

Complex Event Processing

Complex Event Processing (CEP) software is the engine driving next generation event-driven business applications. CEP software allows you to process and analyze high volume event streams to uncover opportunities and threats as they happen, not after the fact.

Applications driven by CEP technology allow you to take advantage of rapidly changing market conditions, get closer to your customers and slash problem resolution time, making your business more agile.

Coral8 Key Features

- High performance server that can analyze thousands to millions of events per second with low latency
- Familiar SQL-based language for fast development of CEP applications
- Powerful language extensions such as Pattern Matching and Native XML processing
- Parallel and asynchronous database integration for high-performance event storage
- Configurable enterprise-class clustering for parallel and distributed processing
- Easy configuration and provisioning for rapid application deployment and change

The fastest path to powerful Complex Event Processing applications

Building and deploying real-time business applications has traditionally been an expensive proposition, requiring custom development and infrastructure software that was not optimized for this task. The high development, maintenance and administration cost has isolated real-time applications to a limited set of projects.

Coral8 Engine changes the cost structure for real-time applications. Its innovative yet familiar infrastructure solution makes implementing applications faster and easier – applications that analyze millions of events occurring each day. Through three simple attributes – Easy to Develop, Easy to Scale and Easy to Deploy – Coral8 Engine enables you to build and deploy powerful Complex Event Processing (CEP) applications for any enterprise business function that can benefit from real-time awareness and execution.

EASY TO DEVELOP

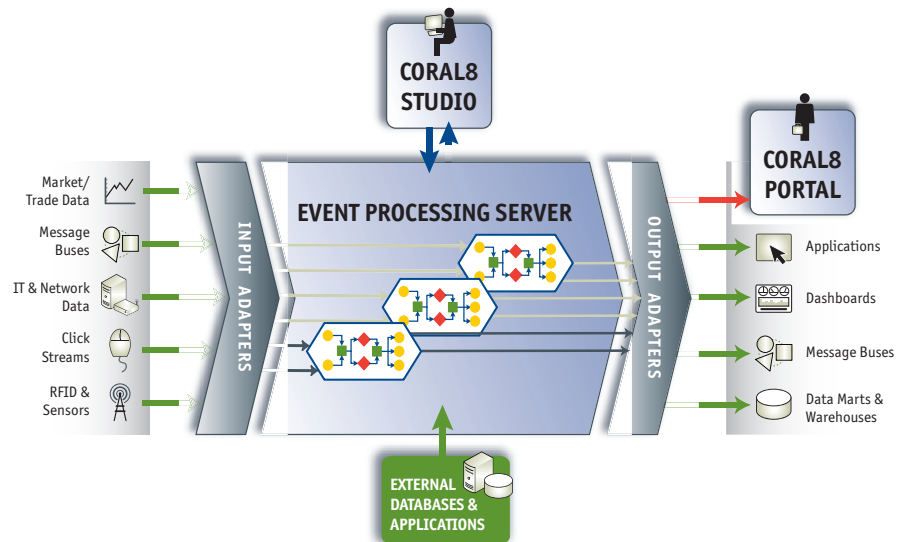
The Coral8 programming language and model is based on SQL, giving developers a familiar environment that leverages existing skills. Integrated language extensions make it simple to implement powerful event processing syntax, such as pattern matching, in a single line of code.

EASY TO SCALE

The highly parallel Coral8 architecture drives high-throughput, low-latency processing in single server and distributed clustering configurations, enabling applications to analyze the highest volume event streams. Coral8 Engine maintains this performance when enriching streams with stored data.

EASY TO DEPLOY

The Coral8 architecture, built on an enterprise-class server infrastructure, makes deployment, management, and change easy. The result is lowered administrative costs while enabling IT teams to easily distribute and manage CEP applications anywhere in the enterprise.



Features and Functionality

HIGH THROUGHPUT / LOW LATENCY

The lightweight streaming architecture of Coral8 Engine enables parallel execution of continuous queries on high-speed data. The Coral8 engine has been benchmarked processing millions of events per second for simple queries and thousands of events per second for complex queries.

HIGH-SPEED DATA INTEGRATION

External data plays a critical role in CEP applications. Reference and historical data provide context to the real-time processing. CEP engines need to offer plug-n-play integration with relational databases and applications optimized for real-time execution. Coral8 Engine offers powerful, native integration with RDBMS through native language sub-queries and asynchronous, parallel writes. The RPC/RFC Plug-In enables rapid integration with external applications and functions. Both of these features work with Coral8 Engine's transparent, high-speed data cache to maintain high-throughput and low-latency in CEP applications.

CONFIGURABLE CLUSTERING

Coral8 Engine contains flexible, enterprise-class clustering features for rapidly configurable application scaling with no programming required.

Parallel, pipelined and high availability clusters can be configured individually or in mixed configurations. Developers can partition parallel and pipelined clusters by simple GUI operations. In addition, state persistence and guaranteed message delivery options ensure fast recovery from system failures.

CCL: POWERFUL, FAMILIAR LANGUAGE

The powerful Coral8 Continuous Computation Language (CCL) is based on SQL, giving programmers a familiar environment to build CEP applications and eliminating much of the developer learning curve. CCL adds integrated extensions such as windows, time series operations, and output control for event processing execution.

CCL offers unmatched, powerful event pattern matching syntax – a technique required in many real-world CEP applications. CCL uses in an integrated “Matching” clause to look for event patterns, allowing the easy expression of elaborate event patterns that would otherwise require complex coding.

NATIVE XML PROCESSING

Service Oriented Architectures (SOA) and industry standard data formats have increased the volume of XML-based event streams. To maintain high throughput, a CEP engine must avoid the CPU-consuming process of shredding XML data streams.

Coral8 Engine contains native XML functionality in all phases of a CEP application: consumption, processing and publishing. This maximizes throughput, simplifies programs that process XML streams, and enables applications to generate context-rich output streams and alerts. The CCL XML functions are based on SQL/XML and XPath for developer familiarity.

LOW COST ADMINISTRATION

Coral8 Engine is based on a flexible, configurable server architecture that makes deployment, management and change simple, supporting low administrative overhead and cost. Servers, clusters and clients can be easily configured and added. Query modules and application components can be dynamically deployed and changed without server re-start or application disruption.

LIFECYCLE DEVELOPMENT & TESTING

The Coral8 Studio provides a graphical environment for developing, testing and deploying Coral8 applications. Developers can graphically organize projects and deploy these on any Coral8 Server. Application components can be managed through the full development life-cycle. Integrated stream viewers and step-debugging facilitate debugging and back-testing.

Product Specifications

| OPERATING SYSTEMS | PROCESSORS | DATABASE SUPPORT | SDK APIS | ADAPTERS* | | 3RD PARTY ADAPTERS* |
|-------------------|---------------------|------------------|------------|-----------------|--------------|---------------------|
| Windows XP | Intel (32 & 64 bit) | IBM DB2 | C/C++ | TIBCO | E-mail | Wombat |
| Windows Server | AMD (32 & 64 bit) | MS SQL Server | Java | JMS | MS Excel | Tealeaf CX |
| Red Hat Linux | | Oracle | .Net/C# | WebSphere MQ | ODBC/JDBC | Radware Inflight |
| SuSE Linux | | Sybase | Perl | MS MQ | Data Files | IBM RFID IC |
| Fedora Linux | | ANTs data server | Python | Web Server Logs | SOAP | |
| FreeBSD | | MySQL | Adobe Flex | SNMP | Sockets | |
| Solaris | | Any ODBC/JDBC | | MS Event Log | Custom (SDK) | |
| | | | | RSS/ATOM | | |

* Please check the Coral8 website for the latest list of available adapters

About Coral8

Based in Mountain View, Calif., Coral8, Inc. is a leading provider of software for Complex Event Processing (CEP). Bringing together high-performance, an innovative SQL-based programming language and enterprise-class features, the Coral8 solution is the fastest, lowest cost way to build and deploy powerful new CEP applications. For more information, or to join the many developers who have freely downloaded the Coral8 engine, please visit us at www.coral8.com.

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