Analysis of Application of Computer Technology on Electronic Information Control and Processing

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Abstract. Electronic information technology is the most promising technologies, including microelectronics, computer technology, network technology, communication technology, and display technology. Based on the current situation and development of the basic characteristics of electronic information technology for analysis, we concluded that the electronic information technology market is about to take on a new trend.

Introduction

In all key technologies, integrated circuit manufacturing technology and electronic information products, hardware Core. IC wide range of applications, from the computer's CPU to a variety of IC cards, require the use of an integrated circuit. Microelectronic technology has come a large-scale (LSI), very large scale (VLSI), especially large scale (ULSI) integrated era, enter the maximum size (GSI) integrated era in 1995. As a representative of high-tech integrated circuit technology on the world's economic development plays an important role. Development Trend of IC products is increasing chip area, more integrated, feature size getting smaller and smaller, on-chip system has improved steadily. Since the 20th century the mid-1990s, the amount of silicon gradually reduce the use of 125mm or less, the amount of growth slow 150mm wafers, 200mm wafer usage increased year by year to become mainstream, 300mm wafers in contrast, 400mm or more silicon design ideas have been form. The next 10 years, silicon-based integrated circuits will continue to mainstream CMOS circuit technology, the main trend is miniaturization process, the large diameter of the wafer.

Development of Computer Technology to Multimedia, Intelligent Direction

Computer technologies include computing (network computing, mobile computing, parallel computing) technology, PC, servers and peripheral equipment design and development of technology, multimedia technology and artificial intelligence technology. Parallel processing technology will continue to evolve rapidly, on average every two years to improve computer performance an order of magnitude. CPU next few years will be 32 to 64 transition; product mix from the computer as the core shift to the Internet as the core network equipment; storage devices in the system, the proportion of growing, storage technology development to mass storage direction; multimedia technology causing the computer, communications, electronics integration, DVD drive is replacing CD-ROM, language and handwriting recognition technology and digital image technology has to practical interactive, multimedia technology to give attention to the configuration of the green belt in the microcomputer, I believe that there must be sufficient green and with a width of two or more trees in order to achieve pleasant results; »significant nodes: - the most common contacts and stop the place, the city is an important part of the realization of the basic functions, such as: squares, parks, water, flag objects, and other aspects important corner. Universal use; the computer will be more personalized and personified. The rapid development of laptop computers, hand-held computers also come with a whole new look to launch.

Network technologies include network communication technology, network security technology and network technology services. Currently, the network technology development direction of the forward multi-service, high-performance, high-capacity. IP Business explosive growth, Broadband

Integrated Services Digital Network (B-ISDN), ultra high-speed Internet will be the focus of future development of network technology. The second generation multivariate Internet network convergence of data, voice and video will soon replace the first generation of Internet a single data network, using dense wavelength division multiplexing (DWDM) optical communication network technology will greatly reduce network transmission costs to the user provide unlimited bandwidth, real-time multimedia communication possible. The main task of the network is to achieve effective multimedia communication transmission media of all components of data on the same network. Unlike traditional data communication, multimedia communication comprising multi-component data. During the huge flow of multimedia data communications and real-time requirements of continuous media, so quick and efficient data forwarding mechanism to become MCS (Multimedia Communication System) is an indispensable part.

Present Problems in the Application of Computer Technology

Although China's electronic information processing and control systems have been used for computer technology, but in the actual operation of the process there are still some problems that seriously restrict the quality of the electronic information processing. On the existing problems can be divided into the following points:

There may not distinguish between opinions and practical advice network phenomenon. This question refers to computer technology can not make a correct evaluation of the information, or does not comply with the evaluation made by the public opinion. For example, in answer to some of the major decisions in front of a computer may not be given the public want answers. The result is a phenomenon caused by the computer can not view the actual difference between the public perception and present on the network will be open to the future, this phenomenon is more serious.

Existing information analysis software to keep up with rapid social change groups. Information is a public resource, with the changes in society changing the level of information is constantly increasing, the future will become more complex, the existing information analysis software to keep up with the progressive development of society that can not be played to good analytical processing effects. For example, regulation stage computer software can also identify what information as to which companies are valid, but the information will increase in the course of development of contact Los class there is a link between the information, in which case the computer will not quickly identify type of information will give companies a huge loss, which is one of the most serious problems in the application of computer technology stage presence.

Electronic information processing and professional quality control staff should be improved. Use of computer technology in the electronic information processing needs are relatively highly specialized professional staff understand computer technology. But the staff at this stage there are a number of professional quality is not up to the phenomenon which can lead to inefficient information processing, the quality is not high phenomenon which is the basic problem of electronic information processing and controlling the application of computing technology exists Gordon relevant departments must pay attention to this a problem. The above points are at this stage in the use of electronic information processing problems in the computer only recognize these practical problems in solving these problems it may be good to use computer technology in information processing.

Application of Computer Technology in the Electronic Control and Information Processing

The so-called electronic information technology is developed in the computer technology, communications technology and high-density storage technology based on storage, dissemination and application of technical information for, and it is the future direction of development of information industry. Where computer technology is the core of its development. The development of electronic information technology, a long time to break the traditional paper storage carrier, the dissemination of information. The realization of electronic information technology support is the computer software technology. So the design of computer software system is a key part of

electronic information technology.

Electronic system. It is connected to each other by a plurality of basic circuit of interacting entire circuit having a specific function. Digital and mixed analog form two kinds or both. Smaller, single function is the unit circuit, but by the number of circuit elements are electronic systems. A complete electronic systems generally have input, output and information processing three parts, used to achieve control and information processing. These electronic systems to control the input, output and information at a computer software system. In the modern information technology is so advanced society, if there is no computer software to control, everything will be out of the question. Aerospace Electronics Technology. Now the rapid development of space science, aerospace-oriented electronic information in the field of microwave remote sensing and spatial information transmission and processing such as electronic technology is the use of large or giant computer-implemented. Including aerospace electronic systems such as design, manufacturing and management work is designed by means of computer or management software implementation. Electromagnetic Field and Microwave Technology. Antennas, microwave, radio wave propagation and electromagnetic compatibility design, simulation and computer assisted measurements are done under the soft machine, computer design, antenna, electromagnetic field and microwave technology research and application system if this does not become even more impossible Talking. Information processing technology. Information processing theory and an information processing hardware and software design, electronic information system, information acquisition and processing, as well as research and design, manufacturing management information systems are implemented via computer software or computer assisted software completed.

In summary, in the field of electrical engineering and computer technology, electronic technology is integrated into the development together, two alternatives can not be separated. Control and processing electronic information through a computer program or computer programming software, implementation, and development of computer technology in electronic technology based on. The field of information technology, electronic information technology is described in the information field key support technology, computer technology is the core technology in the field of information.

Improve the Application of Computer Technology in the Electronic Information Processing

The use of cloud computing systems for information processing and control IV. Cloud computing is a relatively new type of computer technology in fact is simply a data processing center cloud computing system using electronic information processing and control must be able to achieve good results, and can solve computer software obsolete distinction between the types of information problems to be solved in many other unexpected problems. For example, information may be implemented at this stage transmission open River to Information and network hardware to achieve the separation of management within the river network to enhance the role of information management. "Cloud computing" I hope in the future can realize the network or the Internet cloud computing cloud computing, which is the computer technology and Internet technology combined. Such use of cloud computing technology will be able to do a good job handling and control of electronic information.

Training staff professional qualities knock encourage innovation. Not only to focus on retraining staff should also actively encourage research and innovation consciousness. Electronic information processing and control unit can conduct professional courses to train staff of new computer technology. At the same time, but also to encourage research and innovation, actively encourage staff to innovation and research and development of new computer information management software and so on. This will not only do a good job staff training can bring new vitality to the whole electronic information management both its beauty. OF really I do think from these two measures, in order to better computer technology applications in the electronic information processing and control work.

Conclusion

Electronic information technology as an important symbol of modern science and technology revolution in the ascendant, has penetrated in various fields of social production and life. As information technology has been the core of computer technology towards the intelligent, multi-polarization, the media and network development, in such a favorable situation, the use of computer technology for control and processing electronic information technology has become the development of China's information technology good opportunity, but also an important means of improving information science, can further improve our international competitiveness.

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