

Towards Standards for Dynamic Resource Management

An Invitation To Participate

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The Open Group – July 2003

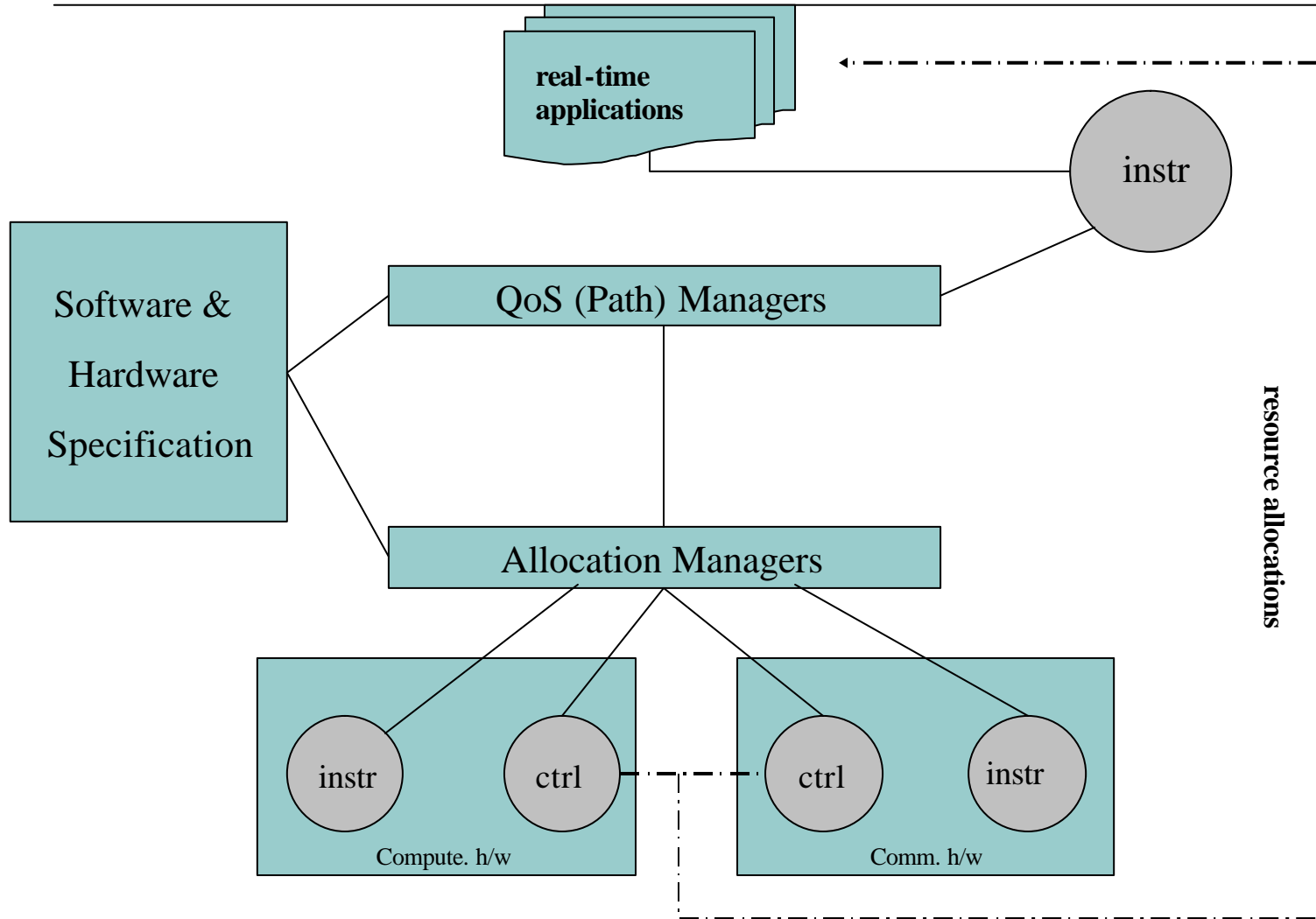
Three Perspectives

- Provide components that optimize performance for the local platform
 - Most transactions per second
 - Optimized disk caching
- Provide mechanisms to allow a pool of computing resources to be shared for efficiency
 - The Grid
- Provide guarantees of performance for distributed processes within a system
 - Goal of “dynamic resource management” – use the available components as a pool of shared computing resources such that there can be a guarantee for application performance.
 - “System Certification” is of key importance

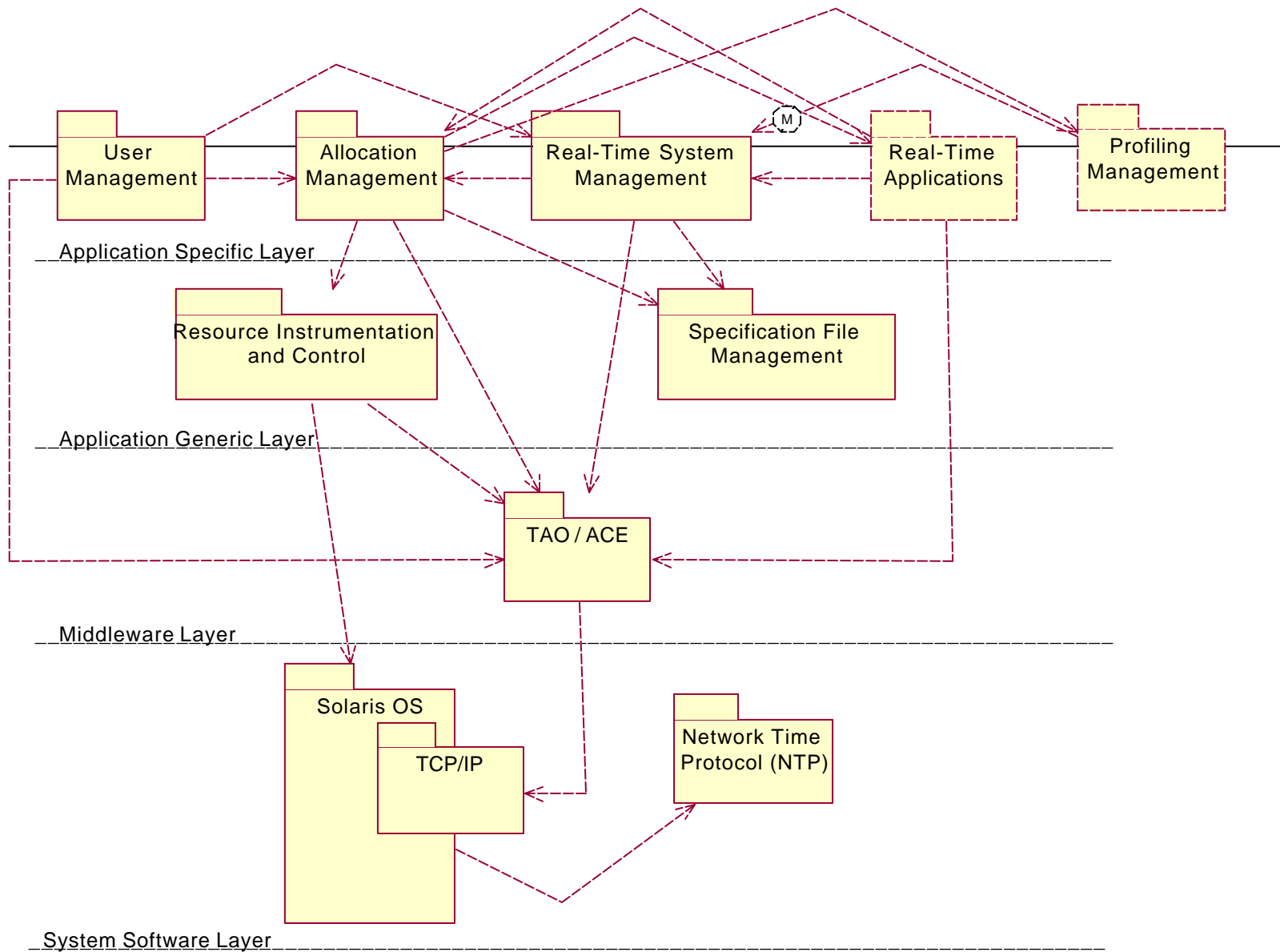
Standards for Dynamic Resource Management

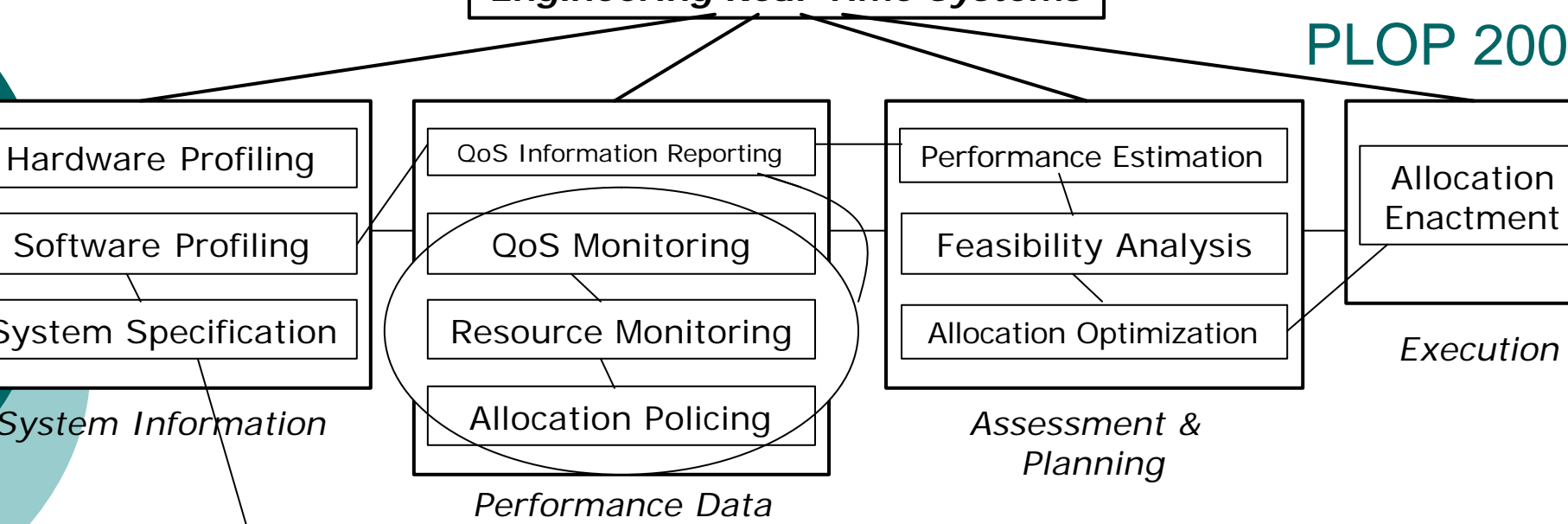
- Dynamic Resource Management
 - Autonomous control of the resources used by applications such that:
 - Real-time constraints are satisfied
 - Performance is optimized
- Previous presentations from Ohio University have discussed recent work in resource management patterns and some of the existing standards that may be applicable to resource management.
 - ARM – Application Response Measurement
 - CIM – Common Information Model
- This presentation briefly provides:
 - An example instance of a resource management solution.
 - The patterns that have been identified within a collection of resource management solutions.
 - An invitation to participate in a forum to define resource management standards.

An Example Dynamic Resource Manager

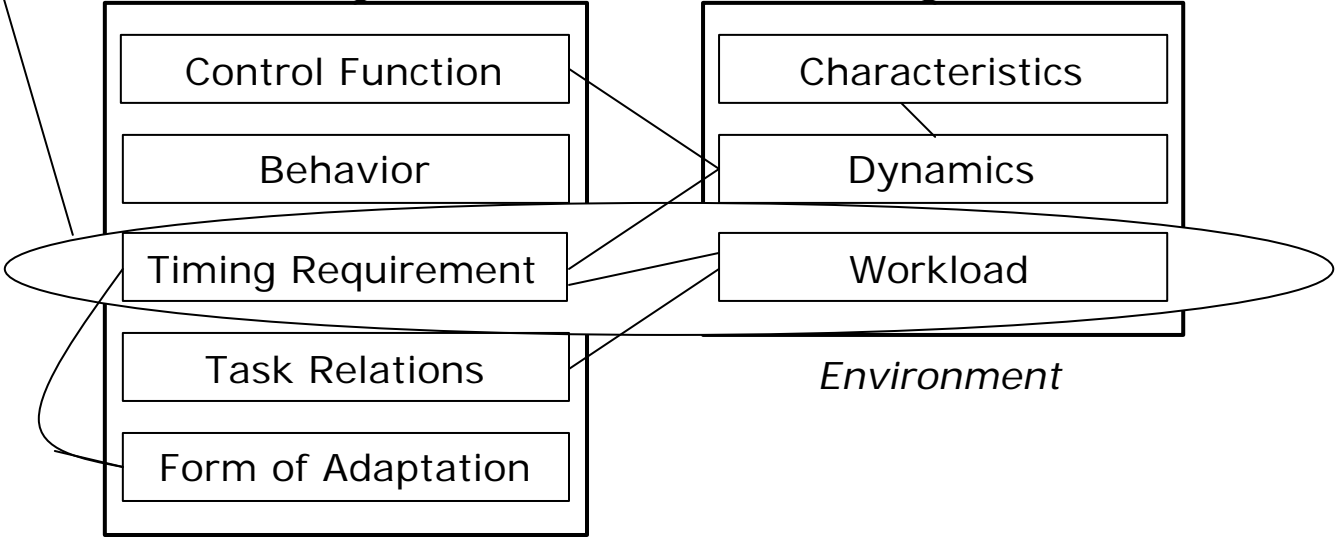


Resource Manager Architecture Layers





Real-Time System Characterization



Invitation To Participate

- The Open Group has agreed to host a forum for defining standards for resource management.
- We extend an invitation to industry and academic institutions that wish to participate in the standards effort.
- Tentative schedule for the kick-off meeting is late August in the Washington D.C. area.
- All interested people and institutions should contact:

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