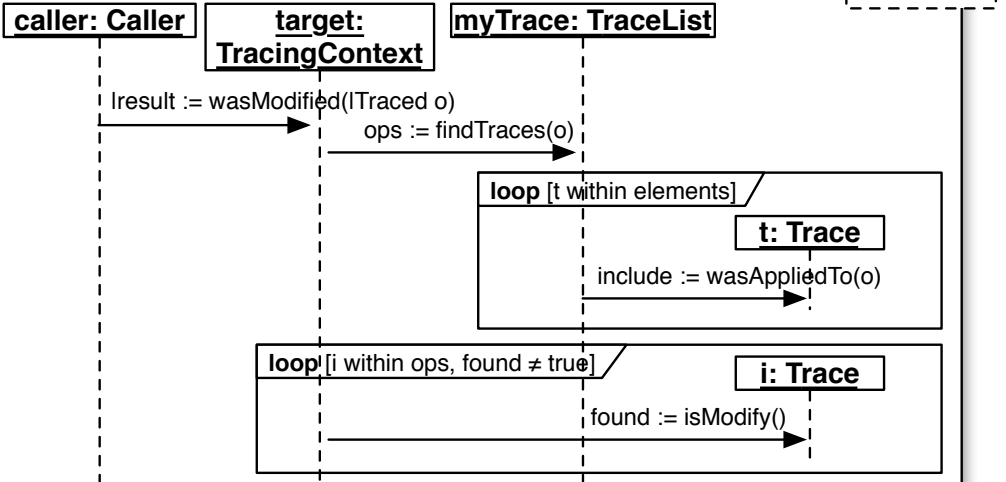
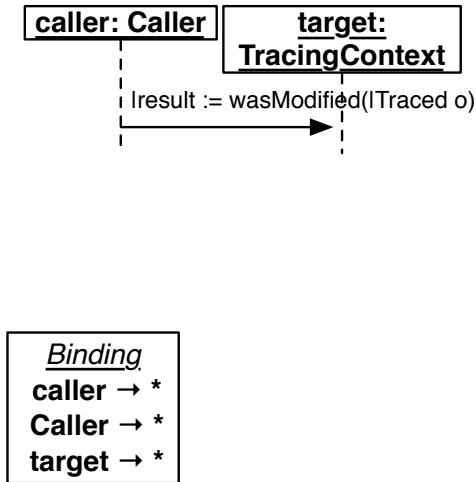
message view traceMethod depends on Traceable

Advice



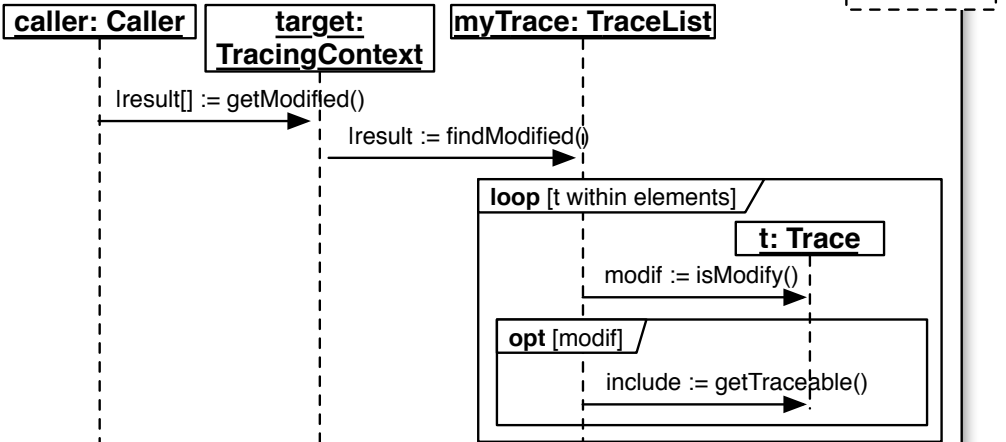
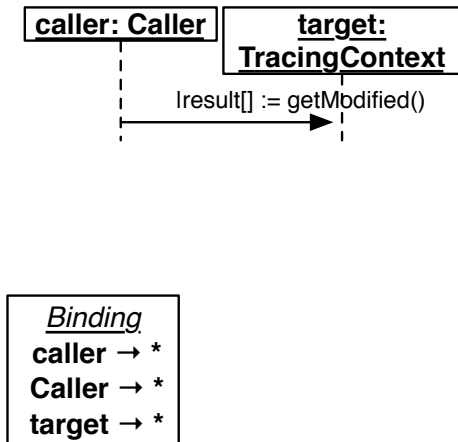
message view wasModified

Advice



message view getModified

Advice



message view removeTraces

Advice

