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CLAIMS

[Claim(s)]
[Claim 1]In a personal computer system containing two or more personal computers and two or more magnetic disk drives,
A personal computer system, wherein it has magnetic-disk share equipment characterized by comprising the following and two or more aforementioned personal computers access the aforementioned virtual magnetic disk drive according to the available aforementioned right, respectively.
A control means of a magnetic disk drive which considers that two or more aforementioned magnetic disk drives are one virtual magnetic disk drive which makes all the storage areas of a magnetic disk drive of this plurality the storage area, and controls them.
A security management means to manage an available right of two or more aforementioned personal computers of each in a storage area of the virtual magnetic disk drive concerned.

[Translation done.]

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DETAILED DESCRIPTION

[Detailed Description of the Invention]
[0001]
[Industrial Application]The present invention relates to the personal computer system containing two or more personal computers and two or more magnetic disk drives.
[0002]
[Description of the Prior Art]Conventionally, only one physical magnetic disk drive can respond to one logic magnetic disk drive, but the magnetic-disk management of upper level software (operating system) of the magnetic disk controler in a personal computer system is also the same.
[0003]A magnetic disk drive was not able to be shared with two or more personal computers.
[0004]
[Problem to be solved by the invention]Since the conventional magnetic disk controler mentioned above serves as specification to which only one physical magnetic disk drive can be equivalent to one logic magnetic disk drive, The fault that there is a fault that the data exceeding the capacity of one magnetic disk drive cannot be carried, and a magnetic disk drive cannot be shared with two or more personal computers is ****.
[0005]The object of this invention by accessing all the storage areas of two or more magnetic disk drives from each personal computer as a storage area of one magnetic disk drive, While making it possible to treat the data of the size exceeding the capacity of one magnetic disk drive, It is providing the microcomputer system which has a magnetic disk controler which can share two or more magnetic disk drives with two or more microcomputers, managing the access right of each personal computer.
[0006]
[Means for solving problem]The personal computer system of the present invention, The control means of the magnetic disk drive which considers that two or more magnetic disk drives are one virtual magnetic disk drive which makes all the storage areas of the magnetic disk drive of these plurality the storage area, and controls them, It has magnetic-disk share equipment provided with a security management means to manage the available right of two or more personal computers of each, which can be set to the storage area of the virtual magnetic disk drive, Two or more personal computers access a virtual magnetic disk drive according to an available right, respectively.
[0007]
[Function]That thing [accessing like] which is a storage area of one magnetic disk drive for each personal computer about all the storage areas of two or more magnetic disk drives is made possible, The available right of two or more personal computers of each to receive the storage area of the one virtual magnetic disk drive is specified and managed for each microcomputer of every.
[0008]
[Working example]Next, with reference to Drawings, it describes about the working example of the present invention.

[0009]Fig.1 is a block diagram showing the composition of one working example of the personal computer system containing the magnetic-disk shared device of the present invention.
[0010]In Fig.1, the personal computer bodies 1 and 2 and ... are connected to the magnetic-disk shared device 3 via the interface boards 4 and 5 and ... The magnetic disk drives 8-12 are connected to the magnetic-disk shared device 3. The magnetic-disk shared device 3 comprises the magnetic disk control 6 and the partition control table 7.
[0011]The access request from ... to the personal computers 1 and 2 and the magnetic disk drives 8-12, It is notified to the magnetic disk control 6 through the interface boards 4 and 5 for magnetic disks, and ..., and converts to the access request to the virtual magnetic disk drive over the magnetic disk drives 8-12 in the magnetic disk control 6. The above processing enables the magnetic disk drives 8-12 to treat all the storage areas of the magnetic disk drives 8-12 as one virtualized magnetic disk drive which is made into its record section from a personal computer body.

[0012]A security management classifies the storage area of an above-mentioned virtual magnetic disk drive, It is for setting the available right for each personal computer of every to each classified portion (it is called a partition), and preventing unjust access, and is carried out by creating the partition control table 7. There are R (reading), W (writing), C (creation), D (elimination), and X (execution) in the right to access to a partition.
[0013]Fig.2 is an example of a partition control table. Reading, write creation, and execution are possible for the personal computer 1 to the partition 1, reading and writing are possible for it to the partition 2, and reading is possible for it to the partition 3. Reading, write creation, and execution are possible for the personal computer 2 to the partition 1, and reading is possible for it to the partition 3. Reading, write creation, and execution are possible for the personal computer 3 to the partition 1, and reading is possible for it to the partition 2. It becomes possible to prevent unjust access which is not allowed the use from a personal computer by the above-mentioned security management means.
[0014]
[Effect of the Invention]As described above, the personal computer system which has a magnetic-disk shared device of the present invention, By accessing all the storage areas of two or more magnetic disk drives from each personal computer as a storage area of one magnetic disk drive, and managing the access right of each personal computer, While making it possible to treat the data of the size exceeding the storage capacity of one magnetic disk drive, It makes it possible to share two or more magnetic disk drives with two or more microcomputers, and there is an effect which can be managed collectively without storing data with each personal computer.

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TECHNICAL FIELD

[Industrial Application]The present invention relates to the personal computer system containing two or more personal computers and two or more magnetic disk drives.

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PRIOR ART

[Description of the Prior Art]Conventionally, only one physical magnetic disk drive can respond to one logic magnetic disk drive, but the magnetic-disk management of upper level software (operating system) of the magnetic disk controler in a personal computer system is also the same.
[0003]A magnetic disk drive was not able to be shared with two or more personal computers.

[Translation done.]

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