News

The New 3 Video Mobile from NEC is Here — A Slim Design in Three Different Colors and Double Cameras Distinguish the NEC e228 —

NEC presents the latest new video mobile phone — the NEC e228. Smaller and lighter than its predecessor, the 313, the NEC e228's features an ultra-stylish new design in three different colors and is characterized by enhanced photography capabilities and improved battery time.

The double camera feature — one on the front and one at the back — offer fantastic functionality for taking video snaps and photography.

Like all 3 video-mobiles by NEC, the e228 is constantly connected to the Internet and can synchronize completely with Outlook Calendar and other PC applications, which makes it suitable for personal as well as professional use. It also enables use of a memory card should there be a need for more memory. The large screen and 65,000-color resolution provides exceptionally high quality for video viewing and Java games. The e228 is also equipped with an MP3-player for personal audio enjoyment and convenience.

"NEC is pleased to introduce new 3G video mobile phone." Said Susumu Otani, Associate Senior Vice President of NEC Corporation. "The launch of the new 228, NEC's 7th terminal for 3, is the latest step in bringing opportunities and benefits of 3G to wider-range of users in the world. As a long-standing strategic partner, NEC will fully support and contribute to Hutchison's 3G operations with our portfolio of handsets and infrastructure systems."

NEC e228 also has the following functions and technical data:

- 40 tones polyphonic ring signals
- 19MB dynamic memory with support up to 128MB Sony Memory stick Duo
- Downloading capacity of 384kbps
- Video calls, MMS
- Java games
- Support for video streaming
- Media player (video and sound)
- Speaker phone
- Battery time: 132 h Standby, 136 min voice, 106 min video.

NEC e228 specifications:

- Weight: 125g
- Size: $129 \times 53 \times 21.5$mm
- Volume: 120cc
- Colors: Silver, white, and blue

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Photo 1 "e228" mobile phone (Colors from left: white, blue and silver).

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NEC Develops GRID Middleware for Commercial IT Systems — Enables Integrated Self-Management of IT/Network Resources —

On July 23, 2004, NEC Corporation announced that it has succeeded in the development of GRID middleware, which enables autonomous resource allocation of services in response to dynamic changes in service workloads. The middleware mainly focuses on commercial enterprise IT systems (e.g. data centers) consisting of several resources, such as servers, networks and services.

Achieving efficient utilization of all IT resources, and a reduction in system operation costs, the GRID Middleware was enabled by the development of the following new technologies:

1) Policy-Based Unified Resource Management Technology

Policy refers to the collection of rules describing how to control resources according to monitored results. The middleware achieves coordination of policies developed for IT/Network resources and services in order to automatically decide optimal resource utilization of the entire system intermittently.

2) IT/Network Resource Virtualization Technology

This capability allows system administrators to describe high-level policies for system reconfiguration, such as addition or removal of servers to/from the system, instead of sequence, low-level specific operations for individual IT/Network hardware.

"The development of this innovative GRID Middleware technology is another important step for NEC toward the realization of GRID computing" said Hiroshi Katayama, General Manager of NEC Internet Systems Research Laboratories. "NEC hopes GRID computing will contribute to a variety of fields in the future, such as application simulation in the medical field through acceleration of calculation speeds, and reduction of enterprise business costs through optimal allocation of resources."

NEC plans to incorporate the newly developed GRID middleware into NEC's VALUMO product series combined with the results of the Business Grid Computing Project that NEC is participating in, which is led by METI (Ministry of Economy, Trade and Industry).

The result of this research was announced at the 2004 IEEE International Conference on Web Services (ICWS 2004), which was held from July 6-9, 2004, in San Diego, U.S.A.

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NEC Contributes to Realization of World's First Real-Time Earth Magnetosphere Simulator

NEC has contributed to the realization of real-time earth magnetosphere simulator developed by the National Institute of Information and Communications Technology (NICT, President: Dr. Makoto Nagao) and Kyushu University (President: Dr. Chisato Kajiyama).

This is the world's first real-time earth magnetosphere simulator that incorporates real-time solar wind data observed by the ACE satellite as boundary conditions.

The real-time earth magnetosphere simulator analyzes the mechanism and influence of the geomagnetic disturbances in the interplanetary space-magnetosphere-ionosphere, which can be monitored continuously in real-time 3D magneto-hydrodynamic (MHD) simulation.

With this simulator, geomagnetic disturbances caused by solar activities can be predicted precisely and quantitatively. This is important as the more closely the utilization of artificial satellites and wireless communications are tied to our economical activities; the more seriously geomagnetic disturbances can affect those activities.

NEC delivered the SX-6 Series supercomputer, and has contributed to the enhancement of the performance of the MHD simulation code so that it can conduct simulation in sync with the actual physical phenomena. Furthermore, the analysis of phenomena has been realized in real-time by using NEC's application software RVSLIB that visualizes computational results concurrently with the on-going simulation on the supercomputer.

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