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### A Open Source Software License Text
- A.1 Apache Batik SVG Toolkit 1.9 License
- A.2 Apache Batik SVG Toolkit 1.10 License
- A.3 Apache Commons Math 3.6.1 License
- A.4 Apache Tomcat 8.5.32 License
- A.5 Font Awesome 4.5 License
- A.6 GeoNames Data 1.1.11 License
- A.7 Geospatial Data Abstraction Library/OpenGIS Simple Features Reference Implementation (GDAL/OGR) 2.1 License
- A.8 JavaScript Extension Toolkit (JET) 2.0.2 License
- A.9 JavaScript Extension Toolkit (JET) 3.0.0 License
- A.10 JavaScript Extension Toolkit (JET) 3.2.0 License
- A.11 Kerberos 1.15 License
- A.12 Perl Interpreter 5.22.0 License
- A.13 Protocol Buffers (aka Google protobuf) 3.5.1
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Preface

This guide provides information about Oracle Database Express Edition licensing.

- Audience
- Documentation Accessibility
- Related Documents
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Audience

This book is intended for anyone responsible for installing Oracle Database 18c Express Edition.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

For more information, see these Oracle resources:

- Oracle Database Licensing Information User Manual for information on other Oracle Database offerings
- Oracle Database New Features Guide for more information about the new features to this release

Conventions

The following text conventions are used in this document:
<table>
<thead>
<tr>
<th>Convention</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>boldface</strong></td>
<td>Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.</td>
</tr>
<tr>
<td><em>italic</em></td>
<td>Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.</td>
</tr>
<tr>
<td><strong>monospace</strong></td>
<td>Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.</td>
</tr>
</tbody>
</table>
1 Licensing Information

Welcome to the Oracle Database Express Edition Licensing Information. This guide covers the following Oracle Database Express Edition (Oracle Database XE) topics:

- Oracle Database Express Edition License Agreement
- Features Availability
- Third-Party Licenses
- Documentation Accessibility

1.1 Oracle Database Express Edition License Agreement

To use this license, you must agree to the Oracle Technology Network Developer License Terms for Oracle Database Express Edition, which are described on the following Oracle Technology Network website:

https://www.oracle.com/technetwork/licenses/db18c-express-license-5137264.html

1.2 Features Availability

- Permitted Features, Options, and Management Packs in Oracle Database XE
- Additional Components

1.2.1 Permitted Features, Options, and Management Packs in Oracle Database XE

The tables in this section list Oracle Database features, Oracle Database options, and Oracle management packs, and their availability in Oracle Database Express Edition.

These tables can help you understand if the Oracle Database Express Edition offering is right for you. The \( \text{Y} \) value in a column means that the feature, option, or pack is available; \( \text{N} \) means that it is unavailable; \( \text{N/A} \) means that it is not applicable.

The tables are organized into the following functional categories:

- Consolidation - Table 1-1
- Development Platform - Table 1-2
- High Availability - Table 1-3
- Integration - Table 1-4
- Manageability - Table 1-5
- Networking - Table 1-6
- Performance - Table 1-7
- Scalability - Table 1-8
- Security - Table 1-9
- Snapshots and Cloning - Table 1-10
- Spatial and Graph Data - Table 1-11
- VLDB, Data Warehousing, and Business Intelligence - Table 1-12

### Table 1-1 Consolidation

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Oracle Multitenant - # of PDBs</td>
<td>Y</td>
<td>Maximum of 3 PDBs</td>
</tr>
<tr>
<td>CDB Fleet Management</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>PDB Snapshot Carousel</td>
<td>N</td>
<td></td>
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<tr>
<td>Refreshable PDB switchover</td>
<td>N</td>
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### Table 1-2 Development Platform

<table>
<thead>
<tr>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>SQLJ</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Microsoft Distributed Transaction Coordinator support</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>Native .NET Data Provider—ODP.NET</td>
<td>Y</td>
<td>Windows only</td>
</tr>
<tr>
<td>.NET Stored Procedures</td>
<td>Y</td>
<td>Windows only</td>
</tr>
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</table>

### Table 1-3 High Availability

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Continuity</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Sharding</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Fail Safe</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle RAC One Node</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Redo Apply</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Far Sync Standby</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—SQL Apply</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Snapshot Standby</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Real-Time Cascading Standbys</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Data Guard—Automatic Correction of Non-logged Blocks at a Data Guard Standby Database</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Active Data Guard</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Rolling Upgrades—Patch Set, Database, and Operating System</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Rolling Upgrades Using Active Data Guard</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Online index rebuild</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Online table organization</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Online table redefinition</td>
<td>Y</td>
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### Table 1-3  (Cont.) High Availability

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
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<tbody>
<tr>
<td>Duplexed backup sets</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Block change tracking for fast incremental backup</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Unused block compression in backups</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Block-level media recovery</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Lost Write Protection</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Automatic Block Repair</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Parallel backup and recovery</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Tablespace point-in-time recovery</td>
<td>N</td>
<td></td>
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<tr>
<td>Trial recovery</td>
<td>Y</td>
<td></td>
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<tr>
<td>Fast-start fault recovery</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Table</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Database</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Flashback Transaction</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Flashback Transaction Query</td>
<td>N</td>
<td></td>
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<tr>
<td>Optimization for Flashback Data Archive</td>
<td>N</td>
<td></td>
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<tr>
<td>Online Datafile Move</td>
<td>N</td>
<td></td>
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<tr>
<td>Transaction Guard</td>
<td>N</td>
<td></td>
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<tr>
<td>Cross-platform Backup and Recovery</td>
<td>Y</td>
<td></td>
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<tr>
<td>Global Data Services</td>
<td>N</td>
<td></td>
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<tr>
<td>Recovering tables and table partitions from RMAN backups</td>
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### Table 1-4  Integration

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<tr>
<th>Feature/Option/Pack</th>
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<tbody>
<tr>
<td>Oracle Streams</td>
<td>N</td>
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<tr>
<td>Database Gateways</td>
<td>N</td>
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<tr>
<td>Messaging Gateway</td>
<td>N</td>
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<tr>
<td>Sharded Queues</td>
<td>Y</td>
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</tbody>
</table>

### Table 1-5  Manageability

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Cloud Management Pack for Oracle Database</td>
<td>N</td>
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<tr>
<td>Oracle Data Masking and Subsetting Pack</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Database Lifecycle Management Pack for Oracle Database</td>
<td>N</td>
<td></td>
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<tr>
<td>Oracle Diagnostics Pack</td>
<td>N</td>
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<tr>
<td>Oracle Tuning Pack</td>
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### Table 1-5  (Cont.) Manageability

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oracle Real Application Testing</td>
<td>N</td>
<td></td>
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<tr>
<td>Database Resource Manager</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>I/O Resource Management</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Instance Caging</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>SQL Plan Management</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>SQL Tuning Sets</td>
<td>N</td>
<td></td>
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<tr>
<td>Rapid Home Provisioning</td>
<td>N</td>
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</table>

### Table 1-6  Networking

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<thead>
<tr>
<th>Feature/Option/Pack</th>
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<tr>
<td>Infiniband support</td>
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<td></td>
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<tr>
<td>Oracle Connection Manager</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Network Compression</td>
<td>Y</td>
<td></td>
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</tbody>
</table>

### Table 1-7  Performance

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Client Side Query Cache</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Query Results Cache</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>PL/SQL Function Result Cache</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Oracle TimesTen Application-Tier Database Cache</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Database Smart Flash Cache</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Support for Oracle Exadata Storage Server Software</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Adaptive Execution Plans</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Concurrent Execution of \texttt{UNION} and \texttt{UNION ALL} Branches</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>In-Memory Column Store</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>In-Memory Column Cache on Storage Servers</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>In-Memory Column Store on Active Data Guard standby</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Fault Tolerant In-Memory Column Store</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Automatic In-Memory Column Store</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>In-Memory Column Store support for External Tables</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>In-Memory Aggregation</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>MemOptimized Row Store</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Attribute Clustering</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Zone Maps</td>
<td>N</td>
<td></td>
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</tbody>
</table>
### Table 1-8  Scalability

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
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<tbody>
<tr>
<td>Oracle Real Application Clusters (Oracle RAC)</td>
<td>N</td>
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<tr>
<td>Automatic Workload Management</td>
<td>N</td>
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<tr>
<td>Quality of Service Management</td>
<td>N</td>
<td></td>
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<tr>
<td>Oracle NoSQL Database Basic Edition</td>
<td>N</td>
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### Table 1-9  Security

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Column-Level Encryption</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Tablespace Encryption</td>
<td>Y</td>
<td>TDE online method to encrypt/rekey/decrypt an existing tablespace is not supported. See Oracle Advanced Security Guide for details</td>
</tr>
<tr>
<td>Oracle Advanced Security</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Oracle Database Vault</td>
<td>Y</td>
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<tr>
<td>Oracle Label Security</td>
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<tr>
<td>Enterprise User Security</td>
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<tr>
<td>Centrally Managed Users</td>
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<td></td>
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<tr>
<td>Fine-grained auditing</td>
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<td>Privilege Analysis</td>
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<td>Real Application Security</td>
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<tr>
<td>Redaction</td>
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<tr>
<td>Transparent Sensitive Data Protection</td>
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<tr>
<td>Virtual Private Database</td>
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<tr>
<td>Keystore for Each Pluggable Database</td>
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### Table 1-10  Snapshots and Cloning

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
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<tr>
<td>Storage Snapshot Optimization</td>
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### Table 1-11  Spatial and Graph Data

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
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<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Oracle Spatial and Graph</td>
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### Table 1-11  (Cont.) Spatial and Graph Data

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Property Graph and RDF Graph Technologies (RDF/OWL)</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel spatial index builds</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Multimaster replication of SDO_GEOMETRY objects</td>
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<td></td>
</tr>
<tr>
<td>Partitioned spatial indexes</td>
<td>Y</td>
<td></td>
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</table>

### Table 1-12  VLDB, Data Warehousing, and Business Intelligence

<table>
<thead>
<tr>
<th>Feature/Option/Pack</th>
<th>Availability</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>Oracle Partitioning</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Oracle On-Line Analytical Processing (OLAP)</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Analytics</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Oracle Advanced Compression</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Advanced Index Compression</td>
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</tr>
<tr>
<td>Prefix Compression (also called Key Compression)</td>
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<tr>
<td>Hybrid Columnar Compression</td>
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<td></td>
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<tr>
<td>Hybrid Columnar Compression Row-Level Locking</td>
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<tr>
<td>Exadata Flash Cache Compression</td>
<td>N</td>
<td></td>
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<tr>
<td>Heat Map</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Automatic Data Optimization</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Basic Table Compression</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Deferred Segment Creation</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Bitmapped index, bitmapped join index, and bitmap plan conversions</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Parallel query/DML</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Parallel statistics gathering</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Parallel index build/scans</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Parallel Data Pump Export/Import</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>In-memory Parallel Execution</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Parallel Statement Queuing</td>
<td>N</td>
<td></td>
</tr>
<tr>
<td>Parallel capture and apply via XStream</td>
<td>N</td>
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<tr>
<td>Transportable table spaces, including cross-platform and full transportable export and import</td>
<td>N</td>
<td></td>
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<tr>
<td>Summary management—Materialized View Query Rewrite</td>
<td>Y</td>
<td></td>
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</tbody>
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### 1.2.2 Additional Components

The following development platforms are not included with Oracle Database XE. You can download them separately and use them with XE

- Oracle SQL Developer
• Oracle Application Express (APEX)
• Oracle Developer Tools for Visual Studio
• Oracle REST Data Services (ORDS)

1.3 Third-Party Licenses

This section includes third-party license information for all third-party products included with Oracle Database Express Edition (XE). Oracle acknowledges that following Third Party and Open Source software are used in the provided programs covered by this documentation.

1.3.1 Commercial Software

Commercial software products or components distributed in Oracle Database 18c are identified in the following table along with the applicable licensing information.

Table 1-13  Commercial Software

<table>
<thead>
<tr>
<th>Provider</th>
<th>Component(s)</th>
<th>Licensing Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>DataDirect</td>
<td>DataDirect Technology</td>
<td>The DataDirect component provided with this Oracle Program is distributed only for use with Oracle Program.</td>
</tr>
<tr>
<td>Frederico Caldiera Knabben (FredCK.com)</td>
<td>CKEditor 4.5.11</td>
<td>© 2003 - 2010 CKSource - Frederico Knabben. All rights reserved. This product is licensed under the Apache 2.0 license agreement. See The Apache Software License, Version 2.0.</td>
</tr>
<tr>
<td>MapInfo Corp.</td>
<td>Projections Code 1.0</td>
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cvs -d :pserver:anonymous@cvs-mirror.mozilla.org:/cvsroot \
   co -D2006-11-20 mozilla/js/rhino

The patch is available here:

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org.mozilla.javascript.tools.debugger.downloaded.AbstractCellEditor.java
org.mozilla.javascript.tools.debugger.downloaded.JTreeTable.java
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- javaee_web_services_1_2.xsd
- javaee_web_services_client_1_2.xsd
- javaee_6.xsd
- javaee_web_services_1_3.xsd
- javaee_web_services_client_1_3.xsd
- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
- javaee_7.xsd
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- javaee_web_services_client_1_4.xsd
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- jsp_2_2.xsd
- web-app_3_0.xsd
- web-common_3_0.xsd
- web-fragment_3_0.xsd
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- javaee_web_services_1_4.xsd
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Version 1.1 - 26 February 2007

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gdal/frmts/gtiff/tif_float.c

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`gdal/frmts/hdf4/hdf-eos/*`

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=== knockout-amd helpers 0.7.3 ===

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=== Normalize.css ===

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=== RequireJS i18n 2.0.2 ===

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=== jsTree 1.0-rc3 ===

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=== Select2.js ===

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=== ES6-Promise v1.0.0 ===

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== Knockout.js 3.4.0 ==

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Normalize.css

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== jQuery UI - v1.11.4 ==

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=== jQuery UI - v1.11.4 ===

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The implementations of GSSAPI mechglue in GSSAPI-SPNEGO in src/lib/gssapi, including the following files:

lib/gssapi/generic/gssapi_err_generic.et
lib/gssapi/mechglue/g_accept_sec_context.c
lib/gssapi/mechglue/g_acquire_cred.c
lib/gssapi/mechglue/g_canon_name.c
lib/gssapi/mechglue/g_compare_name.c
lib/gssapi/mechglue/g_context_time.c
lib/gssapi/mechglue/g_delete_sec_context.c
lib/gssapi/mechglue/g_dsp_name.c
lib/gssapi/mechglue/g_dsp_status.c
lib/gssapi/mechglue/g_dup_name.c
lib/gssapi/mechglue/g_exp_sec_context.c
lib/gssapi/mechglue/g_export_name.c
lib/gssapi/mechglue/g_glue.c
lib/gssapi/mechglue/g_imp_name.c
lib/gssapi/mechglue/g_imp_sec_context.c
lib/gssapi/mechglue/g_init_sec_context.c
lib/gssapi/mechglue/g_initialize.c
lib/gssapi/mechglue/g_inquire_context.c
lib/gssapi/mechglue/g_inquire_cred.c
lib/gssapi/mechglue/g_inquire_names.c
lib/gssapi/mechglue/g_process_context.c
lib/gssapi/mechglue/g_rel_buffer.c
lib/gssapi/mechglue/g_rel_cred.c
lib/gssapi/mechglue/g_rel_name.c
lib/gssapi/mechglue/g_rel_oid_set.c
lib/gssapi/mechglue/g_seal.c
lib/gssapi/mechglue/g_sign.c
lib/gssapi/mechglue/g_store_cred.c
lib/gssapi/mechglue/g_unseal.c
lib/gssapi/mechglue/g_userok.c
lib/gssapi/mechglue/g_utils.c
lib/gssapi/mechglue/g_verify.c
lib/gssapi/mechglue/gssd_pname_to_uid.c
lib/gssapi/mechglue/mglueP.h
lib/gssapi/mechglue/oid_ops.c
lib/gssapi/spnego/gssapiP_spnego.h
lib/gssapi/spnego/spnego_mech.c

and the initial implementation of incremental propagation, including the following new
or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
slave/kpropd_rpc.c
slave/kpropdlog.c

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Floating point exception control

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MD5 message digest algorithm

```
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```
L. Peter Deutsch
ghost@aladdin.com

Independent implementation of MD5 (RFC 1321).

This code implements the MD5 Algorithm defined in RFC 1321, whose text is available at

http://www.ietf.org/rfc/rfc1321.txt

The code is derived from the text of the RFC, including the test suite (section A.5) but excluding the rest of Appendix A. It does not include any code or documentation that is identified in the RFC as being copyrighted.

The original and principal author of md5.h is L. Peter Deutsch <ghost@aladdin.com>. Other authors are noted in the change history that follows (in reverse chronological order):

2002-04-13 lpd Removed support for non-ANSI compilers; removed references to Ghostscript; clarified derivation from RFC 1321; now handles byte order either statically or dynamically.

1999-11-04 lpd Edited comments slightly for automatic TOC extraction.

1999-10-18 lpd Fixed typo in header comment (ansi2knr rather than md5); added conditionalization for C++ compilation from Martin Purschke <purschke@bnl.gov>.

1999-05-03 lpd Original version.

Asynchronous socket services

-------------------------------------

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UUencode and UUdecode functions

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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

XML Remote Procedure Calls

---------------------------------------

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strtod and dtoa
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#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
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Mersenne Twister

--------------------------

The :mod:`_random` module includes code based on a download from http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/MT2002/emt19937ar.html. The following are the verbatim comments from the original code:

A C-program for MT19937, with initialization improved 2002/1/26.
Coded by Takuji Nishimura and Makoto Matsumoto.

Before using, initialize the state by using init_genrand(seed) or init_by_array(init_key, key_length).

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http://www.math.sci.hiroshima-u.ac.jp/~m-mat/MT/emt.html

email: m-mat@math.sci.hiroshima-u.ac.jp (remove space)

Sockets

-------------

The :mod:`socket` module uses the functions, :func:`getaddrinfo`,
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UUencode and UUdecode functions
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Modified by Jack Jansen, CWI, July 1995:

- Use binascii module to do the actual line-by-line conversion between ascii and binary. This results in a 1000-fold speedup. The C version is still 5 times faster, though.
- Arguments more compliant with Python standard

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SipHash24

------------------

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Original location:

https://github.com/majek/csiphash/

Solution inspired by code from:

Samuel Neves (supercop/crypto_auth/siphash24/little)
djb (supercop/crypto_auth/siphash24/little2)
Jean-Philippe Aumasson (https://131002.net/siphash/siphash24.c)
strtod and dtoa

------------------------

The file :file:`Python/dtoa.c`, which supplies C functions dtoa and strtod for conversion of C doubles to and from strings, is derived from the file of the same name by David M. Gay, currently available from http://www.netlib.org/fp/. The original file, as retrieved on March 16, 2009, contains the following copyright and licensing notice::

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-------

The implementation of the hash table used by the :mod:`tracemalloc` is based on the
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# Original version written by Greg Stein (gstein@lyra.org)
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# February 1997.
#
# Modifications and improvements for Python 2.0 by Jeremy Hylton and
# Mark Hammond
#
# Some fixes to try to have correct line number on almost all nodes
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Tools/pynche/X/xlicense.txt

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Lib/statistics.py

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