Netware Memory Calculation

Enter data into cells underlined in red

Step 1: Calculate the following variables

V1. Enter the *TOTAL* number of megabytes connected to the server | 105,472
(enter 1 for each Mb and 1024 for each GB.)
Enter '1' for mirroring/duplexing, otherwise enter '0'. | 0

V2. Calculate the number of megabytes of USABLE disk space connected | 105,472
to the server (for mirroring or duplexing multiply V1*.5)

V3. Enter the server volume block size (4, 8, 16, 32 or 64) | 64
Enter '1' if suballocation is enabled, otherwise enter '0'. | 1

V4. Calculate the number of disk blocks per Mb (divide 1024/V3) | 16

V5. Calculate the total number of disk blocks. (Multiply V2 * V4) | 1,687,552

V6. Enter the maximum number of clients (workstations) attached to the server. | 750

V7. Enter the maximum number of files to reside on server. | 500,000

Step 2: Calculate your memory requirements.

1 Enter the base memory requirement for the core OS | 5,120
(enter 2048 for Netware 3.1x or 5120 for Netware 4.x)

2 Calculate the memory requirement for the media manager (multiply V1*.1) | 10,547

3 If file compression is enabled, enter 250, otherwise enter 0. | 250

4 Calculate the memory requirement for directory tables. | 5,500
(multiply V7* .006, or if suballocation is enabled multiply (V7* .011)

5 Calculate the memory required to cache the FAT (multiply V5* .008) | 13,500

6 Calculate the memory requirement for file cache using the following table. This | 107,500
calculation uses a 0.4Mb file cache per client memory requirement. The decrease
as the user community increases is based on assumptions regarding increased
repetitive use of shared data (temporal and spacial locality) within cache.

Less than 100 clients	V6* 400
Between 100 and 250 clients	40,000 + ((V6-100)*200)
Between 251 and 500 clients	70,000 + ((V6-250)*100)
Between 501 and 1000 clients	95,000 + ((V6-500)*50)

7 Enter the total memory (Kb) required for support NLMs. 2000Kb is recommended | 2,000
for: Btrieve (700), Clib (500), Install (600), and Pserver (200).

8 Enter the total memory (Kb) required for other services. Other services include | 20,000

Netware for Macintosh, Netware for SAA, Oracleware, etc.

Step 3: Calculate your total memory requirement.

9   Total lines 1-8 for your total memory requirement (in Kb).   **164,418**

10 Divide line 9 by 1024 for a result in Mb, rounding to the next higher number.   **161**

Mb

Mirroring

Mb

Kb
Sub-allocation

Blocks/Mb

Blocks

Clients

Files

Kb

Kb

Kb

Kb

Kb

Kb

Kb

Kb

Kb

Mb