First International
TSP
Workshop
Transport Sample Protocol

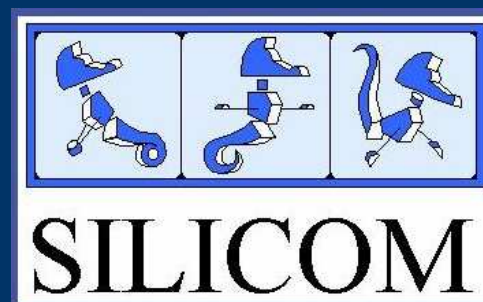ALCATEL ALENIA SPACE
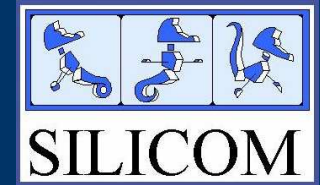An Alcatel/Finmeccanica company

Juzzle

Silicom presentation

Cyrille François
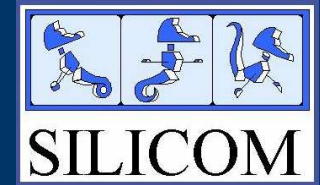*Thomas Testasecca*

SILICOM

Blackboard / TSP usage

- Alcatel DVB-RCS Hub

- Counters and Probes monitoring

- 1.000.000+ of published variables

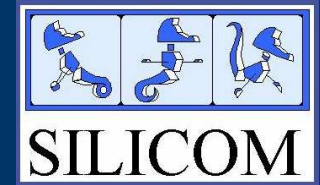- High sampling frequency @40 Hz

Blackboard "Alias publish"

- Provides structured data publication
  - Struct of Arrays of Struct ...
- Offsets from "real" variables
- Usable as real variables
  - ex: struct.array_of_struct[3].var

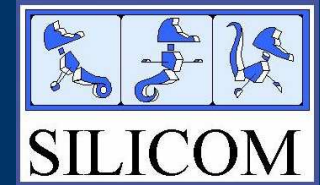# *Computing TSP provider*

- Provides RT computation on variables

  - sliding mean, accumulator, speed ...

- On demand server side computing

- Usable by standard TSP clients
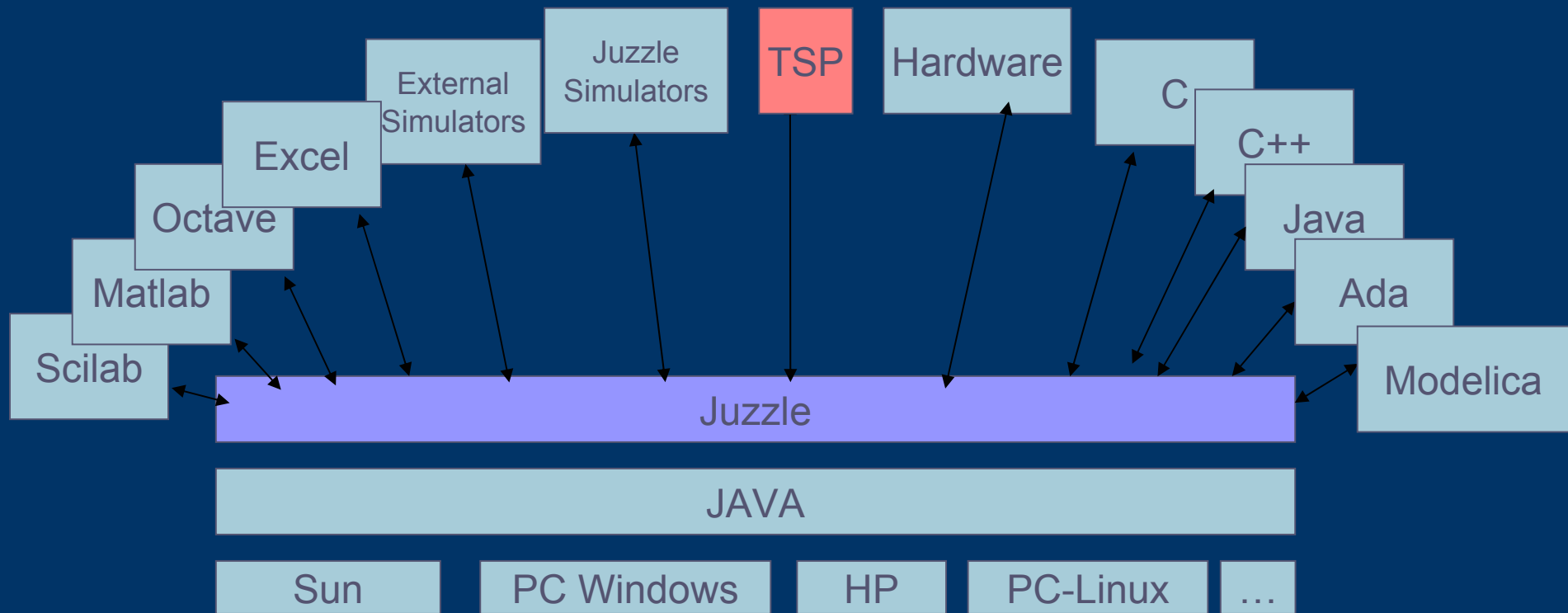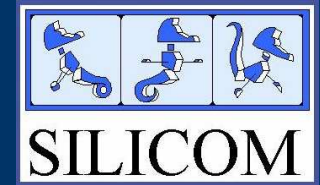
  - mean%my_variable

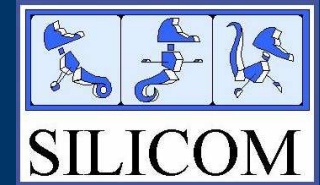- Based on TSP 7.0
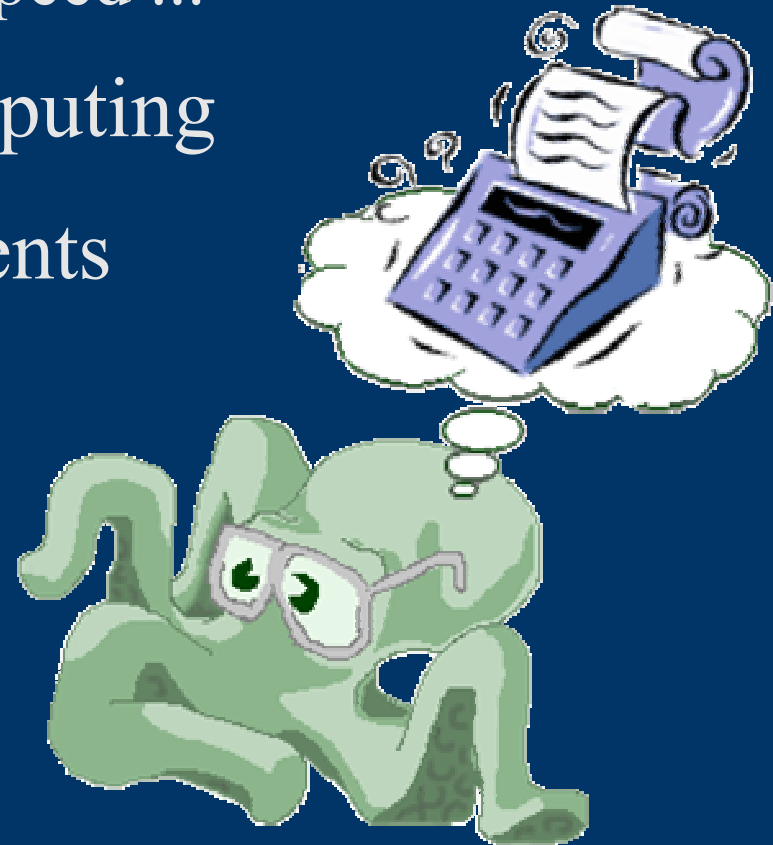
Juzzle generalities

- Heterogeneous simulation tool

- Open framework build on top of Java

- Reusable platform for specific development

- Fast and easy application prototyping

- Provides distributed grid computing

- CPL licence (www.juzzle.org)

Juzzle = Java + Puzzle

SILICOM

	Juzzle Simulators	TSP	Hardware	C
External Simulators				C++
Excel				Java
Octave				Ada
Matlab				
Scilab				Modelica

Juzzle

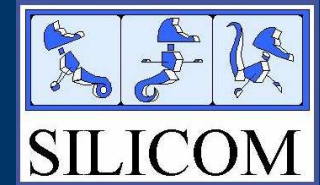**JAVA**

| Sun | PC Windows | HP | PC-Linux | … |

Juzzle TSP plugin

- Complete jTSP integration into Juzzle

- Allows Juzzle component reusability

  – Real time monitoring at high sampling rate

  – Storage to disk

  – Export to external application

  – Usage as input data for simulation

- Work in progress
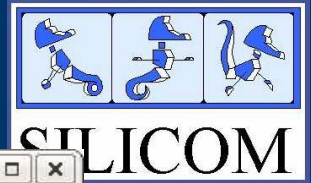
Demonstration :

Juzzle TSP plugin

TSP/Juzzle : Probe selection

TSP/Juzzle : RT monitoring

The end

Juzzle