

The O₂ Object-Oriented Database System

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Abstract

- O₂ is an object-oriented database management system. It consists of several components: a database engine, a set of language interfaces to this engine, and a set of tools that can be used with the engine and from the languages.
 1. The *database engine* is O₂Engine. It supports concurrency, recovery, data security, physical to logical data independence, multi-base and multi-schema with import/export facilities, data administration, indices and clustering, full data distribution over a set of servers and workstations, support for client/server architecture.
 2. O₂Engine can be programmed in various programming languages:
 - in C,
 - in C++,
 - in the object query language, O₂SQL,
 - using the Application Programming Interface, O₂API
 3. O₂Engine can be used in conjunction with various *tools*: O₂Look a GUI toolbox, O₂Kit, an object and class library, O₂Graph, a graph manipulation package, O₂Browser, an object and class browser and O₂Tools, the graphical programming environment for O₂C.
- O₂ offers greater productivity during the design, coding, testing and maintenance phases of application development.
- O₂ generates high performance applications.
- O₂ produces graphic applications of a high ergonomic quality.
- O₂ supports new applications such as CASE, GIS, CAD/CAM, multimedia, technical data and documentation management, network management as well as traditional business type applications
- O₂ reuses existing applications and improves them at a minimal cost.