

Configuration 4: Load Performance on 64 Bit Intel Server

Data Set	Triples Loaded	Time ¹	Degrees of Parallelism
Uniprot	2.083B	7h, 33'	DOP = 32
Uniparc	920M	2h, 5'	DOP = 32
Uniref	620M	1h, 39'	DOP = 32

¹ Does not include time to convert data from RDF/XML to Ntriple format ,and load staging table .

Hardware:

32GB RAM, CPUs: 16 Cores Intel(R) Xeon(R) CPU X7350 @ 2.93GHz

Storage:

120GB Flash (used for Database Smart Flash Cache (flash cache))

480GB Sun F5100 flash array (used for temporary table space)

2 x 2TB (used to hold data for the semantic network)

Software:

64 Bit Linux 2.6.18-194.26.1.0.1.el5 #1 SMP x86_64

Version 11.2.0.2.0 w/ Patch 9819833: SEMANTIC TECHNOLOGIES 11G R2 FIX BUNDLE 2

Database configuration:

SGA 14GB, PGA 16GB, DB_FLASH_CACHE_SIZE 100GB

Loading options used : flags=>' PARSE PARALLEL_CREATE_INDEX PARALLEL=32
mbv_method=shadow

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Configuration 4: Inference on 64 bit Intel Server

Data Set (# triples)	Triples Inferred	Time	Degrees of Parallelism
Uniprot, Uniparc, Uniref (3.62B)	3.3B	6h, 57'	DOP = 32

- **Inference:** OWLPrime + components:
INTERSECT, INTERSECTSCOH, SVFH
- **Options used:** OPT_SAMEAS=T, DOP=32