

Estimated cost of RAM and disk space with and without using suballocation and compression

Cost per MB RAM		\$50			
Cost per MB disk		\$1			
		w/o S&C	w/ S&C	w/o S&C	w/ S&C
Volume size (vs) [K]		1024000	1024000	1024000	1024000
Block size (bs) [K]		64	64	32	32
Average file size (afs) [K]		35	35	35	35
Blocks on disk (vs/bs)		16000	16000	32000	32000
Directory entries (vs/afs)		29257	29257	29257	29257
Mem for FAT tables [K]		1312	1312	2624	2624
Mem for suballocation [K]		0	666	0	404
Mem for compression (250K)		0	250	0	250
Mem for dir entries [K]		293	293	293	293
Cost of RAM		\$80	\$126	\$146	\$179
Wasted Space:					
Ave wasted space/file		35%	35%	35%	35%
Ave wasted space/file [bytes]		22938	179	11469	179
Without compression [K]		512000	0	512000	0
Max w/o suballocation [K]		655357	5120	327678	5120
Cost of wasted disk space		\$1167	\$5	\$840	\$5
Estimated Total Cost		\$1248	\$131	\$986	\$184

Block size	w/o S&C	with S&C
64K	\$1248	\$131
32K	\$986	\$184
16K	\$953	\$308
8K	\$1133	\$567

The purpose of this spreadsheet is to estimate how much RAM and disk storage can be saved by implementing NetWare 4's compression and suballocation features. The formulae were developed by Novell engineers, and the results are only estimates.

How to use:

Adjust the following parameters to better suit your needs:

Cost per MB RAM	The cost to add 1MB of RAM to the server
Cost per MB disk	The cost for each MB of disk storage
Volume size (vs) [K]	The server's volume size (in KB)
Average file size (afs) [K]	The average file size on the server (in KB)

To get more accurate results, use the utility SSAVER, available on NetWire.

in NetWare 4

w/o S&C	w/ S&C	w/o S&C	w/ S&C
1024000	1024000	1024000	1024000
16	16	8	8
35	35	35	35
64000	64000	128000	128000
29257	29257	29257	29257
5248	5248	10496	10496
0	273	0	208
0	250	0	250
293	293	293	293
\$277	\$303	\$539	\$562
35%	35%	35%	35%
5734	179	2867	179
512000	0	512000	0
163839	5120	81920	5120
\$676	\$5	\$594	\$5
\$953	\$308	\$1133	\$567