Embryonic Programming

Retarget Embryonic Primitives to QoS

Characterize Architecture Composition Primitives

Embryonic specification language

Quorum Project Feasibility Demo

Phase I: Globus / Qualis Shadow Project

Impact

Single program family reusable in a variety of defense platforms with varying QoS demands

Specification of QoS aspects explicitly in terms germane to the application domain

Capitalize algorithmic investment rather than focusing on individual platform idiosyncracies

New Ideas

Embryonic programs used intact on a variety of computing platforms

Embryonic programs described using a mixture of Software architecture terms and QoS properties

Modern program generator technology used to integrate embryonic programs on each computing platform

Schedule

FY 97

Initial SAF axes and platforms

SAF embryonic specification primitives

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FY 98

FY 99
Embryonic Programming

David S. Wile
USC / ISI