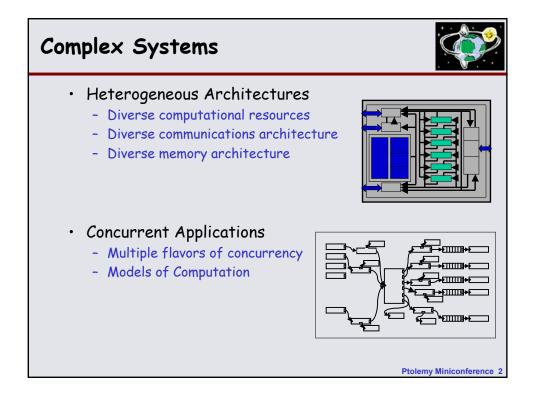


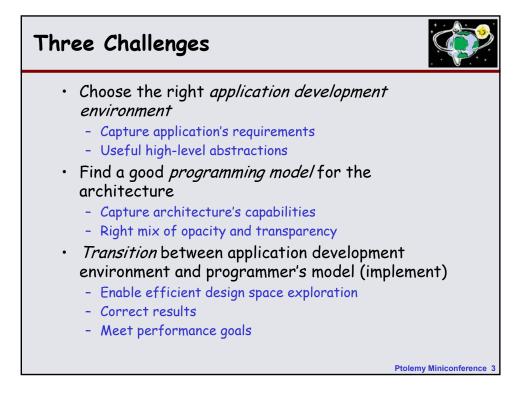
Andrew Mihal and the MESCAL team UC Berkeley

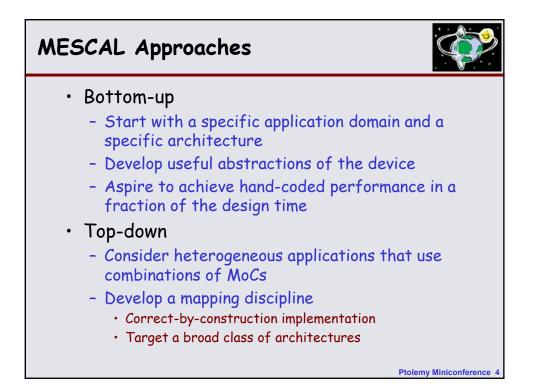


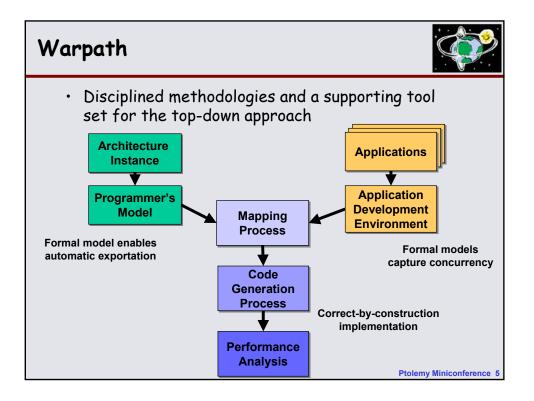
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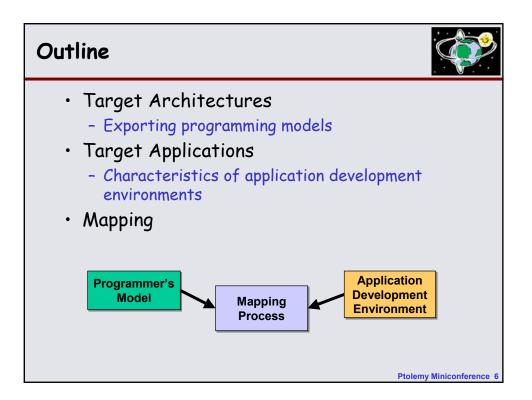
5<sup>th</sup> Biennial Ptolemy Miniconference Berkeley, CA, May 9, 2003

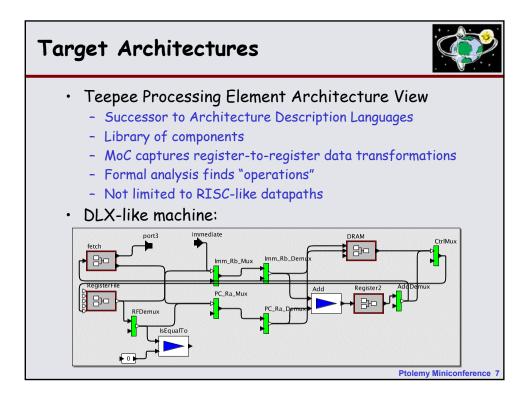


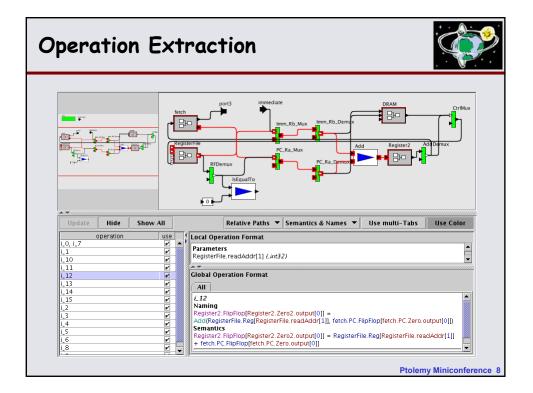


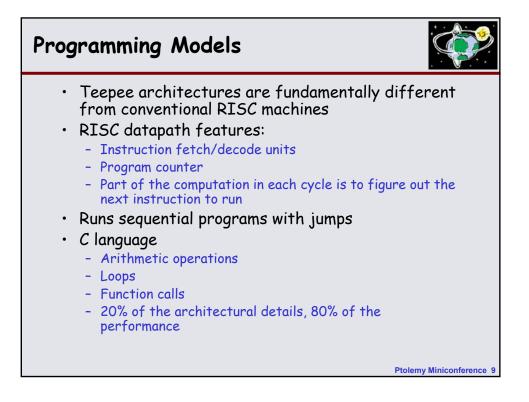


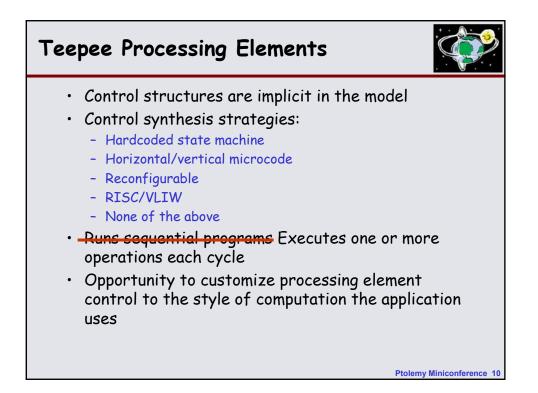


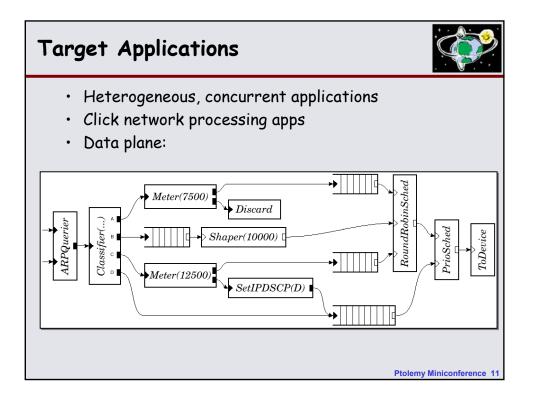


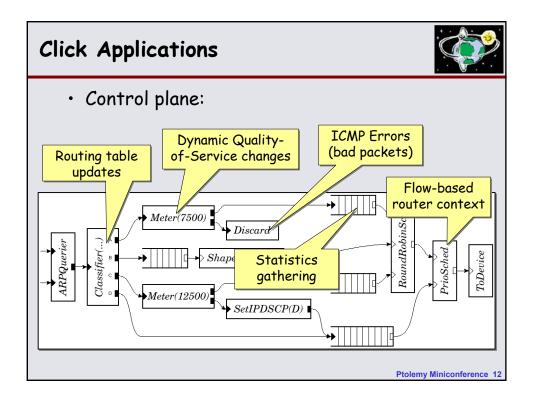


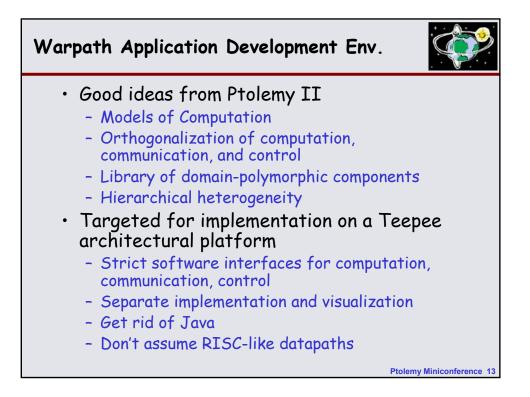


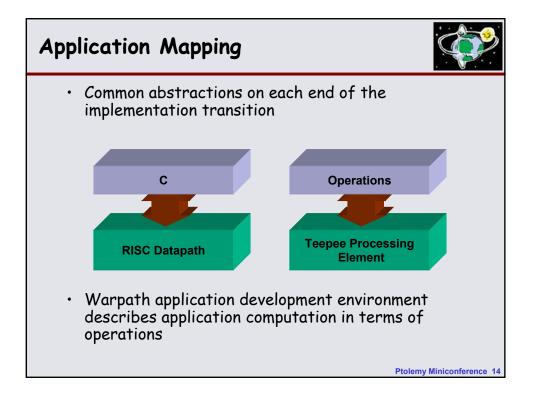


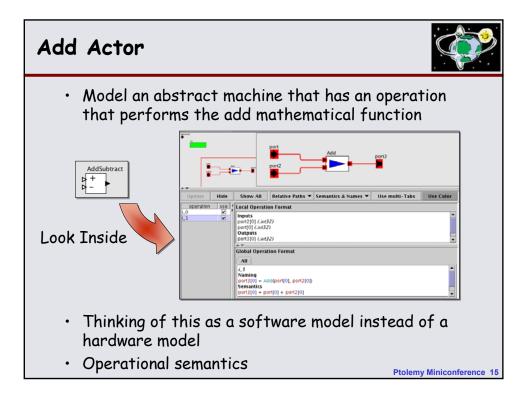


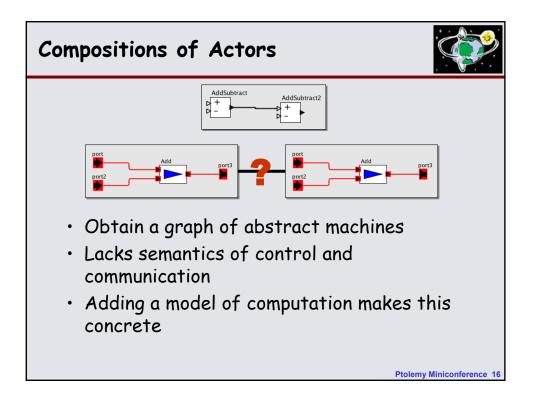


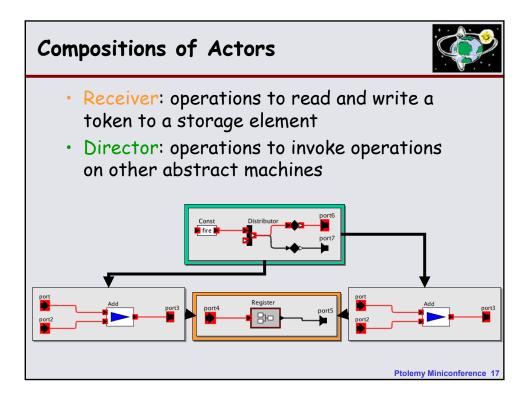


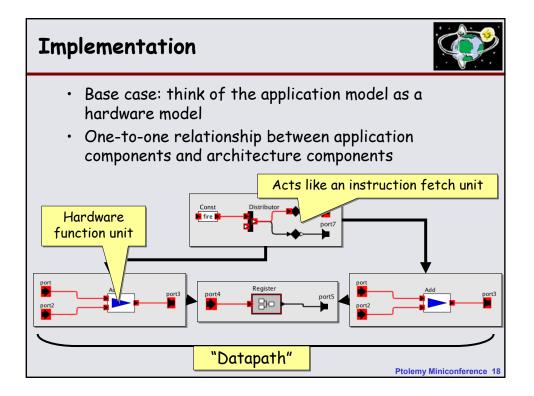


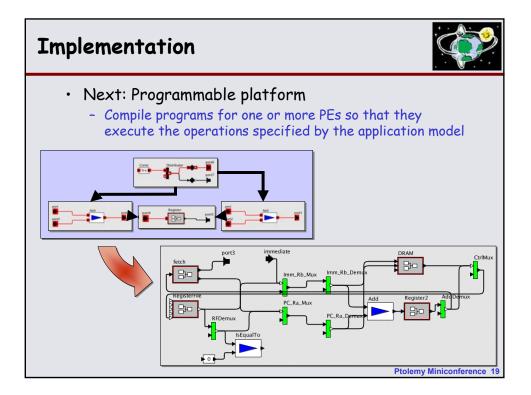












Summary
<ul> <li>We maintain that the key is to have common abstractions on each end of the implementation transition</li> </ul>
<ul> <li>Actors and domain components described in terms of operations         <ul> <li>Operational semantics for an abstract architecture</li> <li>Retargetable compilation process</li> </ul> </li> </ul>
<ul> <li>Designers can tune architectures to match the application</li> </ul>
<ul> <li>Application MoC influences PE control logic</li> </ul>
<ul> <li>Program counters, stacks in memory, etc. optional</li> </ul>
<ul> <li>Add special function units that perfom domain-specific operation</li> </ul>
<ul> <li>Explore customization/programmability tradeoffs</li> </ul>
Ptolemy Miniconference 20

## The MESCAL Team



- Kurt Keutzer
- Matthias Gries
- Christian Sauer
- Kees Vissers



- Yujia Jin
- Andrew Mihal
- Matt Moskewicz
- Will Plishker
- Kaushik Ravindran
- Niraj Shah
- Scott Weber

Ptolemy Miniconference 21