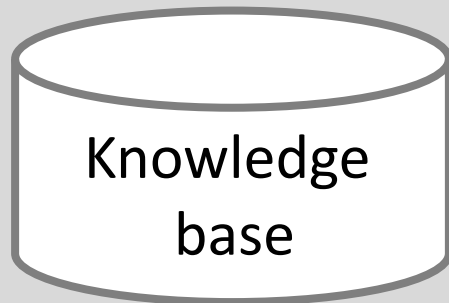


Operating system

Policy Engine



Resource
Manager

Resource Profiler

System-wide

App.-specifc

OS policy engine

Knowledge base (SKB)

- Machine model
- System state information
- Application properties
- CSP solver and resource allocation algorithms

Resource Manager (RM)

- Interacts with applications
- Populates the SKB with HW and system state info
- Triggers SKB computation
- Invokes OS mechanisms to apply the new policies.

Resource Profiler (RP)