

Objectivity Case History

Customer Information

Customer: CAE Electronics Ltd.

Industry: Utility – Power Management

Application Domain: ECS – OODBMS: Power utilities face a future of increasingly complex networks. To maximize the reliability of power generation, transmission and local distribution facilities; and to achieve lower life-cycle costs with improved customer service, CAE Electronics provides Energy Management Systems (EMS) and Distribution Management Systems (DMS) designed to suit the specific needs of individual utilities.

Status: Initial Prototype

Platform: Dec Unix

Compiler: C++

Other Tools:

Buying Criteria

O Performance

O MROW

O Data Replication Option

O Scalability

Why Objectivity for this Prototype

From their findings, they will need to demonstrate the following for 2 application sub-systems:

A. Historical Application Subsystem – has data in Oracle - current subsystem does not scale.

1. Will take a sub model and then build a similar limited subsystem using an Objectivity data model
2. User must see updated data every 10 seconds
3. Database size - Oracle can go to 5-10 GB, prove that Objectivity will handle 20-30GB
3. Transaction Inserts: 30 million inserts per day
4. Implement MROW

B. Data Acquisition Subsystem

1. Read access - put entire data in cache - read from it to meet and exceed proprietary memory model
2. Database size will be 200-400MG (currently stored in a proprietary memory model)
3. Transaction updates: 500 updates per sec must be supported - must scale to 1500 updates per sec. -
4. Data Replication - replicate to 20 servers/nodes on same LAN in one physical location
5. Implement MROW

Contact Information

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