



Hardware Guidelines

Updated: December 10, 2011

The Unified Reports server provides excellent user scalability, and makes efficient use of added CPU and RAM resources, with an approximately linear performance improvement by adding processing resources (along with corresponding RAM resources).

This document is intended to provide broad guidelines to customers for hardware capacity planning purposes, based on typical usage of Nimsoft products. Exact hardware requirements can be affected by many factors including: intensity of user activity (e.g. think-time), query result sizes, RDBMS response times, processor and RAM performance, ratio of concurrent users to named users, etc.)

Concurrent Users	UnifiedReportsServer Production Reporting (Running/Scheduling Reports Built Using iReport)		UnifiedReportsServer Ad Hoc Report Design	
	CPU Cores	RAM GB	CPU Cores	RAM GB
25	2	2	2	2
50	2	2	2	4
100	2	2	2	6
250	2	4	4	4
500	4	4	8	8
750	4	8	8	16
1000	4	16	8	32

Assumptions

- 1 Concurrent user is a user actively using the system
- 2 Assumes typical think-time of 20 seconds between end-user operations
- 3 Assumes RDBMS is running on separate server
- 4 Recommendation is minimum of 2 GB RAM per CPU
- 5 Recommendations apply to Windows, OS X, UNIX, and Linux machines
- 6 Processors are minimum of 2 GHz
- 7 Assumes <= 5 seconds response time
- 8 Assumes report/analysis result set size of ~1000 rows/50 pages with 16 columns
- 9 Typical ratio of named vs. concurrent users ranges from 20:1 to 100:1
- 10 Guidelines apply to both physical and virtualized hardware resources
- 11 Guidelines apply to single-server and clustered-server configurations