Using Ptolemy/VisualSim for Internet-based Model Sharing & Communication

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Mission Statement
System Simulation Software
with Application-specific Modeling Libraries
for Performance and Architecture Exploration
of Large Complex Electronic Systems

Innovative methodology for addressing today's Ad-Hoc Approaches

About Mirabilis Design
System design and exploration for Systems, SoC and Software
VisualSim- Modeling and simulation environment

Based in Silicon Valley with offices in Southern California, Czech and India
Experienced application support in US, India, Japan and China
Largest source of system modeling IP with embedded timing and power
Experts in system modeling and architectures
Select the "Right" configuration to match customer request

Technical Marketing
Corporate Think Tank
DSP/Analog
Protocols
Embedded Software
Networks
Hardware/IC
Systems Engineer
Performance Engineers
Internal Users
To Implementation (HDL, Embedded C/C++/Java)

External Users
Customers
Partners
Sub-System Architect
3rd Party Provided

Imaging
Aerospace/Automotive/Networking/Communication/Wireless/Embedded and Computing
Digital Control/uP and Computing/etc…../System Verification

Select the Right configuration to match customer request

Challenges - Convergence

What is a System?
System is what you are building

Challenges - IP Re-Use
Internet reduced IP distribution cost, But …
• No standard modeling interface and format
• Several abstraction-levels and domains
• No unified design and simulation environment

IP Distribution and Evaluation
IPware URL
My_URL_list
Intranet URL Link
Download
Non-standard formats prevent IP reuse over the Internet
It is possible...

Creating the Right Design