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Abstract
Information sciences and life sciences are two of the most rapid developing topics in the twenty-first century. This thesis issues subjects to support both of the two. We propose techniques of storage device for medical information, and hopefully derive the medical systems into generic information systems, and then promote the efficiency of medical devices for human health considerations.
We aim the proposed medical device to be constructed under the existing medical system PACS (Picture Archiving and Communication System), and play the role of one of storage in SAN (Storage Area Network). A modified disk layout arrangement similar to FAT is proposed, which we call FAT+ in this thesis. Because the applications of embedded system are likely to be specific and single purpose, the file sizes it stores may not vary severely. FAT+ can decide the size of the storage unit according where the applications are applied. There are two different units, i.e. big units and small units, for big files and small files respectively. The driver for FAT+ is implemented to dispatch data from big files or small files to the right storage units. We testify that the storage fragments are improved; the efficiency is enhanced, and still compatible to FAT format which can be read by most computers.
Keywords：Disk Layout, FAT, Embedded System, PACS.
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