Hive and Hyper-Search Mathematical Representation

# Hive

Standard calculation for the series of expansions.

In “Hiving” 50 repositories, ECM Library would automatically create 2525 neural links between the repositories.

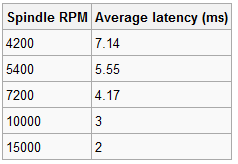
# Hyper Search:

Estimated number of required searches using today’s technology.

= Estimated searches using Hyper Search on a known key value

Note: For example, using Hyper Search, to find any given key in 1,000,000,000,000,000 pieces of data would take “32 physical IO’s to the disk and would execute in approximately (assuming no warm up),

4.17 MS to initiate the search and (Nbr of items to be Searched) X the disk’s seek time.



In other words to search an Exabyte of data for a given key on a 7200 RPM disk should take about 4.17 + (32 X 1.76 MS) = 4.17 MS + 56.32 MS = 60.49 MS. In other words, “Don’t blink.” As you will miss all the action.