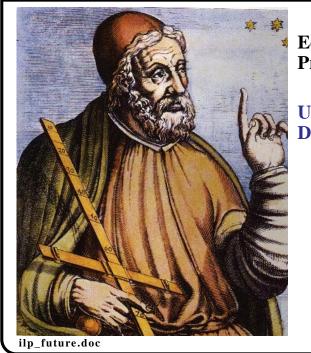
## The Future of the Ptolemy Project — Design of Distributed Adaptive Signal Processing Systems



Edward A. Lee Principal Investigator

UC Berkeley Dept. of EECS

UNIVERSITY OF CALIFORNIA AT BERKELEY

# **DARPA DASP Project**

## Phase 1 (11/96 - 5/98)

- Modular deployable design tools
- Domain-specific tools for distributed adaptive signal proc.
- Models for dynamically configured systems

## Phase 2 (6/98 — 11/99)

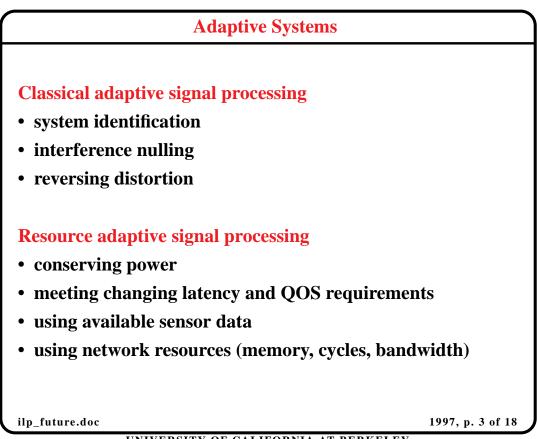
- Process-level type system
- Formal analysis and debugging
- System-level visualization

# **Option (5/97 — 5/98)**

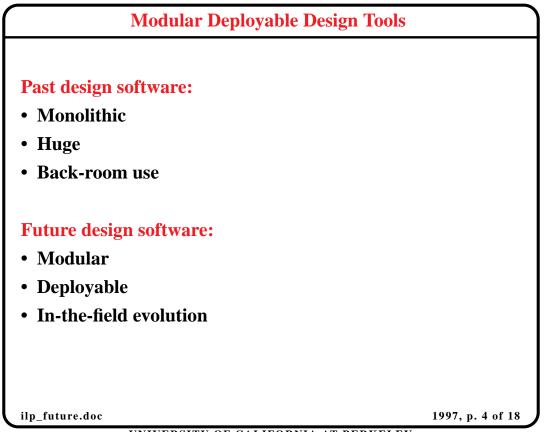
• Array formalism for multidimensional signal processing

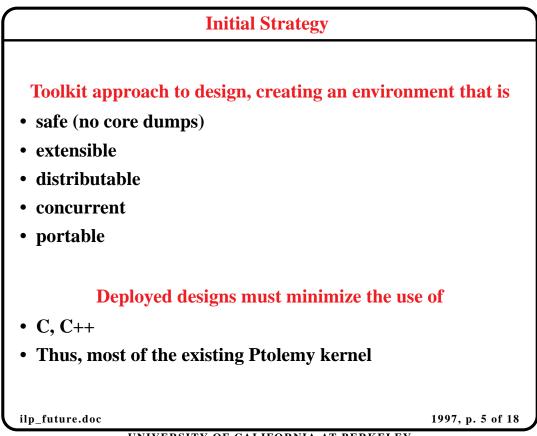
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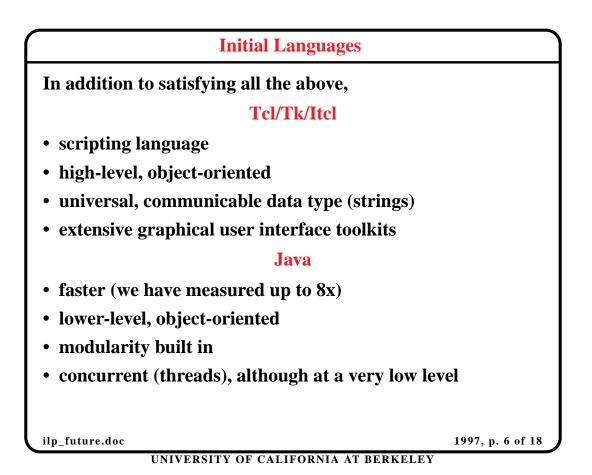
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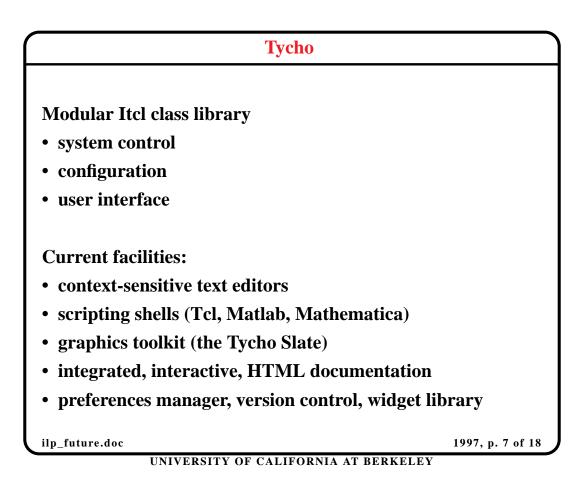


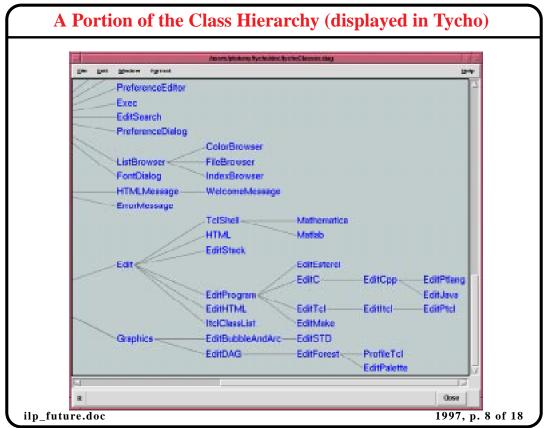


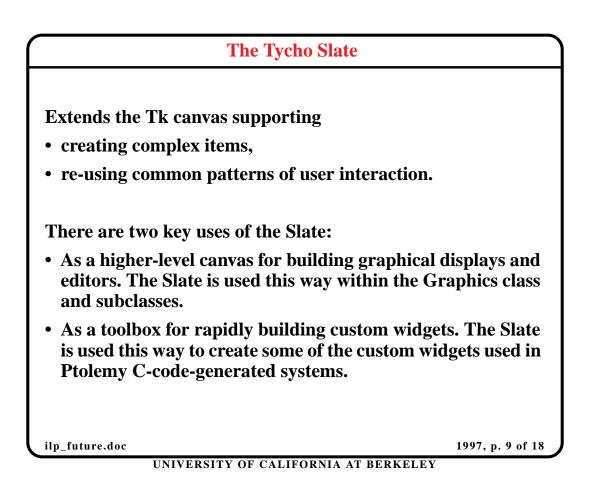












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Introduction to drawing	3
introduction to drawing	
The Slate is an extension of the Tk carwas, and is, as far fully unwards-compatible with the carwas any code	
the canvas should work if a Slate is substituted for the ca	
the canvas should work it a caute is substituted for the ca	ALLERD.
The Slate (like the carryas) has a large number of operat	ions and this
document only gives a cursory overview of most of them	
detailed information on the kinds of operations supporte	
and the Slate, see the Tk canvas documentation and the	
documentation.	
To illustrate the operation of the slate, we will create a s	
toplevel window. Normally, however, you will use the sl	
Graphics widget, or within your own custom widget. To call the slate procedure:	create the state,
can the state procedure:	
::tycho::Displayer .t	Cite#
::tycho::slate t.s pack .t.s -fill both -expand on	
<pre>pack .t.s -fill both -expand on .t centerCoScreen</pre>	
set slate .t.s	

executes the code, creating the example slate on the right.

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- implemented a Kahn process network model in Java
- outlined a dataflow/FSM hybrid model of computation
- installed Sun's tcljava interface
- 'tycho -java' starts up java with Tycho
- can reparent Java applet viewer within Tycho

#### **Problems with Java/Tycho Interface**

- Java documentation system is not compatible with Tycho's
- Need a communication architecture for Java/Tcl
- Need to evaluate effectiveness of just-in-time compilation

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