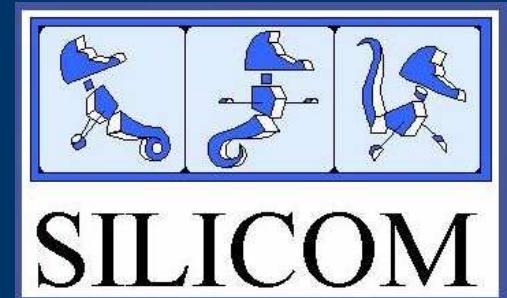




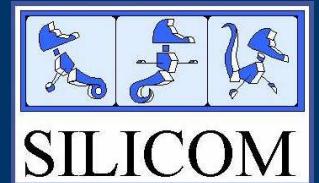
Silicom presentation



*Cyrille François
Thomas Testasecca*



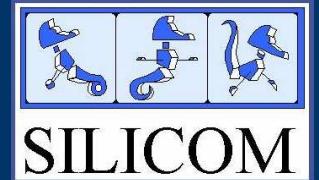
Blackboard / TSP usage



- Alcatel DVB-RCS Hub
- Counters and Probes monitoring
- 1.000.000+ of published variables
- High sampling frequency @40 Hz



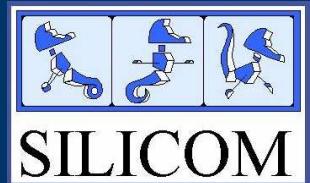
Blackboard “Alias publish”



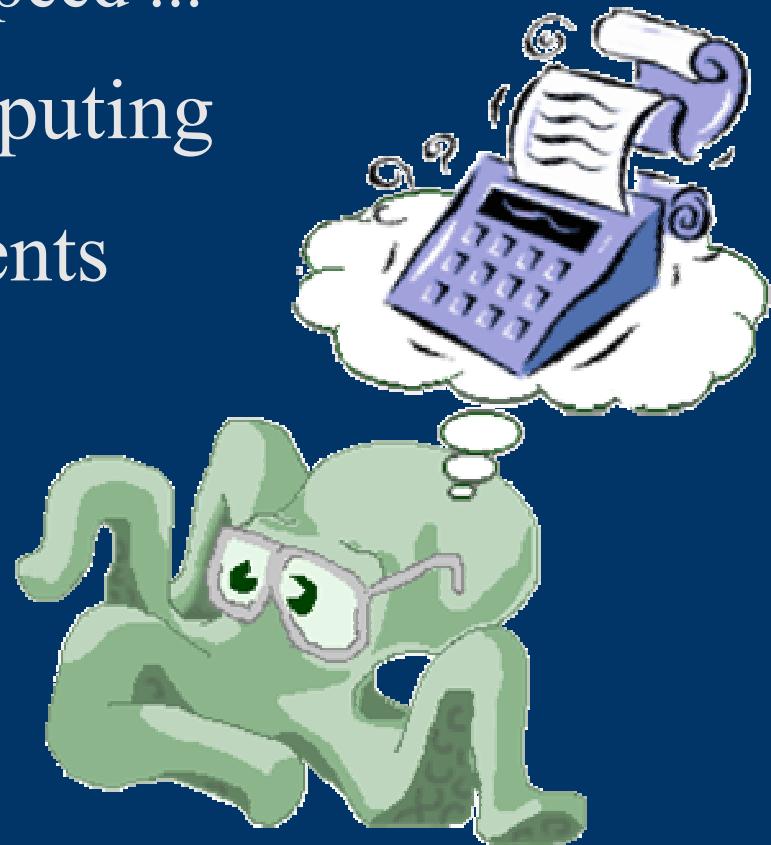
- Provides structured data publication
 - Struct of Arrays of Struct ...
- Offsets from “real” variables
- Usable as real variables
 - ex: struct.array_of_struct[3].var



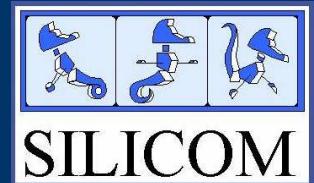
Computing TSP provider



- 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



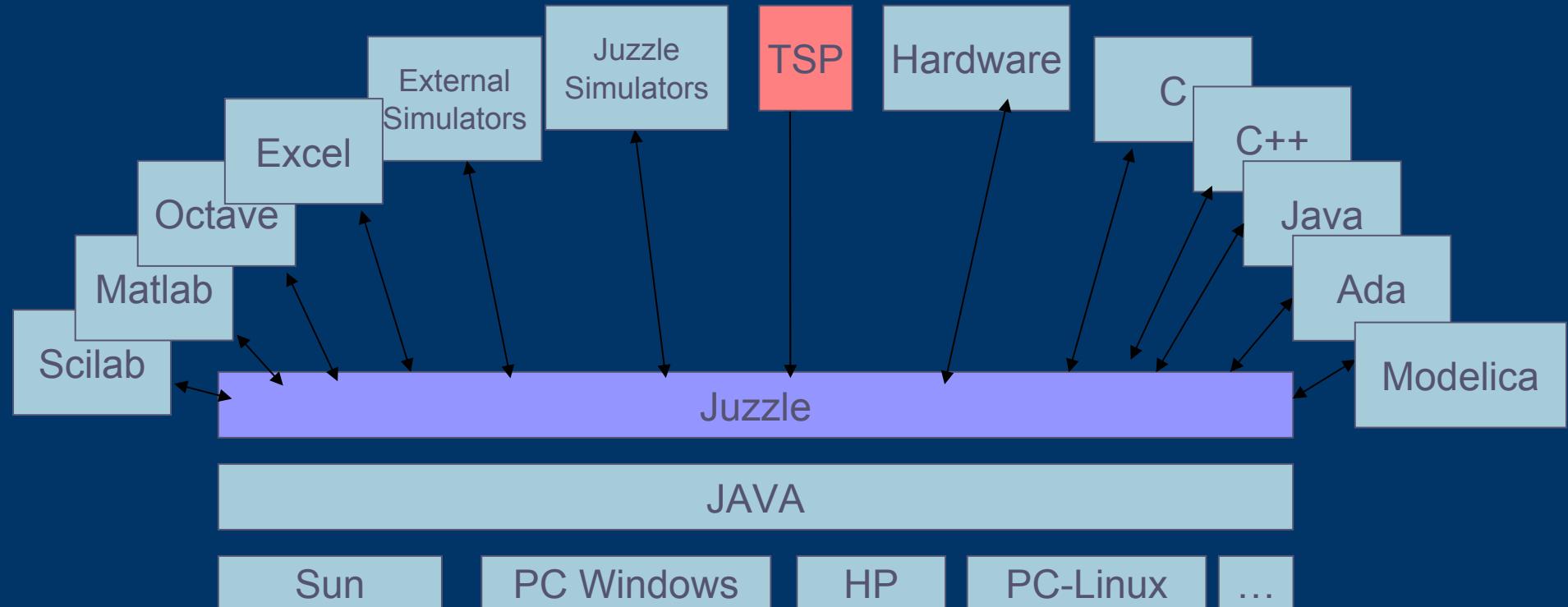
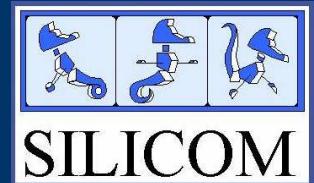
Juzzle generalities



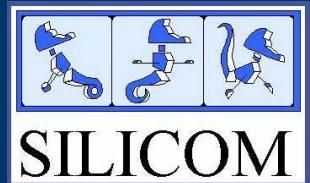
- Heterogeneous simulation tool
- Open framework build on top of Java
- Reusable platform for specific development
- Fast and easy application prototyping
- Provides distributed grid computing
- CPL licence (www.juzzle.org)



Juzzle = Java + Puzzle

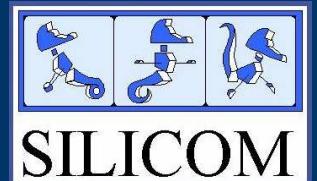


Juzzle TSP plugin



- 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



Juzzle

TSP/Juzzle : Probe selection



SILICOM

Testbed [Testbed-?]

Testbed Monitor 1 Monitor 2 Monitor 3 Current execution

Architecture Configuration Calibration Equipments Supervisor Parameters

+ <> <> <> <> Activate X

TSP sampling source selection

Avalaible symbols

- bb_simu_display_level
- bb_simu_int8[1]
- bb_simu_uint8[1]
- bb_simu_1_Toto[0]
- bb_simu_1_Toto[2]
- bb_simu_1_Titi
- bb_simu_1_Tata[1]
- bb_simu_1_Tata[4]
- bb_simu_1_Tata[5]
- bb_simu_1_Tata[6]
- bb_simu_1_Tata[7]
- bb_simu_1_Tata[8]
- bb_simu_1_HugeArray[0]
- bb_simu_1_HugeArray[1]
- bb_simu_1_HugeArray[2]
- bb_simu_1_HugeArray[3]

Selected symbols

- sliding_mean%5%bb_simu_int8[0]
- sliding_mean%5%bb_simu_uint8[0]
- sliding_mean%5%bb_simu_1_Toto[1]
- sliding_mean%5%bb_simu_1_Tata[0]
- sliding_mean%5%bb_simu_1_Tata[2]
- sliding_mean%5%bb_simu_1_Tata[3]

>> > < <<

Filter symbols

Filter :

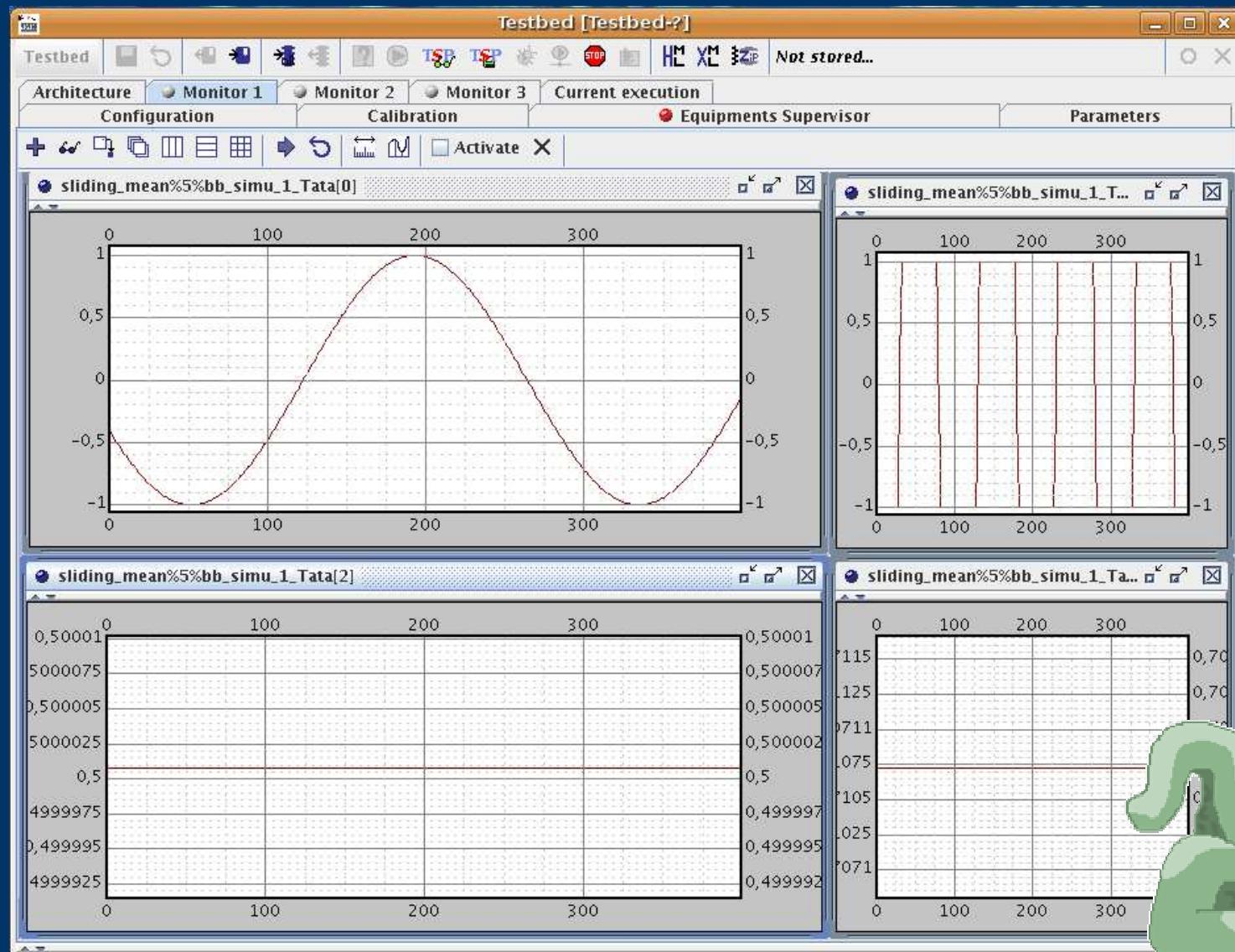
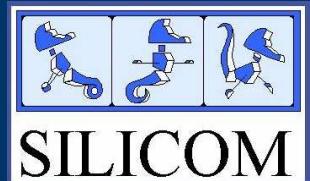
Computed functions

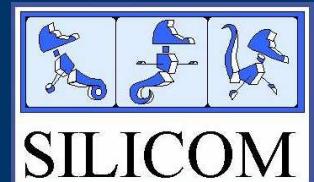
Function : sliding_mean Window size : 5

OK Cancel



TSP/Juzzle : RT monitoring





The end



Juzzle

