Analysis and Comparison between Two Distributed Object Technologies CORBA and DCOM

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ABSTRACT

Distributed Object Computing is the development direction of distributed computing, CORBA and DCOM are two most important distributed object computing platforms. This paper made a deep research on the structure and characteristic of the two technologies, and summarized their advantages and disadvantages .It also compared the aspects of the structure and regulatory, the ability of astride-platform and integrating different language, the problem of security, invoking method, the degree of separation between Client and Server, the communication protocol and the multi-thread. Hence, the two distributed object technologies CORBA and DCOM can be fully understood and their applications can be grasped through comparative study of their similarities and differences. As a whole, the performance of CORBA is better than DCOM, but DCOM has its advantages, hence, DCOM will exist with CORBA for a long time, and they will cooperate even tightly in the future.

Keywords: Distributed object computing, Object- Request Broker, COM, CORBA, DCOM