Encryption Wizard for Oracle - Benchmark
Relational Database Consultants, Inc.
www.relationalwizards.com

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Performed By:
Advanced Information Systems, Inc.
www.advanis.com

Hardware Platform:
HP AMD Dual Core 2.60 Ghz.
500 Gigabyte IDE Drive; 3 Gigabytes RAM;

Operating System:
Windows Vista

Encryption Wizard Version:
5.2.0.1

Database Platform:
Oracle 10g Version 10.2.0.3

SGA:
Total System Global Area 612368384 bytes
Fixed Size 1292036 bytes
Variable Size 213911804 bytes
Database Buffers 390070272 bytes
Redo Buffers 7094272 bytes

Table Encrypted:
SCOTT.EMP

Column Encrypted:
ENAME

Number of Rows:
One million rows

<table>
<thead>
<tr>
<th>Encryption Type</th>
<th>Encryption Time</th>
<th>Decryption Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>RDC Obfuscation</td>
<td>00:02:32.11</td>
<td>00:01:35.09</td>
</tr>
<tr>
<td>Oracle DES</td>
<td>00:03:49.41</td>
<td>00:01:51.51</td>
</tr>
<tr>
<td>Oracle Triple DES</td>
<td>00:03:42.09</td>
<td>00:01:51.04</td>
</tr>
<tr>
<td>Oracle AES 128</td>
<td>00:03:20.12</td>
<td>00:01:49.83</td>
</tr>
<tr>
<td>Oracle AES 256</td>
<td>00:03:08.47</td>
<td>00:01:53.33</td>
</tr>
</tbody>
</table>