Backup MBR mediante o programa MBRWork

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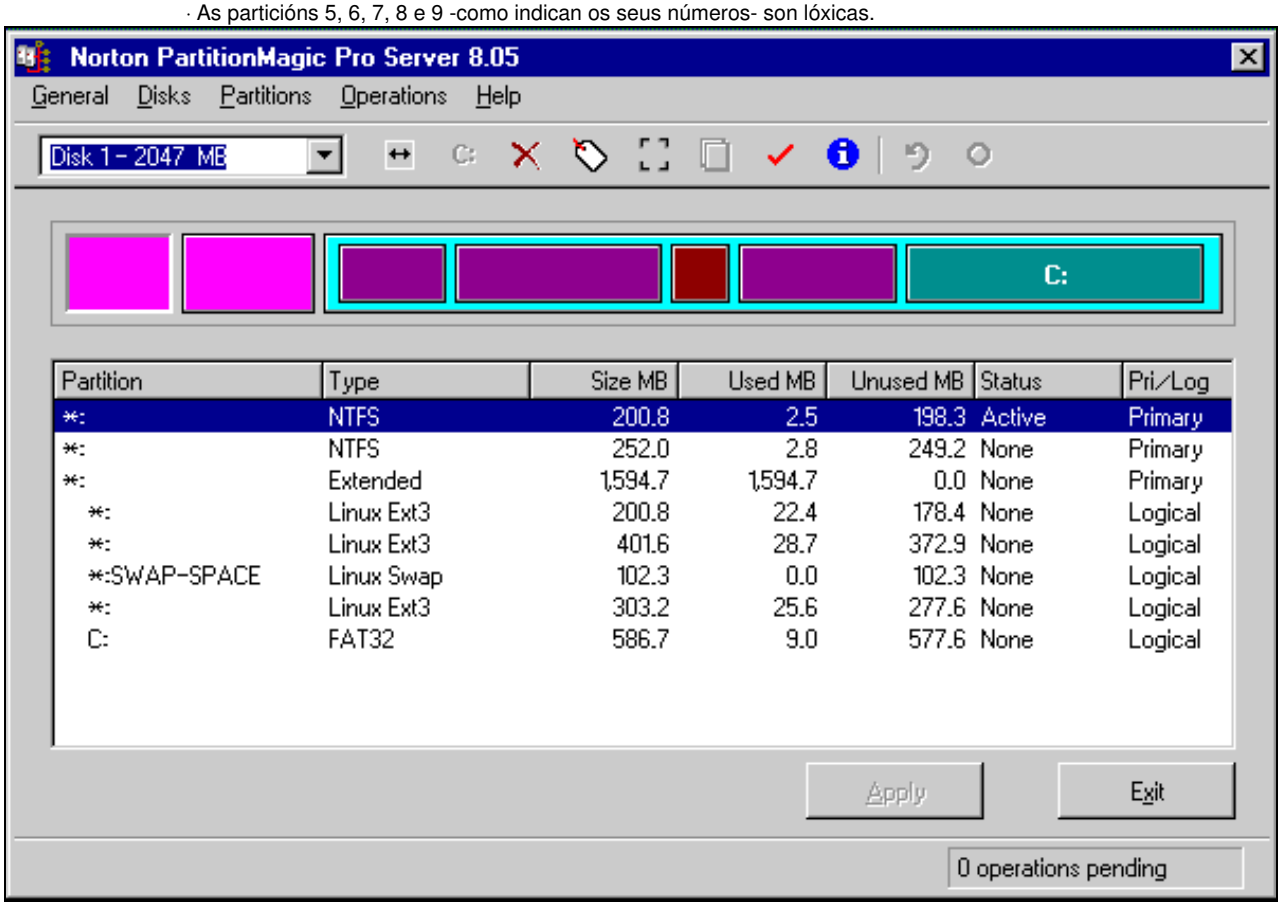
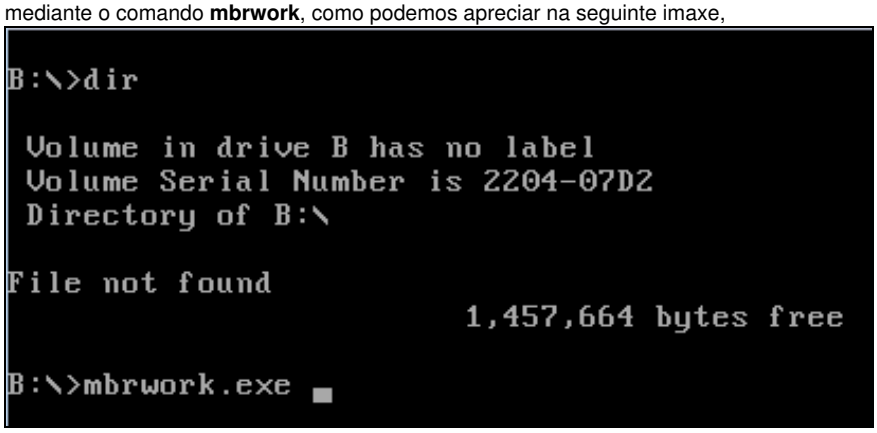
Neste apartado empregaremos o programa **MBRWork**
O procedemento é o seguinte:

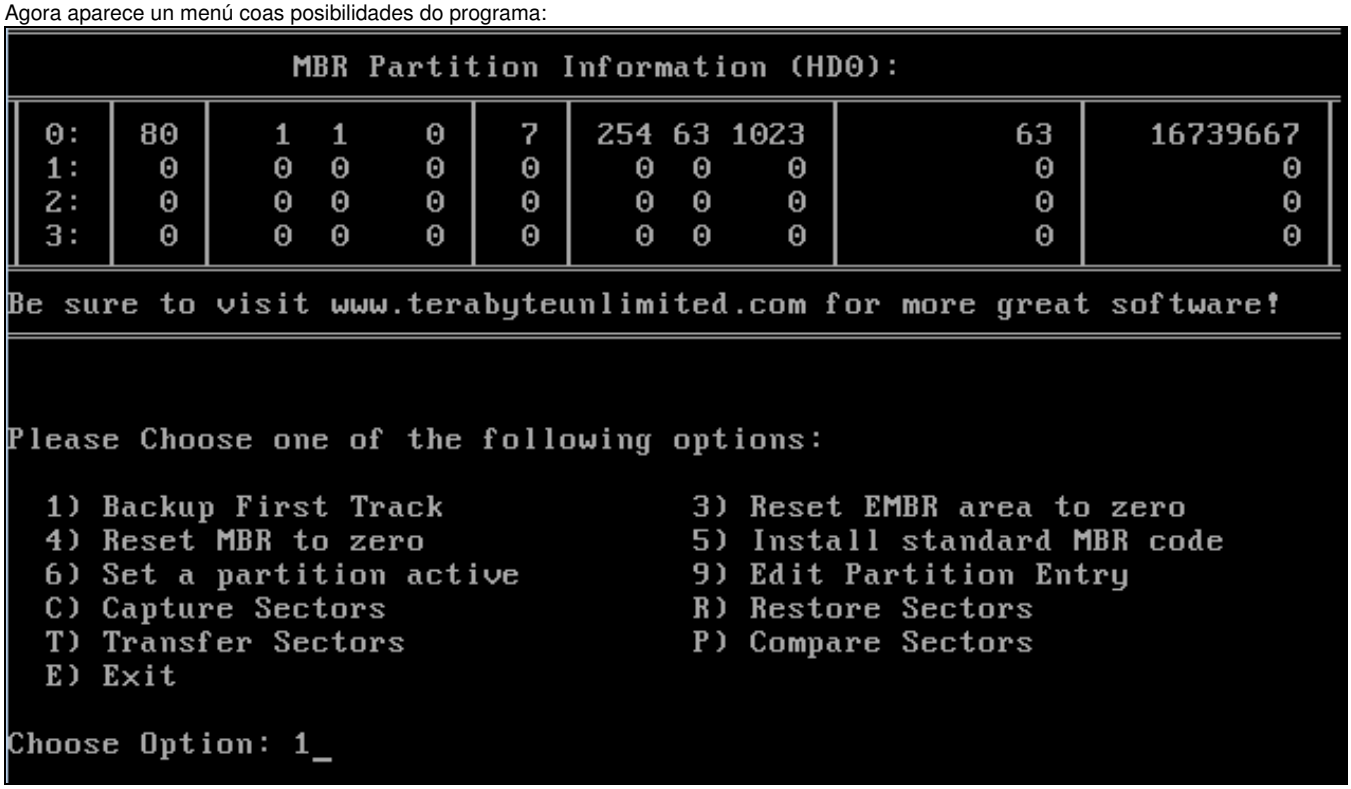
1. Imos partir dun disco duro particionado do seguinte xeito:
   - 8 particións.
   - As particións 1, 2 e 3 -como indican os seus números- a priori son primarias xa que pode existir 1 estendida.
   - A partición 3 será estendida.
   - As particións 5, 6, 7, 8 e 9 -como indican os seus números- son lóxicas.



2. Imos supor que estamos nunha consola de MS-DOS identificada como **b:** e que podemos dende a mesma lanzar o programa **MBRWork** mediante o comando **mbrwork**, como podemos apreciar na seguinte imaxe,



3. Agora aparece un menú coas posibilidades do programa:



4. Escollemos a opción 1 para gardar unha copia do MBR.

```
Please Choose one of the following options:

  1) Backup First Track              2) Restore First Track
  3) Reset EMBR area to zero         4) Reset MBR to zero
  5) Install standard MBR code       6) Set a partition active
  9) Edit Partition Entry            C) Capture Sectors
  R) Restore Sectors                 T) Transfer Sectors
  P) Compare Sectors                 E) Exit

Choose Option: E_
```

5. Prememos a tecla **E** e saímos do programa voltando á ruta **b:**. Agora vendo o contido de **b:** podemos comprobar que temos un ficheiro de nome **back0.bin**.

```
B:\>dir

 Volume in drive B has no label
 Volume Serial Number is 2204-07D2
 Directory of B:\

back0    bin        32,256  10-20-09   4:05p
         1 file(s)          32,256 bytes
         0 dir(s)       1,425,408 bytes free

B:\>
```

6. Agora imos comprobar que podemos restaurar a copia do MBR creada no caso de perda do mesmo ou de perda de información na táboa de particións . Para isto procedemos a borrar a táboa de particións mediante o Ranish Partition Manager e a gardar o novo MBR sen ningunha partición existente no disco duro previamente particionado,

```
 Ranish Partition Manager      Version 2.44 (beta) by Muthu  June 09, 2002

 Hard Disk  1   2,047 Mbytes [   520 cylinders  x 128 heads  x 63 sectors ]
 Using LBA
                    File                  Starting          Ending       Partition
 #  Type Row      System Type          Cyl Head Sect    Cyl Head Sect  Size [KB]

 0   MBR    Master Boot Record          0    0    1      0    0    1          0
 1   Pri    Unused                      0    0    2      0    0   63         31
 2  *Pri 1  Windows NT NTFS             0    1    1     50  127   63    205,600
 3   Pri 2  Windows NT NTFS            51    0    1    114  127   63    258,048
 4   Pri 3  Extended                  115    0    1    519  127   63  1,632,960
 5   |- Log  Linux ext2fs              115    1    1    165  127   63    205,600
 6   |- Ext  Extended                  166    0    1    267  127   63    411,264
 7   |- Log  Linux ext2fs              166    1    1    267  127   63    411,232

       ENTER - Edit options    S - Save MBR to file   L - Load MBR from file
- MBR
# Partition    Size | MBR Executable code: Unknown IPL
1*NTFS          200 | Boot interface type: Compact
2 NTFS          252 | Check for viruses:   Yes
3 Extended    1,594 | Boot prompt timeout: 6
4 Unused          0 | Default boot choice: Not set
   F1 Help ========== F2 Save = F3 Undo = F4 Mode = F5 Disk ========== ESC Quit
```

```
Ranish Partition Manager       Version 2.44 (beta) by Muthu  June 09, 2002

Hard Disk  1   2,047 Mbytes [   520 cylinders  x 128 heads  x 63 sectors ]
Using LBA
                    File                  Starting          Ending       Partition
#  Type  Row    System Type          Cyl Head Sect    Cyl Head Sect  Size [KB]

0  MBR    Master Boot Record         0    0    1      0    0    1           0
1  Pri    Unused                     0    0    2    520   15   63   2,097,143
2         Unused                     0    0    0      0    0    0           0
3         Unused                     0    0    0      0    0    0           0
4         Unused                     0    0    0      0    0    0           0
5         Unused                     0    0    0      0    0    0           0
6         Unused                     0    0    0      0    0    0           0
7         Unused                     0    0    0      0    0    0           0

      Partition table was saved to hard disk.
 MBR
# Partition   Size
1 Unused         0
2 Unused         0
3 Unused         0
4 Unused         0
                    Press ENTER to start Partitioning Wizard,
                    which will guide you through the creation
                    of new partitions.
   F1 Help   F2 Save = F3 Undo = F4 Mode = F5 Disk   ESC Quit
```

7. Procedemos a restaurar o MBR orixinal, co cal lanzamos de novo o programa **MBRWork** e deberiamos proceder de igual xeito ata que chegamos ao menú -ver apartados 2 e 3 - onde agora a opción a escoller sería a **2** e non a **1**, como podemos ver a continuación na seguinte imaxe.

```
                    MBR Partition Information (HD0):

 0:   0    0  0    0    0    0  0    0          0          0
 1:   0    0  0    0    0    0  0    0          0          0
 2:   0    0  0    0    0    0  0    0          0          0
 3:   0    0  0    0    0    0  0    0          0          0

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Please Choose one of the following options:

  1) Backup First Track              2) Restore First Track
  3) Reset EMBR area to zero         4) Reset MBR to zero
  5) Install standard MBR code       6) Set a partition active
  9) Edit Partition Entry            A) Recover MS Partitions
  C) Capture Sectors                 R) Restore Sectors
  T) Transfer Sectors                P) Compare Sectors
  E) Exit

Choose Option: 2_
```
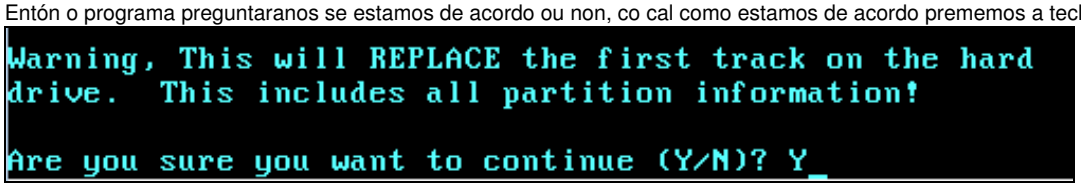
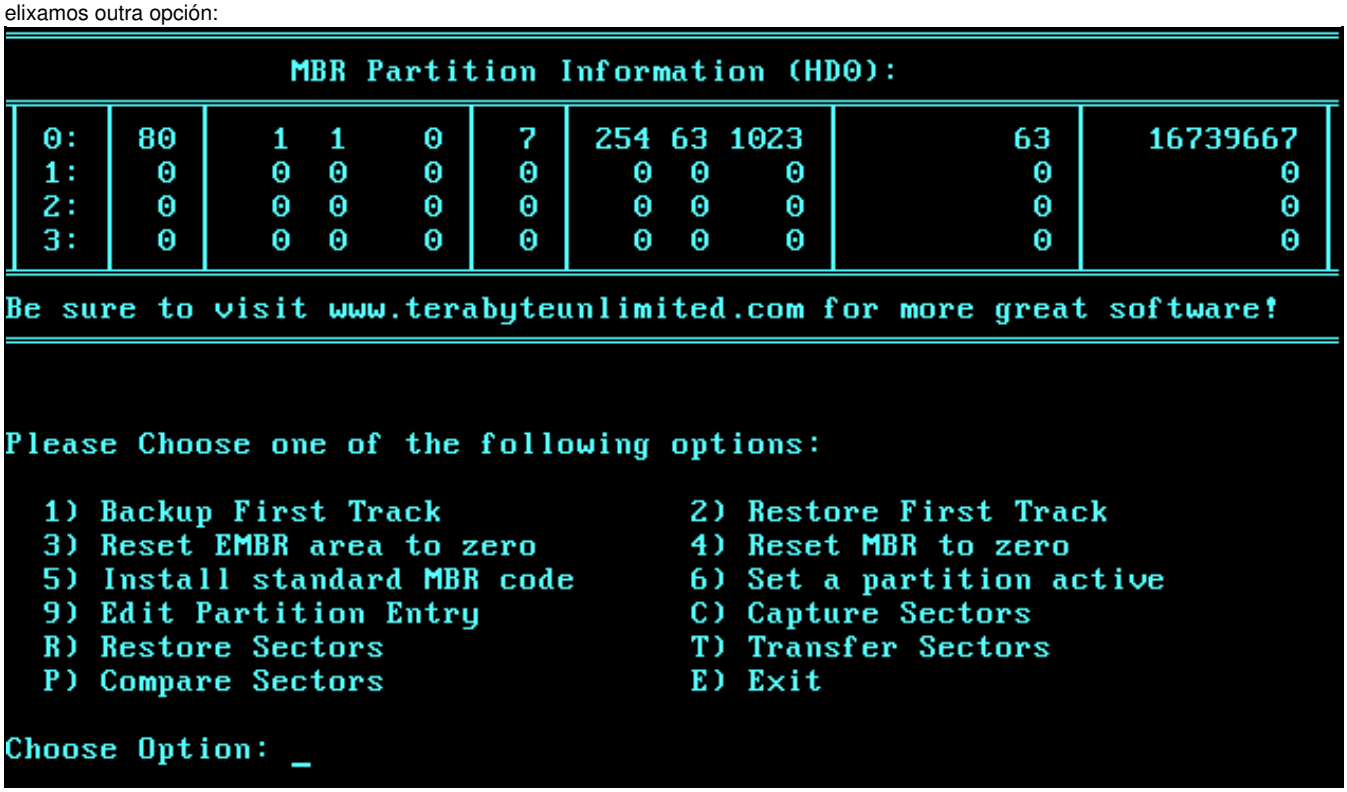
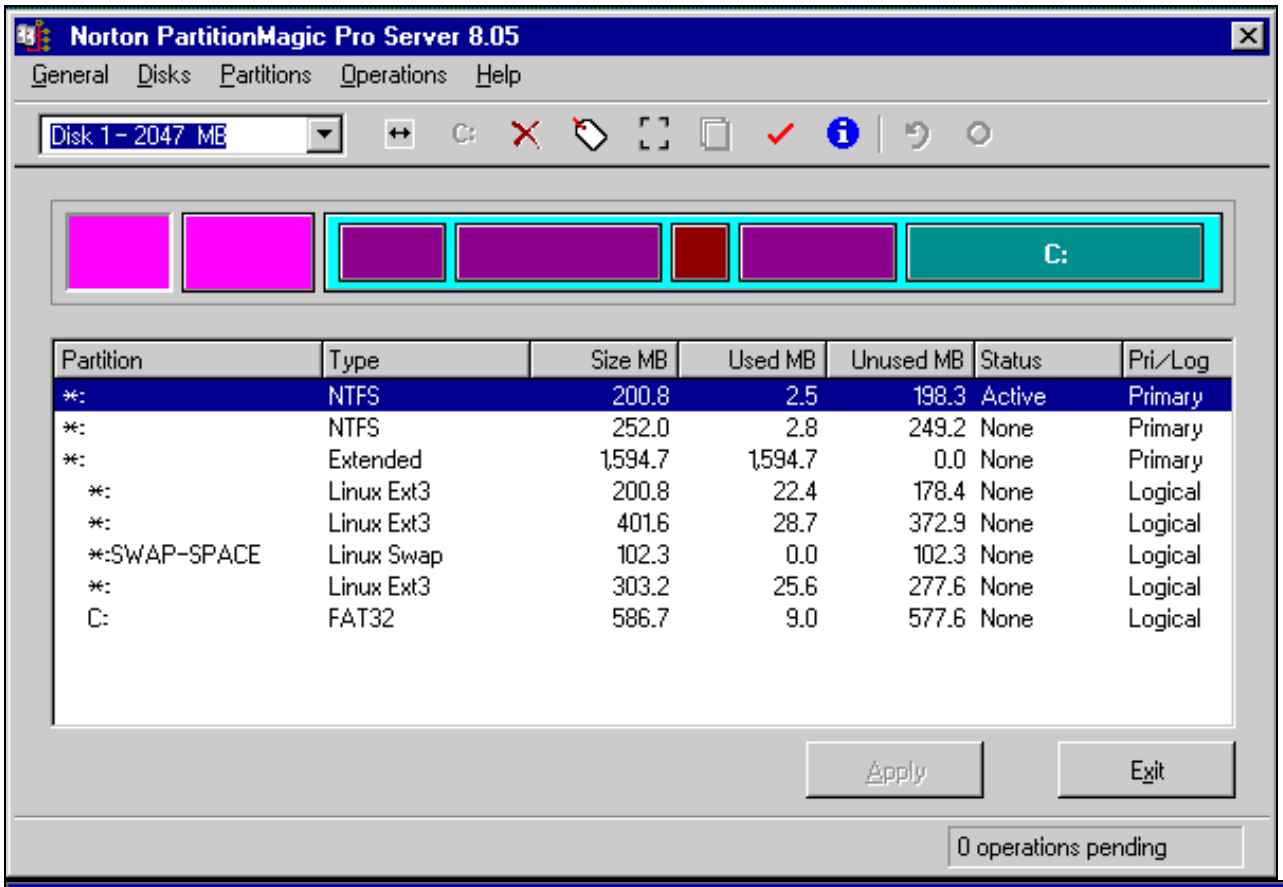

8. Entón o programa preguntaranos se estamos de acordo ou non, co cal como estamos de acordo prememos a tecla **Y**:

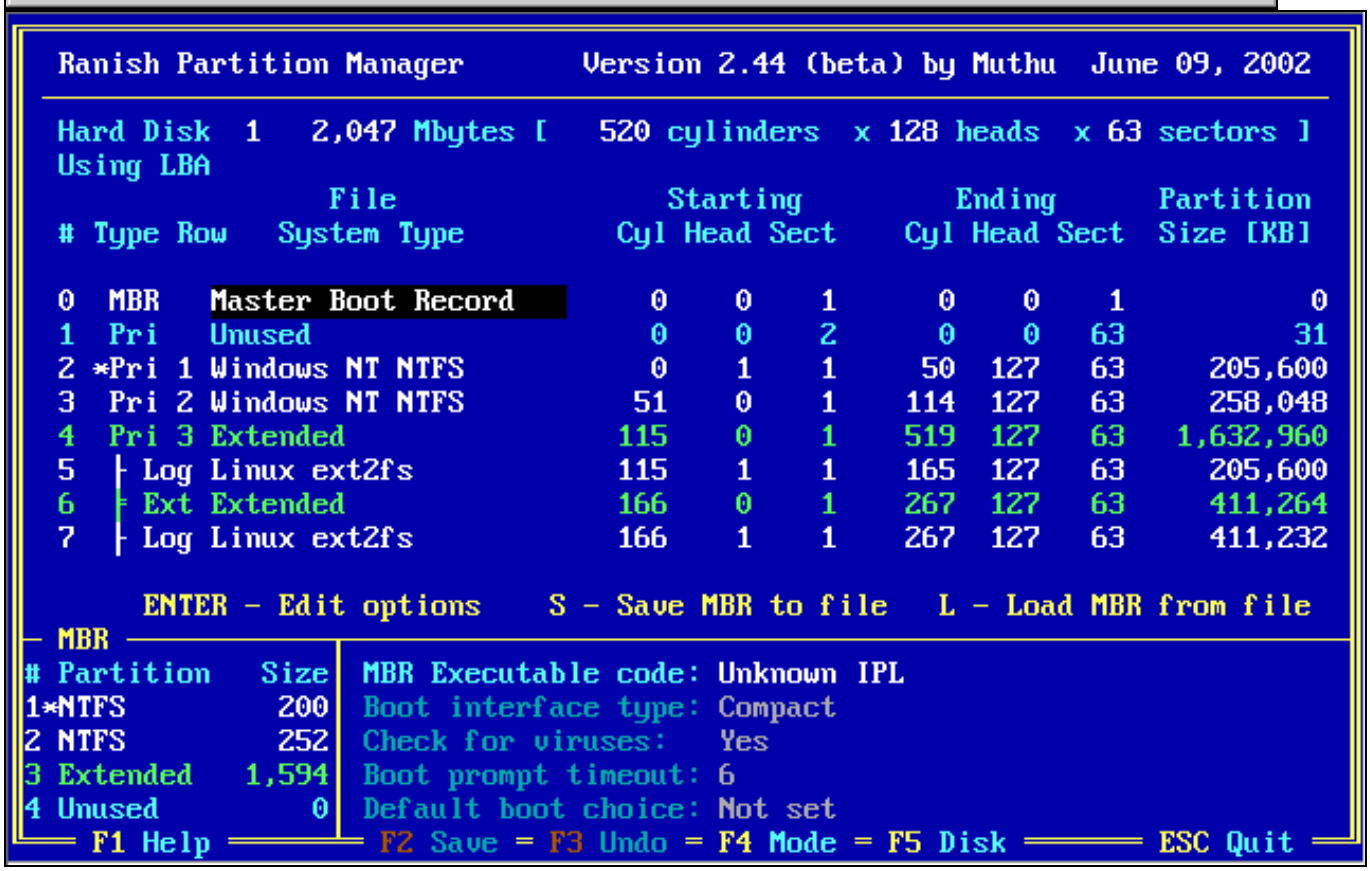


Agora débenos aparecer unha pantalla similar á seguinte indicando que a restauración do MBR tivo lugar e o programa queda a espera que elixamos outra opción:



9. Prememos a tecla **E** e saímos do programa voltando á ruta **b:**.
   Xa temos restaurada a copia do MBR.
10. Comprobamos que temos ben o MBR con calquera programa de particionamento,


Norton PartitionMagic Pro Server 8.05
General Disks Partitions Operations Help
Disk 1 - 2047 MB
C:
Partition Type Size MB Used MB Unused MB Status Pri/Log
*: NTFS 200.8 2.5 198.3 Active Primary
*: NTFS 252.0 2.8 249.2 None Primary
*: Extended 1,594.7 1,594.7 0.0 None Primary
*: Linux Ext3 200.8 22.4 178.4 None Logical
*: Linux Ext3 401.6 28.7 372.9 None Logical
*:SWAP-SPACE Linux Swap 102.3 0.0 102.3 None Logical
*: Linux Ext3 303.2 25.6 277.6 None Logical
C: FAT32 586.7 9.0 577.6 None Logical
Apply
Exit
0 operations pending


Ranish Partition Manager Version 2.44 (beta) by Muthu June 09, 2002
Hard Disk 1 2,047 Mbytes [520 cylinders x 128 heads x 63 sectors]
Using LBA
Type Row File System Type Starting Cyl Head Sect Ending Cyl Head Sect Partition Size [KB]
0 MBR Master Boot Record 0 0 1 0 0 1 0
1 Pri Unused 0 0 2 0 0 63 31
2 *Pri 1 Windows NT NTFS 0 1 1 50 127 63 205,600
3 Pri 2 Windows NT NTFS 51 0 1 114 127 63 258,048
4 Pri 3 Extended 115 0 1 519 127 63 1,632,960
5 ├ Log Linux ext2fs 115 1 1 165 127 63 205,600
6 ├ Ext Extended 166 0 1 267 127 63 411,264
7 ├ Log Linux ext2fs 166 1 1 267 127 63 411,232
ENTER - Edit options S - Save MBR to file L - Load MBR from file
MBR
Partition Size
1*NTFS 200
2 NTFS 252
3 Extended 1,594
4 Unused 0
MBR Executable code: Unknown IPL
Boot interface type: Compact
Check for viruses: Yes
Boot prompt timeout: 6
Default boot choice: Not set
F1 Help F2 Save = F3 Undo = F4 Mode = F5 Disk ESC Quit

Ademais xa poderiamos volver a traballar de igual xeito coa computadora como o faciamos previamente ao borrado do MBR.

--ricardofc 20 out 2009