



Oracle Database Semantic Technologies Performance Summary for Sun M8000 Server

Oracle Performs Best on a Balanced Hardware Setup!

Degrees of Parallelism	Data set	Load (B triples/min.)	OWL Inference (B triples/min.)	Query (B answers/min.)
128	LUBM 25K	3.4B/105'	2.7B/160'	0.47B/8.7'
64	LUBM 25K	3.4B/186'	2.7B/210'	0.47B/12.3'

Setup:

Balanced Hardware: Sun M8000 -- 16 SPARC64 VII+ 3.0 GHz CPUs [64 total Cores 128 Parallel Threads] -- 512 GB Ram -- Dual F5100 Flash Arrays (160 total drives)

Storage required: 900GB + 300GB of temporary table space

Software: Oracle Database 11.2.0.2.0 + Patch 9825019: SEMANTIC TECHNOLOGIES
11G R2 FIX BUNDLE 3

SGA_TARGET=256G and PGA_AGGREGATE_TARGET=206G