

Interoperability Developer's Forum

**Milkyway Database Session
October 17, 2003**



October 17, 2003

 *Your Interoperability Partner*

OCTOBER 17, 2003 Milkyway Developer's Forum Agenda

08:30 -		09:00 Registration		
09:00	-	09:30	Intro - update on MAP-in program	Doug Lundin
09:30	-	10:15	Sequence User Paper	Steve Kaufman
10:15 -		10:30 BREAK		
10:30	-	11:15	Apache User Paper	Steven Chen
11:15	-	12:00	Update from R&D	James Hsueh
12:00 -		13:00 LUNCH		
13:00	-	13:45	Synchronicity User Paper	Mitch Mastellone
13:45	-	15:00	Tutorial: Design Hierarchy in Milkyway	Laurence Brevard
15:00 -		15:15 BREAK		
15:15	-	16:15	Tutorial: adding Menu items to MDE	Manoz Palaparthi
16:15	-	16:30	Closing Remarks	Doug Lundin

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Expanding Galaxy Interoperability via Milkyway C-API

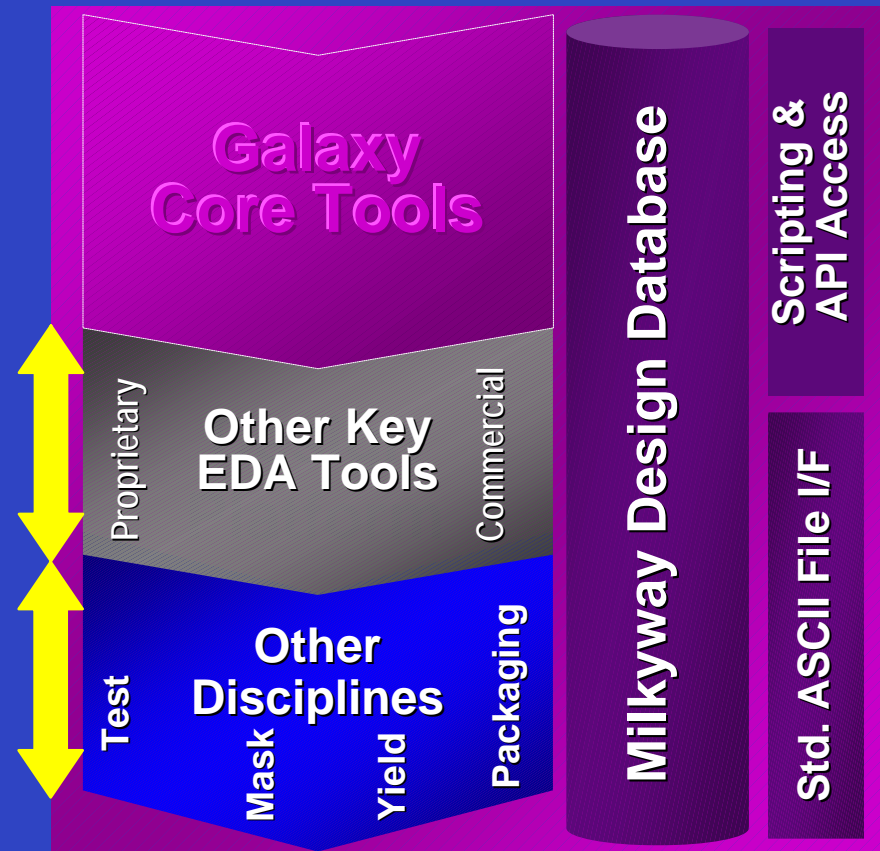
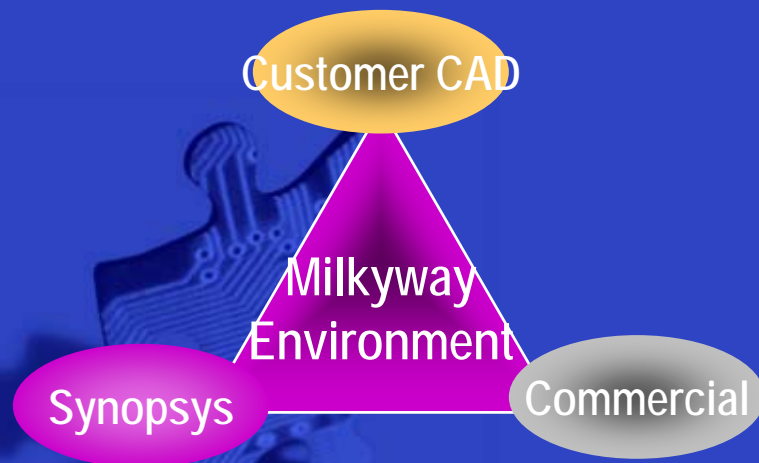
Doug Lundin



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Galaxy Interoperability Focus

- Enhancing the Galaxy Platform
- Extending the Galaxy Platform
- Communication



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Milkyway Components

(Released in February 2003)

- Milkyway Database
- ASCII file readers/writers
- Basic GUI/Editor
- Extension Language API
 - Extension of Synopsys' environment
 - Interpreted development environment

Milkyway Environment

Milkyway Design Database

Scripting & API Access

Std. ASCII File I/F

GUI Editor

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MAP-in Program for EDA vendors

- Basic Membership Requirements
 - Commercial software tool vendor
 - Agree to MAP-in license
- No Membership Fee
 - First copy of Milkyway at no charge.
 - Additional copies of software available for \$5.1k/yr from MAP-in program manager
 - NOW includes C-API source header files and link library object
 - Access to SURF on available/approved basis
 - MAP-in web forum for community support
- Optional annual support contract for \$95k

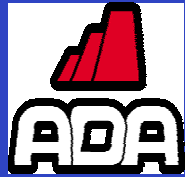
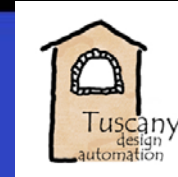
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MAP-in Licensees, 2/03



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MAP-in Licensees, 9/03



Active Product Development

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Milkyway C-API

- C-API direct to Milkyway database
 - Standard C development environment
 - API source header files
 - Static-linkable Milkyway C library object

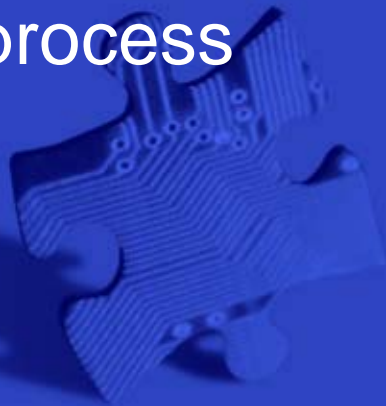
- Third-party application environment



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C-API Benefits

- Greater flexibility than Scheme for application development
 - More complex data types in C
- Higher performance for complex interactive or repetitive operations
- Fits in to standard C or C++ development process



MAP-in C-API Early Developers



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Golden Gate Working Group

- Synopsys committed to interoperability
- Golden Gate Working Group formed with OpenAccess Coalition to insure effective and efficient data interchange between Milkyway and OpenAccess
- Si2 joins MAP-in
 - Si2 and Synopsys will both distribute the interoperability software based on Milkyway C-API libraries

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Summary

- The C-API for Milkyway offers new Galaxy interoperability options for EDA tool vendors
- Commercial EDA tool vendors are investing in interoperability with Galaxy and Milkyway today
- Synopsys continues to lead the industry in practical interoperability



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Late Breaking News

- The licensing model for the Milkyway Database C-API runtime is changing

WAS

Required “Milkyway” license
+ “MWCAPIAccess” license
feature

\$10,500 per license
perpetual price

NOW

Requires “Milkyway” license
feature ONLY

“Milkyway” licenses included
with major Milkyway-based
products

e.g. Astro (5), Cosmos (2)...

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