

## Question

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## Recommendations for server configuration

I have been asked to assist in the planning of the a new server for our database, which we will be changing operating systems from OpenVMS to Linux (RedHat distribution). However, its difficult to find material regarding what would be recommended, which is likely due to the database being proprietary.

In looking at the information provided below and hoping to decrease processing time, would anyone be able to recommend type of configuration we should have for the new Linux server? Please feel free to ask any clarifying questions.

The current server is running with the following hardware configuration.

|                                         |                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------|
| Total Physical Memory                   | 64 GB DDR2                                                            |
| Memory Allocated for Routine Cache      | 3,584 MB                                                              |
| Memory Allocated for 2KB Database Cache | 512 MB                                                                |
| Memory Allocated for 8KB Database Cache | 43,496 MB                                                             |
| Processors (CPU)                        | 4 x Dual-Core Intel Itanium McKinley, 1.594GHz, L1: 32 KB, L2: 256 KB |
| Concurrent Users                        | 158                                                                   |

If it helps, the following is from the System Dashboard

|                     |               |
|---------------------|---------------|
| System Up Time      | 13h 21m       |
| Globals/Second      | 11,913.83     |
| Global Refs         | 6,295,590,389 |
| Global Sets         | 248,697,076   |
| Routine Refs        | 1,160,200,605 |
| Logical Requests    | 5,585,768,243 |
| Disk Reads          | 10,588,557    |
| Disk Writes         | 8,158,173     |
| Cache Efficiency    | 335.86        |
| Journal Entries     | 147,074,538   |
| Highest License Use | 78%           |

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