# SomeTitle

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	Abstract
Background:	
Results:	
Conclusion:	



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### 1 introduction

- 2 Task Description and Requirements
- 2.1 Description
- 2.2 Requirements

#### 3 Prestudy

```
tracing:
gnu debugger
   visualizing:
   Jinsight
made by IBM
two components: profiler and visualizer
only for z/OS or Linux on system z
builds a trace when application is running
client connects to profiler and visualizes the trace
modified JVM?
120 minute trace limit
very powerful
   Javavis
relies on the Java Debug Interface (JDI), and the Vivaldi Kernel (a visualization
shows dynamic behavior of running program
object diagrams+sequence diagram, UML
smooth transitions
not a debugger
   code canvas (visual studio)
unites all project-files on a infinite zoomable surface
both content and info
layers of visualization - files/folders, diagrams, tests, editors, traces ++
several layers visible at the same time
search
   trace viewer plugin (g-Eclipse)
g-eclipse=grid, archived project
visualize and analyze communication of message-passing programs
standalone/platform independent
designed for massive parallelism
debugging
event markers
fast way to check object-relations and -properties
Whyline: interrogative debugger
why did, why did not
works on recorded executions
   TOD: Trace-Oriented Debugger
omniscient debugger
queries
dynamic visualizations - high-level, graph of event density
```

interactive forwards- and backwards-stepping two forms: re-execution, state-saving re-execution: small memory footprint, slow backward stepping state-save: fast stepping both ways, needs more memory, amount depending on program

Jive combines ale fields contour diagram sequence diagram stepping - state-saving queries - enabled by state-saving can be used for debugging

## 4 Conclusion

### References