Oracle Rdb V7.1.0.5 Optimized for Alpha EV56 Processor and Later Platforms

A feature of Oracle Rdb

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For improved performance on current generation Alpha processors, Oracle Rdb Release 7.1.0.5 (also known as V7.1-05) is compiled explicitly for the Alpha EV56 and later systems. This version of Oracle Rdb requires a system with a minimum Alpha processor chip of EV56 and a maximum processor chip of Alpha EV68 (known as the Alpha 21264B) family.

Oracle Rdb V7.1.0.5 is functionally equivalent to Oracle Rdb release 7.1.0.4. It shares the same source code, uses the same data structures, call interfaces, and so on as Oracle Rdb Release 7.1.0.4. The difference is a potentially improved level of performance due to Release 7.1.0.5 being compiled with optimizations for newer alpha processors.

Oracle Rdb V7.1.0.5 is explicitly compiled for EV56 and later Alpha processors such that the generated instruction stream can utilize the byte/word extension (BWX) of the Alpha architecture first available with the Alpha EV56 (21164) processor. Additionally, this kit is compiled with instruction tuning biased for performance of Alpha EV6 and later systems that support quad-issue instruction scheduling.

Note that you should not attempt to install or run this version of Oracle Rdb on Alpha EV4, EV45 or EV5 systems. These processor types do not support the required byte/word extension (BWX) of the Alpha architecture. An install-time check verifies that the installation node is using an Alpha EV56 processor or higher. Attempts to install on Alpha EV4, EV45 or EV5 systems results in a fatal error during the installation procedure. You should also ensure that systems in a cluster sharing the system disk are also using the Alpha EV56 or higher processor.

To easily determine the processor type of a running OpenVMS Alpha system, use the CLUE CONFIG command of the OpenVMS System Analyzer utility (accessed with the ANALYZE/SYSTEM command). The "CPU TYPE" field indicates the processor type.

For additional information about the Alpha processor, please refer to the "Alpha Architecture Handbook".