FLORA LIMITED, THE CROWD PULLER IN THE COMPUTER SAMITY EXHIBITION

Flora Limited once again proved their class as a dynamic computer company of the country in the computer samity exhibition held recently in Sonargaon Hotel. They displayed top class products like Compaq, HP and Epson. Flora booth was clearly the most crowded with people taking a close look at all the quality products on display. People showed special interest on the latest Compaq DESKPRO/i series computers. DESKPRO/i is the only computer which has business audio. It accepts voice commands, which means you can actually talk to the computer. They also displayed Compaq PROSIGNIA- the best selling PC Server in the world and Compaq CDS- the hottest multimedia computer. Also on display was the best selling Hewlett Packard Laser Printers. The HP4 and 4M was in great demand by the visitors. For Flora limited the exhibition has been a great success.
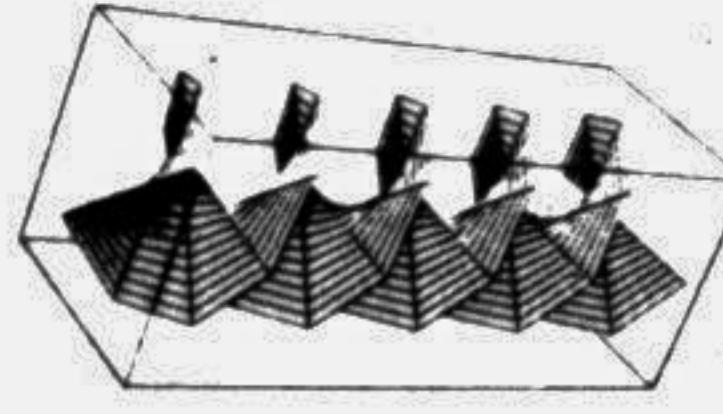
DELL SYSCOM News

We invite our valued clients and well wishers to visit our booth (# 12) at the 3rd US Trade Show (Jan, 22-24, 1994) at Hotel Sheraton.

We urge you to see the latest from Dell and take advantage of our special Trade Show prices and offerings.

Onirbaan Group

We are pleased to anounce that we have been appointed the Distributor of *Mathematica*(R) software by Wolfram Research Inc., USA.

Mathematica is "A system of Doing Mathematics by computers". This software is used worldwide in Science & Engineering.

অনির্বাণ For details, please contact: Mr. J. Kazi, Tel : 814920

NewTech Computer

We want to have the Excellent Smooth Gorgeous Reliable

At Incredible Price

Processor : 386SX/DX, 486 SX/DX, Speed. 40-66 MHz, Ram 2 MB (Expandable up to 32 MB), One 5.25" FDD (1.2 MB), One 3.5" FDD (2.88 MB), Hard disk - 40/80/120/200/300 MB, 14" SVGA Mono/Color Monitor, Built in real time Clock Calendar (2S/1P/1G), 101 Keys Enhanced key board MS - DOS 6.00.

For Upgrade your PC XT or 286 to 386 SX-40 MHz Any kind of diskette, Ribbon, Hard disk, RAM, Fax/Modem Card, VGA Card. Monitor. Screen filter. Key Board. Mother Board, Floppy disk etc

All accessories available in incredible price & quality

Available from ready stock   1 Year warranty

Pls. Contact:-
Daffodil Computers
101/A, Green Road (Infront of Ananda Cinema Hall)
Farm Gate, Dhaka.
Phone : 815986, 313203

Computer World News

Hewlett Packard has appointed a new Authorized Distributorship to Computer World recently to explore and enhance their marketing for all range of HP products and servicing in Bangladesh. Computer World has been marketing Hewlett Packard through Multilink and Ananda Computers as their dealer on Bangladesh. Computer World to inform their valued clients that all range of HP printers is available from their ready stock.

Computer World also introducing a new products from INTERMEC Corporation, USA. "INTERMEC" the world leader in "BARCODE Data Collection System." Computer World will demonstration in the "US TRADE SHOW '94" at Hotel Sheraton on 22nd to 24th Jan '94 from 10 am to 8 pm.

Multilink, a sister concern of Computer World also has been appointed Distributor for UNISYS Computer Systems. December, 1993.

This is to certify the appointment of Multilink int'l Co. Ltd as our distributor for all range of UNISYS Computer, peripherals, spare parts in Bangladesh. This appointment is effective from December 02,1993.

UNISYS Computers are designed by UNISYS Corporation, California, USA and is manufactured in USA and its Singapore subsidiary UNISYS World Trade, 10 Shenton Way 16-00 MAS building, Singapore 0207.

Very truly yours,
Mr Inder Kapoor
Country Manager
UNISYS World Trade, Singapore

PraDeshta Limited

House # 32-E, Road # 17/A, Banani.
Phone/Fax: 881800, 881500

PraDeshta is currently consulting in the Data Communication and Wide Area Networking fields to Bangladesh Oxygen Limited, Bangladesh Navy, Concept Computer Network and The Daily Star. We are designing networks that include IBM S/36, Unix computers and PC Local Area Networks and have access to domestic and international electronic mail networks.

Our electronic mail system is working fine, and we been registered as 'prdshta.UUCP',Bangladesh's first, official USENET site known to the entire world. By purchasing mailbox on our system you can correspond directly to users on the INTERNET, COMPUSERVE, JARINGNET, AT&T EasyLink, CGNET, America On-Line, USENET and any other network which has connections to the internet. Domestically you can send mail to UNDP/ITC, the SAFeworks, EpicDesigners, DataTech Computers, Ford Foundation and others.

We ask organisations, both government and non-government to take note and, invite us to design their own electronic mail service or system, so you can also tie in to growing domestic electronic mail user community.

ACER Acer Products in German Dealer Survey

• In a recent survey of German PC dealers conducted by the German biweekly Markt Interm. Acer won first and third place for monitors and PCs, respectively, in 1993.

This is the first time that Acer participated in this survey, so it was somewhat of a surprise that the respondents overwhelmingly voted Acer as the top monitor supplier.

The survey covered three hardware categories: monitors, PCs, and printers. The dealers were asked in a questionnaire to evaluate the sales activities and products of their suppliers. Acer, the largest PC manufacturer in Taiwan, emerged as the "shooting star of the year", as Markt Interm put it, in the overall survey of monitor suppliers. This means Acer beat out big players like Sony, Philips, and NEC for the honour. Acer achieved top positions for product quality, advertising and sales support, field service and hotline service.

unidev ltd

DCCI Building (5th Floor), 65-66 Motijheel C/A, Dhaka-1000, Bangladesh, TEL : 02-234861, 02-230419, FAX : 02-863435, 02-883132, TLX : 632453 UNDV BJ, 632467 TMN BJ

IBCS-PRIMAX NEWS

Mr Saqib Iqbal, Area Manager for Bangladesh, ORACLE Corporation USA will visit Bangladesh between 22-24 January, 1994. During his stay Mr Iqbal will also be present at the US Trade Show at Hotel Sheraton, Dhaka.

Distributor of **ORACLE CORPORATION**, USA

IBCS-PRIMAX Software (Bangladesh) Ltd
House No 5D, Road No 11 (Old-32),
Dhanmondi, Dhaka-1209, Bangladesh.
Tel: 816921/325932, Fax: 880-2-863027

OKI INTELLIGENT PRINTER

OKI has introduced its sales gun MICROLINE 591 with a intelligent print head technology. This 24 pin impact letter quality printer can anticipate all your paper feeding sensor paper thickness and adjusts headgap automatically to handle them. The difference between the ML 591 and conventional printers is OKI SMART paper handling.

ML 591 has an optinal colour kit coupled with a colour software package lets you work in a rainbow of colours. On draft mode it works at 450 cps and has a resolution of 360x360 dpi. This has a 20% higher reliability in MTBF rating over most printers in it claim. Its paper feeding and paper handling features are also unique.

IOE INTERNATIONAL OFFICE EQUIPMENT
PRACHI NIKET
54 DILKUSHA COMMERCIAL AREA (4TH FLOOR)
G P O BOX 3420, DHAKA, BANGLADESH
TEL 233317, 239782 FAX 880-2-863860, 863991

Technohaven News

The management of Technohaven Co gratefully acknowledges the continued support of its valued clients who made 1993 our best year yet. The management congratulates all the members of Technohaven for their unflinching devotion to duty that has further augmented the firms reputation as the technical leader of the computer marketes in Bangladesh. Let 1994 be another year of co-prosperity for Technohaven Co and its clients.

Technohaven Co - A name that breeds confidence.

Head Office: 4/2, Block - A, Lalmatia, Dhaka-1207, Bangladesh, Tel : 313304, 815902, 815907

Fax : 880-2-813082, Telex : 642930 TL BJ

TEXAS Vesa Local Bus Systems

Promotional Offer

	2 - SLOT	3 - SLOT
486 SYSTEMS ★	Tk. 74,900	Tk. 75,800
386 SYSTEMS ★	Tk. 59,900	Tk. 60,750

★ Min. prices will ISA Super I/O card
SVGA 1 MB Card & 14" Colour Monitor

VESA COMPONENTS

HDD CONTROLLER 4 MB CACHE	Tk. 14,960
SUPER I/O CONTROLLER	Tk. 7,200
VESA SVGA CARD 2 MB RAM	Tk. 7,920
VESA SVGA CARD 1 MB RAM	Tk. 6,240
VESA 32 BIT ETHERNET CARD	Tk. 7,900

TEXAS RESOURCES LIMITED
ABC House (8th Floor)
8 Kemal Ataturk Avenue
Banani C/A, Dhaka.
Tel # 882079, 884951, 886123
Fax # 886141, 883587

CIPROCO COMPUTERS

Another First For CIPROCO

CIPROCO Computers Ltd. has been appointed as International Distributor for SPSS covering Bangladesh, Pakistan and Burma. This is the first time ever that a Bangladeshi Company has been appointed as distributor to cover other countries.

SPSS has also selected CIPROCO to operate as an Authorized Training Centre where the certificates issued will be directly from SPSS.

SPSS Inc. is a US-based company founded about 28 years ago and having business operations in 90 countries worldwide.

CIPROCO recently installed a 10 KVA on-line UPS at CitiBank, Dhaka.

749, Satmasjid Road, Dhanmondi, Dhaka
Phone: 317664, 315331 Fax: 813464

DOLPHIN COMPUTERS LTD.

A UNIT OF KHALIL MULTIMODE GROUP

Answers for a new age
Acer product and marketing workshop at Singapore

Acer inc has organized a four -day Acer Product and Marketing Workshop at Singapore for its worldwide distributors. Distributors from 35 countries will participate this workshop. From Dolphin computers, Mr Mohammad A Wohab shall fly on 22nd Jan '93 to attend this workshop. During his stay at Singapore he will have meetings with other Acer distributors to explore various business avenues in a mutually beneficial perspectives for Dolphin and the respective organization.

CITech News

CITech's Computer for Bangla Academy

CITech is pleased to present 10 computers to the most esteemed organization in the area of Bangla literature and language development, Bangla Academy, on behalf of the famous computer producer 'Apple' for the purpose of research, lexicography and composing of science encyclopedia.

Buy a DEC pc and Fly to Singapore

CITech has recently announced raffle draw on every 50 DEC pc it will sell. The two lucky buyers will get return ticket to Singapore free.

CITech Sets Novell Base at Proshika

CITech has installed a 20 user Novell on DECpc at Proshika Manobik Unnayan Kendra which is one the largest IBM compatible NetWork users in the country.

CITech Co Ltd
22, Bijoy Nagar, Dhaka. Tel: 412201

DESKTOP COMPUTER CONNECTION LTD

Desktop Received Compaq High Achiever Award

Desktop Computer Connection Ltd has earned 2nd time Compaq High Achiever Award for its Performance in 3rd quarter. Desktop Computer Connection Ltd is the only Dealer in Bangladesh Which has achieved Two Times Compaq High Achiever Awards. These awards include free Ticket to Australia and attractive benefits.

Multiplatform and Information Systems Architecture

from routing to file access. An AppleTalk provides a link access protocol for Apple to access Ethernet and Token Ring hardware. Apple designed it's AppleTalk network to be consistent with the OSI model to make Macintosh based LANs an integral part of Network system. Digital Equipment's DECnet is a proprietary protocol to bring DEC users into network environment through Digital Network Architecture (DNA), Which is a 7 layer protocol almost identical to OSI.

Interconnecting Networks

It is necessary to interconnect the networks to complete a total network environment. Inter networking technology comes in the basic forms of Repeaters, Bridges, Routers, and Gateways. Repeaters work strictly in the first layer of the OSI model, and their main task is to increase the geographical coverage of a single LAN. Bridges connect separate networks that has compatible addressing scheme. In effect, a bridge makes multiple networks look like a single entity. Routers connect networks that may use different technologies but share a common protocol. For example, a router can connect an Ethernet LAN using DECnet with a token ring LAN using NetBIOS, if both use TCP/IP as an inter networking protocol. When a packet of information reaches the router, it accepts only the TCP/IP packets. The DECnet and NetBIOS packets remain on their won networks. Gateways are used to connect PC LANs to larger systems. In general gateway provides two similar functions : they give LAN users access to other host computers; they connect network operating systems of different types. As an example, a gateway can allow an employee on a PC LAN to gain access to an IBM mainframe on an SNA network. Gateway can also connect two LANs that run different communication protocols. For example, a TCP/IP gateway can give users of a NetWare LAN access to a separate TCP/IP LAN. LAN gateway translates data formats. A common type of gateway links the PC based LAN to a device that uses a completely different data alphabet and signaling system, such as IBM's SNA communication system for mainframe computers.

Operating System

The integration at the hardware and software level

The OSI reference model

Level 7 : Application	User Programme
Level 6 : Presentation	The way data is represented in the computer
Level 5 : Session	Provides connecting services such as establishing and maintaining session.
Level 4 : Transport	Provides reliable host-to-user communication and error checking.
Level 3 : Network	Responsible for addressing, routing and relay control information required to control data.
Level 2 : Data Link	Provides host-to-host delivery across a LAN protocol, Example : Ethernet, Token Ring, FDDI etc.
Level 1 : Physical	Actual electrical process of transferring data.

Microsoft NT (New Technology) has been developed to work as complete operating systems. OS/2 provides an all in one operating system that can run multiple DOS, windows and 16 bit and 32 bit OS/2 applications concurrently from a single operating system. OS/2 developed into a robust server platform. OS supports multiprocessing. In a later version OS/2 applications concurrently from a single operating system. OS/2 provides an all in one operating system that can run multiple DOS, windows and 16 bit and 32bit OS/2 applications concurrently from a single operating system. OS/2 developed into a robust server platform. OS supports multiprocessing. In a later version OS/2 intends to provide a portable kernel that will run on Intel and non Intel RISC processor, and new file system technologies, symmetric multiprocessing, and processing of POSIX (Portable Operating System Interface for Computer Environment) applications. Microsoft NT (New Technology) is expected to emerge as the premier server platform for PC.

Security Issue : Security is a major issue in the network and application level. Among numerous products MIT's Kerberos showed promising success. Kerberos authentication system augmented with some HP security features has been adopted by Distributed Computing Environment (DCE), the most significant open systems standard for heterogeneous client/servers. Kerberos is a protocol that is based on mutual distrust. Both the client and the server mutually authenticate one another by exchanging tickets (little secrets) with a trusted third party (Kerberos Server). In an ideal computing installation, the network promises the integration of a multiplatform environments. In a multiplatform environment the work station is connected to a network of hosts and server computers. A multiple and simultaneous connections to different hosts and servers provide the users with the ability to access multiple applications originating in different sources from a single work station. While PCs, UNIX's, Minis and midrange computers add unique and extraordinary features in a network based integrated platform, the role of mainframe becomes more important than ever before. In such an environment it automatically turns into a corporate data repository, consolidating all the information generated and used by thousands of PCs and work stations sitting on desktops. With the use of Fiber Optics cable, the problem of network speed, and resistance to interference has been resolved to a satisfactory level.

The author is a senior staff at Computer Centre of King Faisal Specialist Hospital and Research Centre, Riyadh, Saudi Arabia.

International B Sc Degree in Computing

By Staff Correspondent

In Bangladesh Microland International Institute of Computer and Electronics (IICE) has obtained provisional recognition for the purpose of preparing students for the BSc degree in Computing and Information Systems for External Students of the University of London. This institute is inviting students for processing admission for the session 1994-95 and will start class of level 1 course first time in Bangladesh from June 1, 1994 for May 1995 examination. Study for the degree is either on a part-time or full-time basis. The degree is divided into three levels and period of study is 3 years for a full- time students and 4 years for a part-time student

In order to be admitted to the BSc Computing and Information Systems, students must be at least 17 years old and be able to satisfy both the general entrance requirements for the degree. External students are mainly aged 25-45, though the full range, runs from 18 to 80, and beyond.

Examinations will be held at the British Council, Dhaka in mid-May each year. Degrees will be awarded with first class honours, second class honours. Third class honours and also a pass degree.

credit or DPM Diploma passed with' credit or ICS Advanced Diploma or BCS exams part 1. Students/service holders over the age of 21 years but do not hold these qualifications may be asked to complete a course of study before entry as a means of preparatory course for degree level study. Microland higher diploma in Computing Science is under consideration as one of the prerequisite qualification to enter into this course.

Examinations will be held at the British Council, Dhaka in mid-May each year.

Hardware

PCMCIA Fax Modems

Designed to fit into a PCMCIA Type II slot, GVC Technologies' FM144/144V (P) modem ($499) operates as a V. 32bis modem with 14,400-bps send/receive Group 3 fax capabilities. The unit also includes V. 42 bis/MNP 5, V.42 error control, and automatic speed selection. Modifiable nonvolatile RAM can hold up to four telephone numbers.

Multi-Tech Systems' MT1432 LT data/fax modem ($599) fits into a Type II PCMCIA expansion slot. The MT 1432 LT incorporates V.32-bis/V.42 bis data and V.17 fax standards and includes MultiExpress data-communications and MultiExpressFax software. You can remotely configure the unit

Portable Multimedia PC

The lunch box-style Regal/Multimedia Protable PC ($4995) from Micro Express is based on a 33-MHz 486DX and includes a 10-inch active-color VGA LCD display, a CD-ROM drive, a 200-MB hard drive, a Sound Blaster Procard, external stereo speakers, and a microphone. Simultaneous LCD and external Super VGA displays are possible.

One-Finger Typing Aid

Intended principally for one-finger typing, the Keypen ($98) from AIZ is a stylus for pressing keys on a keyboard. The pen, like wand has Ctrl, Alt, and right — and left-hand Shift buttons and a small rubber tip. For a Ctrl, Alt, or Shift function, you use the keys on the Keypen.

Heavy-Duty Cursor Controller

Designed for unfriendly environments, the DuraPoint cursor controller ($279) from Interlink Electronics contains no moving parts and is sealed against liquids, dirt, and dust. Compatible with DOS, Windows, and OS/2, the unit includes serial and PS/2 mouseport interfaces.

SCSI Adapter

New Media's Visual Media PCMCIA SCSI adapter card ($229) includes a SCSI adapter on a Type I PCMCIA slot— equipped laptop or notebook computer to as many as seven logical SCSI-based peripherals via a 22-inch cable with Centronics, DB-25, or SCSI-2 options. The card includes 32 KB of memory, an ASPI Manager driver, diagnostics, and test software.