

Boarstall Tower, Boarstall, Buckinghamshire, England, listed building, Grade I, banqueting pavilion (possibly), fortified building, gatehouse built 1312, house converted 1925 hunting lodge upgraded 1615

open to public

Earlier Records

19/3/14 24/09/14 Wednesdays 14.00-17.00 last admissions 30 minutes before closin

19/4/14 25/07/14 Earth Holiday Mondays 11.00-17.00 Saturdays on Bank Holiday weekends only 11.00-17.00 last admissions 30 minutes before closing

The "superb C14 gatehouse" (listed Grade I), and gardens with large moat, of Boarstall House (demolished 1778).

Sir John de Haudlo (of Boarstall) built "Buckinghamshire's only complete medieval fortified building" in 1312, both as defences for Boarstall House and as a grand statement of his

status. Although updated in 1615 for use as a banqueting pavilion or hunting lodge and to reflect the latest taste, including "handsome" oriel windows, and the upgrading of its

"fine" top floor banqueting chamber, it retains its medieval floor plan, its medieval belfry, crossloops, crenellations and other features, so keeping its

fortified look, still fashionable in Jacobean times. Today, the exterior and many rooms remain virtually unchanged from then, despite considerable fighting in the British Civil War

when Boarstall changed hands three times, resisting a seige by 1200 men from the New Model Army under Sir Thomas Fairfax in 1645, and finally surrendering after a ten week seige in

June 1646. (Quotations taken from "Buckinghamshire" by Nicolaus Pevsner and Elizabeth Williamson, 2nd. Ed., Penguin 1994, ISBN 0 14 0710.82 0)

main features of building banqueting chamber, hexagonal turrets, moat and oriel windows

All ERROS applications generate HTML and JavaScript on the fly, including these two very different screens. There are no stored HTML pages in ERROS. Developers do not require any HTML skills and no text mark up is required. The top screen shows Boarstall Tower, the home of ERROS, and is from STIPPLE, a very advanced application for recording history, created incrementally using ERROS without programming. It has 29 navigable links including the images. The Google map works just as is it had been retrieved using Google. The lower screen is from an inventory application.

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The Modern

Application Development Framework

that lets you `grow-as-you-go'...

ERROS is a totally new way of creating major computer applications. It is extraordinarily productive and its applications have outstanding performance. Robust, internet ready, scalable ERROS applications, that can be changed on demand, are developed

- incrementally, you can 'grow-as-you-go',
- without a physical database design,
- without a detailed system specification,
- and mostly without program creation.

The concept of compiled applications has gone.

Applications have almost 0 second response times which do not noticeably degrade as data volumes grow. ERROS can handle "Big Data".

ERROS solves with relative ease a variety of problems for which many developers and even database researchers do not have a generic solution, such as bi-directional, many-to-many relationships, and variable length records without Null values.

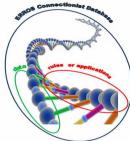
ERROS can be used for creating applications for a very wide variety of businesses and institutions, including transaction processing with concurrency control. It is very suitable for creating applications packages, such as ERP, which can easily be modified to suit all users.

ERROS is a total paradigm shift in modern application development methods so cannot easily be compared with traditional development methods. The concepts of ERROS have been patented.

ERROS Ltd., Boarstall Tower, Boarstall, Bucks HP18 9UX, United Kingdom rob.dixon@erros.co.uk

www.erros.co.uk

With **traditional application development** methods, data are put in tables and the rules that govern that data are coded in programs. These separate worlds of **data and programs have to be kept in synchronisation**, at best a fragile process. It is this separation of the data and the rules that is responsible for most of the ills of the computer application industry.

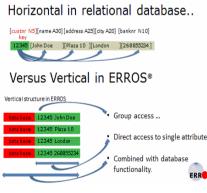


ERROS is the **first computer**

environment in which the database definitions, the application definitions and the user data are designed to be **totally integrated**, stored in the unique ERROS Connectionist Database. This might be compared to the structure of the DNA string in which both sides are related but independent and are interconnected to form one whole.

ERROS runs under the IBM i operating system on the IBM Power Systems platform and on its predecessors. The single level storage facility of the IBM i operating system, together with its integrated storage management system and its integrated DB/2 database allow any object to be referenced, stored and retrieved by name, without any regard to its physical location. An IBM i application developer simply gives a new table a name. He does not need to specify the actual location and physical attributes of the table and cannot do so.

ERROS, which uses DB/2 as its underlying database, takes this



values or wasted space.

As a result, ERROS allows entity types, individual entities, attribute definitions and individual attribute values or iterations to be referenced, stored and retrieved by name, and/or number and/or date (and time), without any regard to their physical location. Therefore, an **ERROS application developer does not need to design a physical database schema** and indeed cannot do so.

All entity types and their attributes are defined in the **ERROS Connectionist Database**, rather than in program code, as are application definitions, so no program changes are required when new entity types or attributes are defined. The process of defining the business model and the applications is **totally object oriented**. Applications and data are interpreted at very high speed by the ERROS Database Handler. There are no compiled applications.

Most attributes are stored as connections or relationships. **All relationships are bi-directional** and users can browse all connections in either direction at the same very high speed, allowing them **to find connections that they did not know existed**. ERROS applications turn raw data into a semantic knowledge base. The concepts of ERROS have been **patented**.

ERROS solves, with relative ease, a variety of problems for which many developers and even database researchers do not have a generic solution, such as **incremental development**, **many-tomany bi-directional relationships**, **data provenance** or **public and private data**.

ERROS applications achieve a consistent **almost 0 second response time**, even for most queries, as ERROS does not use joins or SQL. Response times do not noticeably degrade as data volumes grow.

The ERROS database handler communicates with the user using a **ready to go graphical interface**. This generates HTML and JavaScript on the fly, so all applications **work immediately over the internet** on Pcs, Macs, tablets and smart phones. Developers do not require HTML skills. It also generates PCL5 for printing.

ERROS allows the incremental creation of advanced applications...

- that integrate very complex, relational and network data structures with limitless levels of hierarchy
- that can handle totally variable length data without Null values or wasted space
- with navigable, bi-directional, many-to-many relationships by default
- with the ability to handle "Big Data" in its 224 bit address space
- without a detailed up-front specification
- without physical database design or database normalisation
- mostly without any program coding
- with very high security that can be set at the field level
- that can 'grow-as-you-go' incrementally
- with almost 0 second response times, even for most queries, as ERROS does not use joins or SQL
- with scalability response times do not noticeably deteriorate as data volumes grow
- that can be run in main memory for maximum performance for very high usage
- with an easy to use graphical interface for browsers and a totally consistent method of operation for all applications

- that can retrieve people, things, etc. by multiple identifiers if their names change
- with concurrency control, high resilience, high data integrity and a high availability option
- with much reduced Total Cost of Ownership for development, maintenance and operations

Data and application definitions are created using ERROS's Open Application Architecture (OAA) using object oriented techniques that allow re-use of all data definitions. These and the application definitions, together with the menus, procedures and the security definitions, are all stored together with the user data in the ERROS Connectionist database. We call ERROS **The Connectionist Framework** as it provides a foundation on which you can build your solutions without needing to spend time building separate layers of database and applications.

Application creation is an extraordinarily productive process in ERROS and **maintenance is dramatically simplified**. Applications can evolve in line with the ever changing real world, solving the costly issue of growing maintenance backlogs. With ERROS, you 'grow-as-you-go'.

ERROS applications are equally suitable for...

- for commerce, including complex transaction processing
- for massive, perhaps global, co-operative databases with different parts of the database being controlled by different businesses or institutions or their experts, scholars or curators
- social business; knowledge sharing & collaboration
- for the apparently unstructured data of the humanities
- for cataloguing collections of any object type, both from the fine arts and elsewhere, and including Union Catalogues containing the holdings of multiple institutions and collectors
- for recording history of any kind, such as employment history or the British 17th century Civil War
- for any domain or database on any topic.

ERROS videos on YouTube

Videos that illustrate the creation of a very simple application are being put up on YouTube. A link to these can be found at

www.erros.co.uk/ERROS_YouTube.htm

As ERROS is so different from other application development methods, it cannot be described in a few sentences and any assumptions about how it works might be misleading. For a PDF copy of the ERROS Description manual, please email Rob Dixon. rob.dixon@erros.co.uk

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concept a large step further. Rather than using the "horizontal" record structure of relational databases, in which related data for, say, a person, are typically stored in a single record, ERROS uses its own patented "vertical" record structure to allow totally mixed record types and variable amounts of data to be stored in the database without Null