

Thoughts on DPE's



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HP DPE History



- Led ANSAware implementation team
- Major contributor to DCE
- Specified CORBA, many Object Services, CORBA/COM interworking, ... in OMG
- Active TINA-C core team member
- Many in-house products based on various OMG-specified products
- Significant internal investment on embedded CORBA variants

What we've learned(1)



- DPE's can be customizable without sacrificing performance
- Minimal CORBA is not radical enough
- Call-by-value is severely brain-damaged
- OMG model is still challenged with respect to multi-cast
- Object reference standard is too complex for embedded environments

What we've learned(2)



- ORB's should be able to negotiate complexity profile during connection set-up
- Nobody in their right minds use DII/DSI in embedded environments
- A rational call-by-value specification is crucial for most sophisticated uses
- There needs to be more prescription with regards to binding establishment

What we've learned(3)

- Variation in communication protocols should not require an act of the OMG - i.e. it should be easy to plug in a different protocol implementation
- We need to understand how to adequately perform component-based test in order to qualify embedded deployments
- Scalability is the key!