It is safe (for the time being anyway) to proclaim that the minicomputer still lives despite all the predictions to the contrary. According to many industry watchers, the feeling for the past few years was that the minicomputer, caught in the squeeze between the microcomputer and the superminicomputer, would be extinct by now. Instead, it still maintains a firm toehold in the computer industry, and in some areas, is not just hanging on, but proliferating. It seems to be carving out some new niches for itself, and taking on new roles. However, minicomputer vendors must keep stepping to a fast beat to keep the minicomputer in the running and prevent it from succumbing to the pressures from both ends.

In order to stay competitive, minicomputer vendors have reduced minicomputer prices, increased capabilities, and introduced new low-end models to keep the edge over microcomputers. These tactics will stimulate the growth of minicomputer sales, although not to the extent of premicrocomputer days. Industry surveys show that the growth rate for minicomputers has decreased, but is still holding at a healthy level. For example, IBM sold more of its 16-bit Series 1 systems last year than ever before. It is predicted that 1985 will be a \$13 billion year for minicomputers. Shipment growth for small business systems is predicted at 21 percent, office systems at 34 percent, and workstation systems at 110 percent.

This is not to say that the microcomputer, with its increased power and performance, and the declining prices of the supermini are not threats to the existence of the minicomputer. They certainly are, and will continue to be. But for the moment, all three levels of systems are still needed.

Because of the similarities in the various capabilities of the three levels of systems, the lines of definition are blurred to say the least. For the purpose of this report, the systems are distinguishable mainly by their word length. The minicomputers listed in this report are characterized as follows: Although microcomputers and superminicomputers continue to put the squeeze on, the minicomputer still is doing well. This year's report shows that mini vendors have introduced both low- and high-end models to existing families to allow a greater growth path, and are carving out new roles in the industry. This report provides detailed comparison charts that present the salient characteristics of 155 minicomputers from 52 vendors. The text of the report discusses the current state of the minicomputer market, and provides both a guide to the chart entries and guidelines for selecting minicomputer systems.

- A word length of 8, 16, 24, or 32 bits
- A data bus that transfers less than 32 bits to memory from existing storage
- A main memory capacity of less than 10 million bytes
- A typical configuration price of about \$30,000 to \$60,000

Traditionally, minicomputers were considered 8-, 16-, or 24-bit systems. But we are now seeing 16/32-bit microprocessor systems with 32-bit addressing and 16-bit databus architecture providing power comparable to, and sometimes surpassing, that of the 16-bit systems. Therefore, we feel that such systems should also be included in this report.

As the system features continue to overlap, it will undoubtedly become more difficult for a user to decide which type of computer to purchase. The bottom line is that users must analyze and buy a system according to their specific needs rather than rely on any specific type of system. It is also important for a user to consider what his or her future



The Nixdorf 8850 basic configuration consists of a central processor, an 8MB disk, 9/1600 bpi autoload tape, a 150-cps printer, a terminal, and communications capabilities.

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The Wicat S160 basic configuration offers a central processing unit with 512KB memory, an 8MB disk, a 9-track tape drive, the operating system, a language, and communication ports

requirements will be, and whether the system will expand to meet these requirements. Also, in case further expansion might be required, the system should be compatible with a larger system for upgradability to avoid hardware and/or software reconfiguration costs. In addition to expandability, other features to be considered in choosing a system would include:

- Reliability
- · Processing speeds
- Memory
- Disk storage capacities
- Terminal support
- Effective communications/networking capabilities

- Access control and security
- Vendor reputation
- · Peripheral compatibility
- Availability and variety of proven software
- Support
- Price

It is interesting to note that, in surveying various users, many chose one system over another simply because of "vendor reputation." This reliance on reputation may cause many users to choose a mini vendor over a "newcomer" micro vendor. Reliability was also high on the list of reasons for choosing one system over another. Amazing as it may seem, price seemed to be the least-considered factor.

MINICOMPUTER ADVANTAGES

Minicomputers still have some advantages over the microcomputers, although as the micros become more powerful and provide more capabilities, the space between them is becoming increasingly narrower. Many applications can execute at the same speed on a micro as on a mini, but we have to keep in mind, as mentioned above, that it is important to measure all of a system's capabilities.

Main memory technologies are improving across the board. Many of the vendors listed in the comparison columns have increased their maximum memory to 8 megabytes, and several of the systems offer more—some as high as 16 megabytes. This reflects the increase in memory chip capacity and the continuing drop in memory chip prices.

The ability to expand is still one of the greatest advantages of a minicomputer. Minis can handle a large number of terminals, large-capacity disk drives and multiple printers. When a user needs more disk space for example, he/she can usually just connect an additional drive. Often this is not possible with a micro. Micros cannot yet support the number or variety of devices that are available for minicomputers. Also, most minicomputer vendors are committed to providing product lines that allow users to easily upgrade to a more powerful system as their business needs increase. Should a user outgrow the present system, most vendors have a larger system the user can move up to. In many cases, the original peripherals and software are portable to the larger system, protecting much of the user's investment. Micro vendors are not yet supplying a product line that offers the user this type of an upgrade path. However, many mini vendors, in order to hold their share of the market, are now also offering micros that can either be used as standalone systems, or be connected to a mini. It is definitely important to consider this issue of upgradability if a business is expected to grow substantially in the years ahead.

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The advantage of greater disk capacities is related to the issue of growth. Micros typically support Winchester or fixed disk in the range of five to thirty megabytes. And the number of disks that can be attached to micros is often very limited. On the other hand, minicomputers can support hard disks to provide for capacities of over one gigabyte. In fact, 22 systems listed in the comparison colums at the end of this report show a maximum disk capacity of over one gigabyte. Again, this support for greater disk storage serves to protect the user's investment in hardware, since a user can usually attach another drive to the present configuration when more disk storage is needed.

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Minicomputers also provide for greater communications capabilities. Local Area Networks (LANs), which provide the capability to interconnect multiple devices within a company, expand the capabilities of a minicomputer beyond that of a single system. Many are calling the LAN concept the backbone to the office of the future, where individual offices in every company are interconnected for high-speed communication. Through the use of a LAN, users can share valuable company resources, such as data bases, large-capacity storage devices, and high-speed printers, that would be too expensive to justify for each system alone.

The many other advantages of local area networks provide numerous benefits to the user. Many systems are adopting the use of Xerox' Ethernet and it is viewed as the defacto standard by many. Other vendors offer their own proprietary LANs such as Datapoint's ArcNet and Digital Equipment's DECnet. Just glancing at the entry for protocols supported in the comparison charts shows that most minis can talk with IBM mainframes or support IBM's System Network Architecture (SNA). Microcomputer communication capabilities are growing and changing rapidly, but minicomputers, as departmental hosts and file servers, will play a big part in the future as the connection between the micros and organizational mainframes or superminis.



The Inforex Gen-V offers data collection and office automation in both centralized and distributed environments. As a multiuser, multitasking system, it supports up to 28 terminals which can be used for data entry, word processing, spreadsheet, and database management.

Another important issue is that of data security. Most minicomputer systems provide storage protection, whereas in many cases, microcomputer data is stored on diskettes and much more vulnerable to loss or tampering. Of the systems listed in the comparison columns, at least 90 offer storage protection. In addition, minicomputer information is centralized, preventing duplication of data. Since data is shared in minicomputer memory and storage, changes need only be made once, and only one copy of data is maintained. The correction can be made quickly and easily, ensuring the integrity of the data. With micros, the data is often duplicated on multiple diskettes to allow different individuals the use of the same information. Making these changes on all copies to maintain the integrity of the whole system can become very cumbersome and inaccurate, and can waste time.

The software issue is a particularly important one. Probably the greatest strength of the minicomputer is the software availability and compatibility in both systems and applications software for computer system families. More and more mini vendors are realizing the importance of protecting their current users' investments by building this compatibility into their software. Minicomputer vendors that are beginning to also offer micros will eventually be offering software compatibility right up the line. Micro vendors, realizing the need for software compatibility among systems, are looking to standardized operating systems such as Unix. However, although applications software is being developed for these systems at a fast pace, it has yet to be proven in dependability in many cases, and does not yet equal the availability of minicomputer software.

The wealth of application software written for minicomputers is astounding. Minicomputer vendors that don't supply software are heavily involved in programs that encourage third-party software vendors to write application software for the mini vendors' systems. Through specific software programs, mini vendors have carved out market segments for their systems that will be hard to compete against. Microcomputer vendors are still trying to do all things for all users. Until these vendors determine their particular market segments and strengths, the minicomputer will continue to dominate in vertical markets.

The existing software base of the minicomputer is also helping the mini to hold its ground against the superminicomputer. Users have a substantial interest in trying to protect their software investment because of the expense in converting existing applications to the longer word length. To determine whether a 32-bit system would benefit an application, the raw performance of the application must be considered. If the application is performance driven rather than memory driven, then a 16-bit system may give the application more performance for the same price. This is true because more of the circuitry of a 16-bit system can be dedicated to processing speed and parallelism rather than to managing the longer word length and larger instruction set. If the cost of two systems is close, and if the 32-bit

instruction set does not benefit the application, then the 16bit system will generally give more performance for a specific application.

Minicomputer vendors have the advantage of years of experience in providing multiuser systems to solve the needs of specific applications. Also, mini vendors provide more than just "minis." They are more like full-service companies providing software, communications capabilities, peripherals, and even microcomputers that attach to and utilize the capabilities of the minicomputer. In addition, minicomputer vendors with happy, satisfied customer bases will likely hold onto these customers as long as needed enhancements and support are provided. Users want vendors that can "tie it all together" for them.

Despite these advantages, the threat posed by microcomputers is real. The market will continue to change in the months ahead and minicomputer vendors will have to revise their strategies to fight the tide of micros trying to infiltrate their ranks. However, micro vendors are not to be underestimated. They are well aware of any shortcomings and those areas are definitely being addressed with solutions close at hand.

THE MINICOMPUTER MARKET

The minicomputer market is buzzing in spite of, and because of, the microcomputer threat. We are beginning to see the mini assuming other roles in the industry. Previously, engineering/scientific systems offered just technical applications. Now we are seeing them moving into other application areas. We are seeing minis offering higher level office automation, and moving into specialized areas and vertical markets such as computer aided design and engineering (CAD/CAE), manufacturing, process control, distribution, data collection, and transaction processing. The mini is also carving out a niche in the area of communications. It can serve as a node in a nationwide network, as a file server and gateway to mainframes, and as a controller and departmental host supporting a network of micros. For example, the IBM System/36 is promoted as a departmental computer. Linking each micro to a mainframe would cause spiraling communication costs, whereas the use of minicomputers as departmental processors to control the data flow between micros and mainframes is much more cost-effective, and also increases security. This linking creates the need for software compatibility between micros and minis, which software firms are already beginning to achieve. For example, Hewlett-Packard has introduced networking software for its HP 3000 that allows its office automation systems to include micros, and Burroughs is providing software for the B 90 to allow connection of micros and minis.

One way minicomputer vendors are combating the squeeze from the microcomputers is to introduce low-end minis that are price competitive with the microcomputer, but provide more capabilities. This enables a small, cost-conscious business to purchase the power and capabilities it presently needs, with the option to expand up to the family's high-end system as their business grows without reconfiguration of either hardware or software. To mention a few, this past year, Hewlett-Packard introduced the Series 37, the low-end to the HP 3000; Digital Equipment introduced its Micro PDP-11/73, a low-end system for the PDP family; and Wang introduced its VS 15. These low-end systems all provide software and hardware compatibility, the same online interactive abilities, and the same networking and data communications capabilities as their high-end counterparts. The low-end *base* systems all range around the \$15,000 figure, which provides competition for the micros. More and more of the minicomputer vendors are also offering micros that can be networked with their minicomputers.

In order to stay competitive with the micros in the space area, mini vendors are reducing the size of their systems. Many minis are now offered in several packaging options, which range from desktop workstation configurations that take up no more room than a micro, to floor consoles that sit neatly beside a desk or slide compactly under a desk, but all providing the same capabilities. In addition, minis are being produced as ruggedized industrial products that can be placed in any environment without special wiring or air conditioning.

Marketing and distribution strengths many times decide the survival rate of vendors. Trends show that minicomputer vendors are seeing the advantages of using Value-Added Resellers (VARS). DEC is one vendor that has realized this and taken advantage of it for years. Vendors that previously shunned this area of the marketplace are now realizing that VARs have the application software, industry knowledge, and marketing skills to successfully market their products to end users.

The coming year will show vendors continuing to unlease new systems, some with entirely new technologies. For instance, Hewlett-Packard plans to introduce a new generation of minis with a system design totally different from those of its other systems; it is known as RISC, which stands for reduced instruction set computers. Other vendors are also taking a close look at the RISC design, including IBM, DEC, and AT&T. However, users may be a little leery of switching to a new technology at first because of software and hardware compatibility, and the possible conversion cost.

At any rate, it will be most interesting to watch the minicomputer's future unfold, and to see how many of the minicomputer predictions made by industry watchers turn out to be accurate.

THE COMPARISON CHARTS

The key functional characteristics of 155 commercially available minicomputers from 52 vendors are presented in the accompanying comparison charts. Most of the information in the charts was supplied or verified by the vendors during February 1985. Every attempt was made to include all the major suppliers of minicomputers in this report. The

absence of any company's product from these comparison charts means either that the company was unknown to us or that it failed to respond to our repeated requests for information. The staff at Datapro Research Corporation greatly appreciates the cooperation of the vendors that did respond in the preparation of these charts.

All of the comparison chart entries are explained in the following paragraphs, together with discussions of their significance to prospective buyers and some guidelines for selecting the most appropriate minicomputer for specific applications.

Note: a dash (—) in a column indicates either that the vendor did not supply the requested information, or that we were unable to complete the entry with the information that was supplied.

WORD LENGTH

Probably the single most important distinguishing characteristic of a computer is its word length; that is, the number of bits (binary digits) that can be stored in or retrieved from main storage during a single cycle. In general, the longer the word, the greater the efficiency and accuracy of a computer's internal operations—and the higher its price tag.

Most of the minicomputers currently on the market have a 16-bit word length; this size neatly accommodates two 8-bit bytes (characters) and has been shown to yield an attractive balance between economy and performance for many applications. Other systems use an 8-bit word length. These 8bit systems are suitable for many functions where low cost is more important than high precision or sophisticated instruction repertoires.

Many minicomputers are now featuring 32-bit word lengths with 16-bit data transfer. These systems generally are based on the Motorola MC68000 microprocessor, The National Semiconductor NS16032, or similar merchant microprocessors. These systems have a 16-bit data bus with 32-bit internal architecture.

Systems providing I/O architectures of more than 16 bits (generally 32 bits) are featured in "All About Superminis" in DATAPRO 70.

MAIN MEMORY

The minimum and maximum amount of main storage available for each computer, expressed in thousands of bytes (KB) or millions of bytes (MB).

DISK STORAGE CAPACITY

This indicates the minimum and maximum online storage capacities offered by the system. The indicated storage capacities are shown in millions of bytes (MB) and indicate the range of disk storage capacities available for the systems or simply the maximum disk storage capacity of the system.

NUMBER OF WORKSTATIONS SUPPORTED

A very important consideration for many potential computer users is the number of workstations the system can support. Workstations, in this case, can mean most types of devices that can input and/or receive data from the computer. When the computer is used in a business environment, for example, the workstation would normally be a display terminal, but in a manufacturing or distribution environment, the workstation could be a sensor or transmission unit that simply transmits signals back to the computer for processing.

PRICE RANGE

Ideally, these figures represent the upper and lower prices for system hardware, from the minimum processor complex to a fully configured system. The figures actually presented in the columns can vary according to vendor response. In cases in which only one figure is quoted (for example, "From \$100,000"), the price is usually that of the minimum processor complex only.

TARGET MARKET

This indicates the industries toward which the system is geared. In many cases, the market is indicated in general terms capable of further refinement. For example, "Business/Commercial" is refinable into general accounting, transaction processing, and inventory control.

CENTRAL PROCESSOR

CPU manufacturer and model identifies the manufacturer and model of the minicomputer or microprocessor used as the system's central processing unit (CPU). An entry of "proprietary" indicates that the vendor supplies its own CPU and that the model is generally identical to the model designated at the top of the chart.

Hardware floating-point facilities are included in the standard instruction repertoires of many currently available minicomputers. A hardware floating-point removes the burden of performing floating-point arithmetic from the CPU, and, thus, enhances system processing speed. In the absence of hardware floating-point, floating-point arithmetic would have to be performed through time- and spaceconsuming subroutines in the operating system.

The entries under this heading usually indicate that the system's hardware floating-point is single-precision, double-precision, or a combination of both. The precision of the floating-point is an indication of the number of bits on which it can operate simultaneously, generally expressed in arithmetic increments of 32; for example, a single-precision floating-point can operate on 32 bits simultaneously, a double-precision on 64, and so forth.

Battery backup permits an orderly shutdown of the system in the event of an electrical failure or another sudden interruption. If battery backup is not or cannot be implemented, all data in main storage at the time of the interrup-

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 tion can be lost. This entry indicates whether battery backup is standard, optional, or inapplicable to a system.

A realtime clock or timer is another essential element in most "time-conscious" systems. A realtime clock enables the program to determine the time of day, while an interval timer usually indicates the amount of time that has elapsed since the occurrence of some significant event. In many cases, the timer can trigger an interrupt signal when a predetermined interval of time has elapsed. The entry indicates whether the clock or timer is standard, optional, or inapplicable to the system.

CPU cycle time, nanoseconds indicates the time that elapses between the CPU's call for data and the delivery of that data from a storage device by the I/O section of the processor.

MAIN STORAGE

Bytes fetched per cycle is the number of bytes accessed by main storage in a single read.

Memory access indicates the number of bits transferred per second from auxiliary storage to main memory.

Cycle/access time, nanoseconds indicates two benchmarks of the system's main storage. The *cycle time* is a minimum time interval that must elapse between the starts of two successive accesses to any one storage location. Though cycle time ranks with word length as one of the most significant individual indicators of a computer's performance potential, one cannot assume that the computer with the fastest cycle time will be the best overall performer in a particular application. Other parameters that have an important effect on a computer's performance include the flexibility and power of its instruction repertoire, the number of storage cycles it requires to execute each instruction, and its input/output capabilities. *Access time* is the actual elapsed time between the CPU's request for data and the time when that data is received (read) in memory.

Storage protection is a feature that prevents unauthorized writing in or reading from certain areas of main storage. The protection can be accomplished through hardware, software, or a combination of both. Though unnecessary in simple dedicated systems, an effective storage protection scheme is an essential element in multiprogramming and time-sharing environments. The entry indicates whether storage protection is standard, optional, or inapplicable to the system.

Increment size, bytes denotes the size of the add-on units used to increase the system's main memory.

Cache memory is a high-speed storage unit that can significantly increase the performance of a computer by serving as a fast-access buffer between main storage and the central processor or the input/output subsystem. The entry indicates the capacity of the cache memory unit, in bytes, if applicable to the system.

INPUT/OUTPUT CONTROL

The *number of I/O channels* indicates the maximum combination of high-speed and low-speed channels that can be used to connect peripheral controllers to the CPU. Lowspeed lines are used to connect such devices as terminals, printers, and card equipment, while high-speed lines connect mass storage devices like disk and magnetic tape subsystems.

The *data transfer rate*, sometimes referred to as the "I/O bandwidth," is a measure of the computer's ability to transfer data to and from peripheral devices or other external sources through all available I/O channels, buses, and ports. The transfer rate is indicated in thousands or millions of bits per second (M or K bps) or thousands or millions of bytes per second (KB/second or MB/second).

COMMUNICATIONS

Maximum number of lines indicates how many data communications lines can be handled by a particular system. The types of lines are specified in the next two entries.

Synchronous lines are those featuring synchronous data transmission. In this mode of transmission, bits or characters (composed of 5 to 8 bits) of data pass through the line in blocks at a relatively constant rate regulated by synchronizing characters at the beginning of each block.

The entries indicate whether synchronous lines are standard, optional, or not applicable to the system; where possible, the maximum speed of each line in bits per second (bps) is noted.

Asynchronous lines feature asynchronous data transmission, in which characters are transmitted individually at irregular rates. A start bit precedes each character, and a stop bit follows it. The entry tells whether asynchronous lines are standard, optional, or inapplicable, and also notes the line speed in bps.

Protocols supported indicates which intersystem communications conventions, if any, are supported through the availability of appropriate hardware and software facilities.

Type of LAN supported indicates local area networks that can be used to link the system to other computer systems within a limited area, such as an office building. An example would be Xerox' Ethernet LAN.

RJE terminals emulated indicates which of the popular remote job entry terminals, if any, the system can be equipped to emulate. Programs that emulate the functions of the IBM 2780, 3780, and HASP terminals, for example, are available for many of the current minicomputers.

IBM 3270 emulation indicates whether the system can be equipped to emulate the functions of the widely used IBM 3270 display terminals.

PERIPHERAL EQUIPMENT

These entries provide details on the standard peripheral devices available for use with each computer system.

Disks supported indicates the types of disk media available for use on the system. Most responses indicate a mixture of fixed and removable disk drives. Fixed disk drives include those employing Winchester technology and those using older fixed-media technologies. Removable drives are those that employ disk packs and cartridges. This entry also supplies the storage capacities of the disk devices that are compatible with the system.

Serial printers generally range in speeds from about 30 to 600 or more characters per second (cps), employ various matrix and daisywheel technologies to print a character at a time, and are frequently able to print bidirectionally (that is, while the print head is moving in either direction across the page). These printers are usually used in smaller configurations, and provide excellent-quality hard-copy reports for far less money than the line-at-a-time printers usually used with larger systems. This entry indicates the speeds of the serial printers available for the system.

Letter-quality printers are low-speed serial printers (generally 30 to 55 cps) used in office automation applications to produce correspondence-quality documents. This entry provides the speeds of the letter-quality printers available for the system.

Line printers operate at speeds of 100 to 2000 or more lines per minute (lpm) and are used most frequently in large configurations. This entry gives the speeds of the line printers available for use on the system.

Reel-to-reel tape drives indicates the applicability and the speed in inches per second (ips) of tape drives that accommodate industry-standard ¹/₂-inch wide magnetic tape.

Streaming tape drives permit data to be transferred to a tape without the tape stopping between data blocks; this high-speed transfer makes streaming tape drives valuable as backup media for fixed disks. This entry indicates the speed of the tape in inches per second (ips) and, where applicable, the presence of a start/stop mode that permits the streaming tape drive to emulate conventional tape subsystems.

Cassette/cartridge tape drives indicates the availability and recording densities in bits per inch (bpi) of I/O devices that accommodate low-cost magnetic tape cassettes or cartridges. In some cases, the capacity of the cassette/cartridge in millions of bytes (MB) is given.

Other peripherals supported lists the additional peripheral devices that are available for each system. Typical entries include card readers and punches, plotters, laser printers, and graphics workstations.

SOFTWARE

Software—the programming packages and languages used to direct the computer's operations—is a crucial component of any computer system. When you select a system, it is imperative that you carefully investigate the available software. Areas of investigation should include: operating systems; programming languages; preprogrammed utility packages, such as sorts and file maintenance; and application packages, such as payroll, graphics, CAD/CAM, and others. Prospective buyers should carefully note whether the software they will require is included in the cost of the system or offered at extra cost.

Vendors' claims and promises concerning the availability and capabilities of software should be carefully checked. This is particularly true of software that has been announced but not yet released. Sometimes the delivered product does not live up to its touted capabilities.

An assembler is a special-purpose program that uses the computer's power to facilitate the preparation of other programs. It enables the programmer to write his or her own programs in a simplified format that uses mnemonic operation codes and symbolic operand addresses. The assembler program then converts these symbolic instructions into their machine-language equivalents, producing computer programs ready for loading and execution. Entries here indicate the availability of an assembler, a macro assembler, or both. A macro assembler is another software tool that makes the programmer's job easier. Macro routines can be called by the programmer and copied right into the program. This saves the programmer from having to recode the routine each time it is used, and also eliminates the possibility of keying errors when that part of the program is entered. As usual, there is a price to pay; macros usually consume large quantities of memory space.

Compilers are software tools that shift part of the program preparation task from the user to the computer itself by converting programs written in a simplified, procedureoriented language into machine-language object programs. Compilers are now used in virtually all large- and mediumscale computer installations because of their demonstrated ability to slash programming costs. This widespread availability has resulted from the development of more powerful central processors and for storage facilities.

Entries in this section of the charts may include widely used high-level programming languages like Cobol, RPG, Fortran, C, Basic, Algol, APL, PL/1, and Pascal, or proprietary languages that are available from a vendor for use on a particular system.

A word of warning here: if you use a language that is unique to a vendor, you may be faced with a problem if you eventually decide to change vendors. Your investment in software may be lost, for the programs generally will not operate on any other system.

► The operating system facilitates the operation of a computer by handling such functions as: scheduling, loading, and supervising the execution of programs; allocating storage and I/O devices; initiating and controlling I/O operations; analyzing interrupt signals and dealing with errors; handling communications between the system and its human operator; and controlling multiprogramming or time-sharing operations.

This entry indicates the types of operating systems available for the computer. Typical entries describing the available operating systems include: "batch," which means that the system processes one or more jobs sequentially and requires all data to be supplied before initiation; "interactive," which means that the system allows data and parameters to be entered as the job is executing; "realtime," which means that the system responds to external demands on a priority basis; or "time-sharing," which means that the system allows multiple users to access the system and share all its resources at the same time. The operating systems for many of the current minicomputers are capable of supporting two, three, or all four of the above modes of operation simultaneously.

Operating system implemented in firmware tells whether the language processor and the operating system are contained in microcode. The entries stipulate "fully", "partially", or "no" to indicate the extent of firmware implementation. Implementation of an operating system or language in firmware is advantageous to the user, for it frees more memory space for the user's programs and data. Also, because the microcode is generally contained in read-only memory, it is usually inaccessible to the user; thus, any possibility of the user's tampering with the language processor or operating system is eliminated and chances for error are reduced. Another advantage of firmware implementation is the ability to create more sophisticated and complex system functions at the hardware level. Microcode routines can be substituted for the usual subroutines, thereby increasing system performance.

A database management system (DBMS) is a software facility designed to manage and maintain data in a nonredundant structure so that the data will be conveniently available for processing by multiple applications. The DBMS organizes data elements in some predefined structure and keeps track of the relationships among the data elements, thereby facilitating information retrieval and report generation. The availability of an effective DBMS can greatly simplify applications programming tasks and increase the overall value of a data processing system. This entry provides the names of the principal database management systems available for the computer.

Principal industry application indicates the main types of software packages available for the computer's target market. Principal applications for the Engineering/scientific market would include CAD/CAE and power generation; principal applications for the commercial market would include transaction processing, distributed processing, of-

fice automation, and general business packages. In some cases, the vendors have supplied the names of specific application packages for their target industries.

Other packages are those software products that are not principal market applications for the system; they are secondary packages that are available for use in the target market and collateral markets. For example, a vendor in the commercial market could list an office automation package as the principal industry application and business graphics—useful but not primary for the target market—as the other package.

PRICING AND AVAILABILITY

Basic system configuration and price, intended to provide an accurate guide to the cost of the system, ideally shows a processor/peripheral configuration that would typically be used in the vendor's stated target business environment.

Although we requested full configurations and applicable prices, many vendors did not comply. Some provided only processor configurations and prices; others neglected altogether to provide hardware and pricing data. Where components and pricing for processor complexes only were supplied, we have left the information as is; potential buyers should thus be aware that the actual cost of a full system configuration could be many times that of the base processor price provided in the comparison chart. When vendors supplied no information, we developed our own sample configurations. Although we believe each configuration to be realistic and accurate, the reader must realize that, depending upon the configuration and pricing rules imposed by the vendor, the actual price of a workable system could vary from that supplied in the chart.

If you wish to buy two or more computers, it is worth noting that most of the manufacturers offer sizable discounts from their list prices on orders for multiple computers. Discounts of up to 40 percent are not unusual on large orders.

Monthly maintenance of basic configuration provides the amount to be paid per month on a maintenance contract with the vendor for service and repair for the basic configuration given above.

Date of first delivery indicates when the first production model of each computer was delivered (or is scheduled to be delivered) to a customer.

Number installed to date shows how many systems of each type had been delivered to customers as of December 1984/ January 1985.

COMMENTS

This final entry on the comparison charts is used to explain or amplify the preceding entries and to provide other pertinent information about each system's hardware, software, pricing, applications, or characteristics.

Alpha Microsystems, 17332 Von Karman, P.O. Box 18347, Irvine, CA 92714. Telephone (714) 957-8500.

Applied Systems Corporation, 26401 Harper Ave., St. Clair Shores, MI 48081. Telephone (313) 779-8700.

August Systems, 18277 S.W. Boones Ferry Rd., Tigard, OR 97224. Telephone (503) 684-3550.

Auragen Systems Corp., Two Executive Dr., Fort Lee, NJ 07024. Telephone (201) 461-3400.

Barrister Information Systems Corp., One Technology Center, 45 Oak St., Buffalo, NY 14203. Telephone (716) 845-5010.

BTI Computer Systems, Inc., 870 W. Maude Ave., Sunnyvale, CA 94076. Telephone (408) 733-1122.

Burroughs Corporation, Burroughs Place, Detroit, MI 48232. Telephone (313) 972-7000.

Cado Systems Corporation, 2055 W. 190th St., Torrance, CA 90510. Telephone (213) 323-8170.

Centurion Computer Corporation, 1111 S. Sherman, Richardson, TX 75081. Telephone (214) 644-3628.

Chislin Industries, Inc. Comp. Prod. Div., 31352 Via Colinas #101, Westlake Village, CA 91362. Telephone (818) 991-2254.

Chromatics, Inc., 2558 Mountain Industrial Blvd., Tucker, GA 30084. Telephone (404) 493-7000.

Computer Automation Inc., 1800 Jay Ell Dr., Richardson, TX 75081. Telephone (214) 783-0993.

Computer Consoles, Inc., 97 Humboldt St., Rochester, NY 14609. Telephone (716) 482-5000.

Computer Designed Systems, Inc., 10911 Olson Memorial Hwy., Minneapolis, MN 55441. Telephone (612) 545-2855.

Computer Extension Systems, Inc., 17511 El Camino Real, Suite 131, Houston, TX 77058. Telephone (713) 488-8830.

Datapoint Corporation, 9725 Datapoint Dr., MSV41, San Antonio, TX 78284. Telephone (512) 699-7000.

Digital Equipment Corporation, 146 Main St., Maynard, MA 01754-2571. Telephone (800) DIGITAL ext. 990, or (617) 897-5111 (corporate headquarters).

Display Data Corp., Executive Plaza IV, Hunt Valley, MD 21031. Telephone (301) 667-9211.

Four-Phase Systems, Inc., 10700 N. DeAnza Blvd., Cupertino, CA 95014. Telephone (408) 255-0900.

General Automation, 1045 S. East St., P.O. Box 4883, Anaheim, CA 92803. Telephone (714) 778-4800.

General Robotics Corporation, 55-57 N. Main St., Hartford, WI 53027. Telephone (414) 673-6800.

Hewlett-Packard Co., 19055 Pruneridge Ave., Cupertino, CA 95014. Telephone (408) 973-7646.

Honeywell Information Systems, Inc., 200 Smith St., Mail Station 506, Waltham, MA 02154. Telephone (617) 895-6000 ext. 6025.

Inforex, Inc., 186 Middlesex Turnpike, Burlington, MA 01803. Telephone (617) 272-6470.

Integrated Digital Products Corp., 4208 E. LaPalma Ave., Anaheim, CA 92807. Telephone (714) 993-5300.

International Business Machines Corporation (IBM), Old Orchard Rd., Armonk, NY 10504. Contact your local IBM representative

MAI/Basic Four Corporation, 14101 Myford Rd., M. Drop 245, Tustin, CA 92680. Telephone (714) 731-5100.

McDonnell Douglas Computer Systems Co., 17481 Redhill Ave., P.O. Box 19501, Irvine, CA 92714. Telephone (714) 250-1000.

MDS/Qantel Business Computers, 4142 Point Eden Way, Hayward, CA 94545. Telephone (415) 886-9596.

Modular Computer Systems, Inc. (MODCOMP), 1650 W. McNab Rd., MS 85, Ft. Lauderdale, FL 33310. Telephone (305) 974-1380.

NCR Corporation, 1700 S. Patterson Blvd., Dayton, OH 45479. Telephone (513) 445-5000.

NEC Information Systems, Inc., 1414 Massachusetts Ave., Boxborough, MA 01719. Telephone (617) 264-8000.

New England Digital Corp., P.O. Box 546, White River Junction, VT 05001. Telephone (802) 295-5800.

Nixdorf Computer Inc., 300 Third Ave., Waltham, MA 02154. Telephone (617) 890-3600.

Norsk Data North America, Inc., 55 William St., Wellesley, MA 02181. Telephone (617) 237-7945.

Northern Telecom Systems Corp., P.O. Box 1222, MS H221, Minneapolis, MN 55440. Telephone (612) 932-8000.

Parallel Computers, Inc., 3004 Mission St., Santa Cruz, CA 95060. Telephone (408) 429-1338.

Perq Systems, P.O. Box 2600, 2600 Liberty Ave., Pittsburg, PA 15224. Telephone (412) 621-6250.

Point 4 Computer Corporation, 2569 McCabe Way, Irvine, CA 92714. Telephone (714) 863-1111.

PolyComputers, 2259 Via Burton Way, Anaheim, CA 92806. Telephone (714) 870-7660.

PolyMorphic Systems, 5330 Debbie Rd., Santa Barbara, CA 93111. Telephone (805) 967-0468.

PolyRianda, Inc. (Div. of PolyComputers), 2259 Via Burton, Anaheim, CA 92806. Telephone (714) 870-7660.

Rexon Business Machines Corp., 5800 Uplander Way, Culver City, CA 90230. Telephone (213) 641-7110.

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Sentinel Computer Corporation, 9902 Carver Rd., Cincinnati, OH 45242. Telephone (513) 984-6622.

Sequent Computer Systems, 14360 N.W. Science Park Dr., Portland, OR 97229. Telephone (503) 626-5700.

Sperry Corporation, P.O. Box 500, Blue Bell, PA 19424. Telephone (215) 542-4011.

Terak Corp., 14151 N. 76th St., Scottsdale, AZ 85260. Telephone (602) 998-4800.

Texas Instruments, Inc., P.O. Box 2909, MS 2222, 12501 Research Blvd., Austin, TX 78769. Telephone (512) 250-7302. Tolerant Systems, 81 E. Daggett Dr., San Jose, CA 95134. Telephone (408) 946-5667.

The Ultimate Corp., 77 Brant Ave., Clark, NJ 07066. Telephone (201) 388-8800.

Wang Laboratories, Inc., 1 Industrial Ave., MS 13L6, Lowell, MA 01851. Telephone (617) 459-5000.

Wicat Systems, Inc., P.O. Box 539, 1875 S. State St., Orem, UT 84057. Telephone (801) 224-6400 □

MANUFACTURER AND MODEL	Alpha Microsystems 1042E	Alpha Microsystems AM-1072	Alpha Microsystems AM-1082	Alpha Microsystems 1092
WORD LENGTH	16/32 bits	16/32 bits	16/32 bits	16/32 bits
MAIN MEMORY	512KB-3MB	512KB-4MB	512KB-4MB	512KB-4MB
DISK STORAGE CAPACITY	60MB-240MB	70MB-280MB	140MB-280MB	400MB-1600MB
NO WORKSTATIONS SUPPORTED	26	Over 40	Over 40	Over 40
DRICE RANGE	20 \$21 700 \$25 400	\$20 500 \$24 166		
TARGET MARKET	Small business	Small business	Small business	Small business
CENTRAL PROCESSOR				
CPU manufacturer and model	Motorola 68000	Motorola 68000	Motorola 68000	Motorola 68000
Hardware floating point	Yes	Yes	Yes	Third party
Battery backup	Std.	Std.	Std.	Std.
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time nanoseconds	500	500	500	500
MAIN STORAGE				
Bytes fetched per cycle	2	2	2	2
Memory access	150ns	150ns	150ns	150ns
Cycle/access time, nanoseconds	500	500	500	500
Storage protection	Std.	Std.	Std.	Std.
Increment size, bytes	128K; 512K	128K, 512K	128K; 512K	128K; 512K
	None	None	None	None
		8		
No. of I/O channels		0 000KD (1	Baakb /	8
Data transfer rate	333KB/sec.	333KB/sec.	333KB/sec.	333KB/sec.
COMMUNICATIONS				
Max. number of lines	26	Over 40	Over 40	over 40
Synchronous	9.6K bps	9.6K bps	9.6K bps	9.6K bps
Asynchronous	19.2K bps	19.2K bps	19.2K bps	19.2K bps
Protocols supported	2780/3780	2780/3780	2780/3780	2780/3780
Type of LAN supported	None	None	None	None
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	No	No	No	No
Peripheral Equipment				
Disks supported	Winchester: 60MB	Winchester: 70MB	Winchester: 140MB	Winchester: 400MB
Serial printers	Any RS-232	Any RS-232	Any RS-232	Any RS-232
Letter quality printers	40 cps	40cps	40cps	40cps
Line printers	300-600 lpm	300-600 lpm	300-600 lpm	300-600 lpm
Beel-to-real tape drives	No	No	100 ips 1600/3200 bpi	100 ins 1600/3200 bpi
Strooming tang drives	20 inc. 9000 hoi	20 inc. 9000 hni	120 ips, 1000/3200 bpi	20 inc. 8000 bri
Concerts / contriduce tops drives			S0 Ips	30 lps, 8000 bpi
Other perpherals supported	VCR: 100MB	VCB: 100MB	NORE 100MB	VCR: 100MR
SOFTWARE	Assombler	Assembler	Assembler	Accomplet
Assembler	Assembler	Assembler	Assembler	Assembler
Compilers	Alpha Basic, Alpha	Alpha Basic, Alpha	Alpha Basic, Alpha	Alpha Basic, Alpha
	Pascal, IEEE Fortran,	Pascal, IEEE Fortran,	Pascal, IEEE Fortran,	Pascal, IEEE Fortran,
	Cobol	Cobol	Cobol	Cobol
Operating system	AMOS/L	AMOS/L	AMOS/L	AMOS/L
Operating sys. implemented in firmware	No	No	No	No
Database management system	Third party	Third party	Third party	Third party
Principal industry application	Accounting, word	Accounting, word	Accounting, word	Accounting, word
	processing	processing	processing	processing
Other packages	Wide variety of industry	Wide variety of	Wide variety of	Wide variety of
	applications sold	industry applications	industry applications	industry applications
	through dealers	cold through dealers	sold through dealers	sold through dealers
	anough dealers	aoia though dealers	asia anough dealers	solu triough dediers
basic system configuration and price	LFU, 512KB memory, 60MB	LFU, 512KB memory, /UMB	ICFU, 512KB memory,	ACOMP 12KB memory,
	Winchester, VCR	high-speed Winchester,	140MB high-speed Win-	400MB high-speed Win-
	interface, 2 ports, 9-	VCR interface, 2 ports,	chester VCR interface,	chester, VCR interface,
	slot chassis\$21,700	19-slot chassis—\$30,500	2 ports, 19-slot	2 ports, 19-slot
			chassis—\$48,000	chassis—\$56,000
Mo maintenance of basic configuration	Contact vendor	Contact vendor	Contact vendor	Contact vendor
Dete of first delivery		1002		1002
Date of first delivery	1303	1903	1963	1303
Number installed to date		<u> </u>		
COMMENTS	Prices quoted are	Prices quoted are	Prices quoted are	Prices quoted are
	suggested retail	suggested retail	suggested retail	suggested retail
			-	1
	L		L	

WORD LENGTH MAIN MEMORY DISK STORAGE CAPACITY DISK STORAGE CAPACITY TY DISK STORAGE CAPACITY DISK STORAGE CAPACITY DISK STORAGE CAPACITY DISK STORAG	Sectry BS UPPORTED 19/32 bits 198-468 2008-250006 19/32 bits 2567-2048 2567-2048 16 bits 2567-2048 16 bits 2567-2048 A dinded in dodel int Matorola 65010 No No
NAME NAME Note-Name State <	ACTTY INS SUPPORTED SS SUPPORTE
Dirks # 500AGE CAPACITY 70ME 320MB 400MB-100MB 30MB-300MB 30MB-300MB 50MB-300MB	PACTTY 70082:30048 40048-160048 50048 Not Regimed () 535,0000:587,000 Not Regimed () 535,0000:587,000 8 40048-100,000 550,000 500,500 500,500 </td
Sol. WORKEYATIONS SUPPORTED 16 16 10 16 10 <t< td=""><td>S SUPPORTED 16 10 16 10 16 10</td></t<>	S SUPPORTED 16 10 16 10 16 10
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PHICE RAVGE FRACE MARKET SS5.000 SP/.000 SS0.000 SP/.000 S	Seb 2000 Seb 7000 Seb 7000 Seb
TARGET MARKET Small business Small business Business/Communications Industrial control & Tachinal (ALD, Graphica) Industrial control & Static V manufacture and model hardware floating point Industrial control & Static V manufacture and model bable; pt. Coll Static V manufacture and model bable; pt. Coll Static V manufacture and model Battery backup Moreoria 68010 No Static Static V 200 None <	Small Dusiness Small Dusiness Basess (Communications) Industrial control & Technics/LOG. Graphics Industrial control & Dauble Opt. ad model ad model minit in int int int int int int int int int int
CRUTHAL PROCESSOR Motorola 68010 Std.	a Notronals 68010 Metronals 68010 Metronals 68010 Metronals 68010 Metronals 68000 Fourth 680000 Fourth 6
CPU manufacturer and model Hardware floating point Motorola 68010 Motorola 68000 or 80226 Double: Opt. Intel SEC 66/30 Double: Opt. <	di model Motorola 68010 Motorola 68010 Motorola 68000 re0236 Intel 58070 Double 351. Std. Std. Opt. UDC Pr. 0000 Pr. 0
Hardware floating point No. No. Double (pt. Double (pt. <thdoube (pt.<="" th=""> Double (pt. <th< td=""><td>No No Double: Opt. <thdouble: opt.<="" th=""> <thdouble: opt.<="" th=""> Doubl</thdouble:></thdouble:></td></th<></thdoube>	No No Double: Opt. Double: Opt. <thdouble: opt.<="" th=""> <thdouble: opt.<="" th=""> Doubl</thdouble:></thdouble:>
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Battery matching State Out	base Std. Std. <th< td=""></th<>
Heal-time clock or time Std. St	Here Std. Std. <th< td=""></th<>
CPU cycle time, nanoseconds 500 500 100 500 Pytes fiched per cycle 2 2 214 2 2 Pytes fiched per cycle 2 200 100 200 Storage protection 500 500 100 200 Increment size, bytes 128K, 512K 128K, 512K 128K, 512K 128K, 512K No. of 1/0 Channels 8 8 9.256 Up to 7000 Digital I No. of 1/0 Channels 9 8 9.256 Up to 7000 Digital I Synchronous 19.2K bps 13.2K bps 116 116/32 40 Max, muber of lines 19 19.2K bps 19.2K bps 0.00 0.00 Synchronous 19.2K bps 19.2K bps 19.2K bps 0.00 0.00 Type of LAN supported None None 2700/3780 None None Item function No None 2700/3780 None None None Strait parteria Any R5-232 Any R5-232 30-300 cps 100 cps 0.00 None Strait parteria Any R5-232 Any R5-232 30-300 cps 100 cps 0.00 100 cps Strait materia Strait printeris An	seconds 500 500 100 500 100 500 22 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 4 2
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Bytes fictuled per cycle 2 <td>cle 2 150ns 150ns 100 200 210 220 0pt, ECC 200, ECC 128, S12, S12, S12, S12, S12, S12, S12, S12</td>	cle 2 150ns 150ns 100 200 210 220 0pt, ECC 200, ECC 128, S12, S12, S12, S12, S12, S12, S12, S12
Memory access Cycle/access thermone, nanoseconds Storage protection Increment size, bytes150ns 500500 5009MB 20022 bits/microsec. 200200 Opt. Opt. 128K, 512K22 bits/microsec. 200200 Opt. Opt. 128K, 512K22 bits/microsec. 200200 Opt. Dot 128K, 512K22 bits/microsec. 200200 Opt. Dot 27 // Others Dot Dot Dot Dot Dot Dot Dot Max. number of lines Synchronous33 StB/sec.33 StB/sec.33 StB/sec.20 bits/microsec. 200200 Opt. Dot <br< td=""><td>anceseconds 150ns 150ns 9MB 22 00 so 500 500 100 200 Std. Std. Std. Opt. 0pt. g None 2/4K 128K, 512K 128K, 512K s None 2/4K None ROL 8 8 8 2/4K s 16 16/32 0pt. None 19.2K bps 13.2K bps 50.2 UUCP, CU UUCP, CU 17.7360, SNA.2BU UUCP, CU UUCP, CU 2780/3780 None None 2780/3780 None None 2780/3780 None None None None None 100 ips. 1600/3200 bpi 300-600 ipm 300-600 ipm 300-600 ipm 300-600 ipm 300-600 ipm</td></br<>	anceseconds 150ns 150ns 9MB 22 00 so 500 500 100 200 Std. Std. Std. Opt. 0pt. g None 2/4K 128K, 512K 128K, 512K s None 2/4K None ROL 8 8 8 2/4K s 16 16/32 0pt. None 19.2K bps 13.2K bps 50.2 UUCP, CU UUCP, CU 17.7360, SNA.2BU UUCP, CU UUCP, CU 2780/3780 None None 2780/3780 None None 2780/3780 None None None None None 100 ips. 1600/3200 bpi 300-600 ipm 300-600 ipm 300-600 ipm 300-600 ipm 300-600 ipm
Cycle/scess time, nanoseconds 500 500 100 200 Stordage protection Std. Opt. ECC 128K, 512K None 100, 100, 100, 100, 100, 100, 100, 100,	anoseconds sol 128K, 512K sol 128K, 512K 128K, 512K 128K, 512K 128K, 512K 128K, 512K 128K, 512K 128K, 512K 128K 187Z 19 2K bps 19 2K bps 10 2K 19 2K bps 10 2K 19 2K bps 10 2K 19 2K bps 10 2K 10
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Cache memory, bytes No.reNoneNone2/4KNoneNo. of U/O channels888-256Up to 7000 Digital I 100 km/LCATIONSUp to 7000 Digital I 100 km/LCATIONSData transfer rate COMMUNCATIONS333KB/sec.161616/3240MoneNoNoNo0pt.60K bytes/sec.40Asynchronous19.2K bps19.2K bps19.2K bps50K J/19.2K bps50K J/19.2K bps50K J/19.2K bps50K J/19.2K bpsType of LAN supportedNoneNoneNone2780/J3200NoneNoneBM 3270 emulationNoneNoneYesNoneNoneRE terminatis emulated NoneNoneNoneYesNoneNoneSerial primersAny R5-232Any R5-232300-600 pm300-600 pm300-600 pm300-600 pmStreaming tape drives SOF TWARE300-600 pm300-600 pm300-600 pm300-600 pm300-600 pmSOF TWARE DeasterAssembler Cobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, COpartian system Diricipal systemUnifyUnix System V NoNoneMultitaking, UNIX, MPM Vinchester. 20MB streaming tape, 2 serial porta-S3530Assembler Cobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, COpartian system Diricipal systemUnify System V NoNoneMultitaking, UNIX, MPM Vinchester. 20MB streaming tape, 2 serial porta-S3530CPU, 1MB memory, 400	s None None 2/4K None Up to 7000 Digital I/O 333KB/sec. 333KB/sec. 1MB/sec Dott MB/sec Dott MB/sec. 56K bps Dott MB/sec. 56K bps Dott MB/sec. 56K bps Dott. 719 2/K bps 10:2/K b
NPUT (JOUTPUT CONTROL No. of 1/J of hannels 8 333KB/sec. 9 3256 Up to 7000 Digital I 50K bytes/sec. Data transfer rate 333KB/sec. 333KB/sec. 11MB/sec 50K bytes/sec. Max. number of lines 16 16 16/32 40 Asynchronous 19.2K bps 19.2K bps 19.2K bps 19.2K bps 51C:19.2K bps 50K bytes/sec. Type of LAN supported None 19.2K bps 19.2K bps 19.2K bps 50K.1HDL 50K	FROL 8 333KB/sec. 8 333KB/sec. 8-256 1MB/sec Up to 7200 Digital I/O 50K bytes/sec. s 15 16 16/32 40 No 19.2K bps 19.2K bps Opt. UUCP, CU UUCP, CU T/Y, 3780, SNA, SDLC, 3270, MAP, Ethernet SDLC, HDLC ted None None Yes None No No No Yes None No No No Yes None SiNT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Remov.: 50MB-500MB Fixed: 10MB, 20MB, 40MI s 300-600 tpm 300-500 tpm 300-500 tpm 300-300 tpn 300-300 tpn s 300-600 tpm 300-300 tpn 300-300 tpn 300-300 tpn s 300-900 tpm 300-300 tpn 300-300 tpn None yort VCR: 100MB VCR: 100MB Fixed: 10MB-180MB None yort Assembler Cobol, SMC Basic, C Cobol, SMC Basic, C Assembler Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Unix System V Unix System V None None yilcation Unity System V None None Unity straining tap
No. of I/O channels B B S B	8 333KB/sec. 8 333KB/sec. 8 333KB/sec. 8-256 1MB/sec Up to 7000 Digital I/O 50K bytes/sec. a 16 No 16 No 16 No 16 No 16 No 0,0t. 36K bytes/sec. 40 Opt. 36K bytes/sec. ted None None 0,15 SK bytes 0,0t. 36K bytes/sec. 40 Opt. 36K bytes/sec. ted None None 19.2K bytes 51.19 2K bytes 50.10 L/C No None 270 MAP, Eternet None S0.16 Opt. 38 dK bytes No None Yes None None None No None 780 3780 M None None a Adops 30-300 ops 300 lpm 300-300 lpm s 30-600 lpm 30-600 lpm 30-600 lpm 30-600 lpm sobe dool ppi None None None None porticed VCR: 100MB VCR: 100MB None None porticed VCR: 100MB VCR: 100MB None None porticed VCR: 100MB VCR: 100MB
Totage under stream 333KB/sec. 333KB/sec. 10000 Diglim 5000 Diglim Allow Max. number of lines 16 16 16/32 40 Max. number of lines No No 0pr: 36K bps 0pr. Asynchronous No 19.2K bps 19.2K bps 0pr.: 36K bps 0pr.: 36K bps Type of LAN supported UUCP, CU UUCP, CU 3780/3700 None RJE terminals emulated None None None Std.: 19.2K bps None Disks supported Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB-200MB Serial primers Any RS-232 Any RS-232 30:300 cps None Disks supported Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB, 20MB Serial primers Any RS-232 Any RS-232 30:300 cps 30:00 cps None Sore-Bool pin 300 600 pin 30:00 sps 30:00 sps 100 pip. 160/3200 bpi 30:00 sps 100 pip. 160/3200 bpi None Sore-Bool pin-see 100 pip. 160/3200 bpi 30:pip. 30:00 sps 30:pip.	33XR/sec. 33XR/sec. 33XR/sec. 107/sec 50X Sytes/sec. s 16 16/1/2 0/0 No No 0/1.56K bps 0/0 19.2K bps 19.2K bps 19.2K bps 0/0 UUCP, CU UUCP, CU UUCP, CU 37/20 ted None None 37/20 No No No Std. 19.2K bps Std. 19.2K bps No None 13.2K bps Std. 19.2K bps Std. 10.2K bps No None None Std. 10.2K bps Std. 10.2K bps No No Yes None None No Yes None None None Std. 40:ps 200-600 pm 300-600 pm <t< td=""></t<>
Case trainer inter Solkeyset	as a fight of the set of th
ULMWINUK-A I LWNS Max, number of lines161616/3240SynchronousNoNoNoOpt. 356 k bps Opt. 356 k bpsOpt. 372 k ps Opt. 356 k bpsOpt. 372 k ps Opt. 376 k bpsOpt. 376 k bps Opt. 376 k bpsOpt. 376 k bpsNone	s 16 No 16 No 16 No 16 No 16/22 40 y 19.2K bps UUCP, CU UUCP, CU 00,1; 38.4K bps 00,1; 32.4K bps uted None None 2370, MAP, Ethernet 00,1; 32.4K bps s None None 2370, MAP, Ethernet None s None 2370, MAP, Ethernet None s None 2780/3780 None NT Winchester: 70MB Winchester: 400MB Fixed: 10MB, 140MB Any RS-232 Any RS-232 30.30.50 cps 30.30.50 cps 300 ps 160/3200 bpi 30.30.50 cps 300.50 cps 300 ps 160/3200 bpi 30.150 cps None y None VCR: 100MB VCR: 100MB None y VCR: 100MB VCR: 100MB VCR: 100MB Fixed: 10MLR laser printer, CCR, Scanner None unix System V Unix System V Unix System V Multitasking, UNIX, MPM Varies ASMB6 JTY cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, CT, Olaser, Computing, business, scientific, education Matrix splications JTY Unix System V No No Multitasking, UNIX, MPM Vide variety of industry applic
Max. number of lines 16 16 16 16/22 40 Asynchronous No No Opt. 156K bps Opt. 12 40 Asynchronous 19.2K bps 19.2K bps Opt. 156K bps Opt. 12 40 Type of LAN supported UUCP, CU UUCP, CU TY, 3780, SNA, SDLC, SLC, HDLC SDLC, HDLC <t< td=""><td>a 16 16 16/32 40 No No No Opt: 56K bps Opt: 53.4K bps Opt: 33.4K bps UUCP, CU 19.2K bps 19.2K bps Opt: 3270, MAP, Ethernet Dpt: 33.4K bps ted None None None None No None None None None NT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB-20MB Any RS-232 Any RS-232 Any RS-232 30-300 ops 30-300 ops 300-600 lpm 300-600 lpm 300 lpm None s 300-500 lpm 300-100 lpm None s 300-500 lpm 300 lpm None s 300-500 lpm 300 lpm None s 30 lps, 1600/3200 bpi None None None VCR: 100MB VCR: 100MB None VCR: 100MB VCR: 100MB None None None VCR: 100MB Unix System V Mattitaking, UNIX, MPM None No None None Unix System V Unix System V Mutitaking, UNIX, MPM Nothester, 20MB Unix System V Mutitaking, UNIX, MPM Nothester, 20MB Unix Syste</td></t<>	a 16 16 16/32 40 No No No Opt: 56K bps Opt: 53.4K bps Opt: 33.4K bps UUCP, CU 19.2K bps 19.2K bps Opt: 3270, MAP, Ethernet Dpt: 33.4K bps ted None None None None No None None None None NT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB-20MB Any RS-232 Any RS-232 Any RS-232 30-300 ops 30-300 ops 300-600 lpm 300-600 lpm 300 lpm None s 300-500 lpm 300-100 lpm None s 300-500 lpm 300 lpm None s 300-500 lpm 300 lpm None s 30 lps, 1600/3200 bpi None None None VCR: 100MB VCR: 100MB None VCR: 100MB VCR: 100MB None None None VCR: 100MB Unix System V Mattitaking, UNIX, MPM None No None None Unix System V Unix System V Mutitaking, UNIX, MPM Nothester, 20MB Unix System V Mutitaking, UNIX, MPM Nothester, 20MB Unix Syste
SynchronousNoNoOpt.: 56k bpsOpt.: 38 AK bpsAsynchronous19.2K bpsUUCP, CU19.2K bpsOpt.: 38 AK bpsSDLC, HDLCType of LAN supportedNoneNoneNoneNoneNoneRLE terminals supportedNoneNoneYesNoneRut terminals supportedNoneNoneYesNoneSerial printersAny RS-232Any RS-23230-300 (pm300-600 (pmJob Streaming tape drives300-600 (pm300-600 (pm300-600 (pm300-600 (pmJob Streaming tape drives30 (ps, 8000 bpiNoneNoneNoneCasatturi, Zarridge tape drives30 (ps, 8000 bpiNoneNoneNoneOperating systemVCR: 100MBVCR: 100MBVCR: 100MBNoneNoneOperating systemUnix System VNoneNoneNoneAssemblarComplarsCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CMoneOther parkagesUnix System VNoneNoneNoneNoneNoneOperating systemUnix System VNoneNoneNoneSold through dealersSold through dealersNoneCustanses, scientific, educationGutaises, scientific, educationNoneSold through dealersSold through dealersAssemblarCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CSold through dealersNoneOperating systemUnix System VNone <t< td=""><td>No No Opt. S5K bps Opt. Dot. S5K bps. Dot. State At the state of the s</td></t<>	No No Opt. S5K bps Opt. Dot. S5K bps. Dot. State At the state of the s
Asymchronous Protocols supported19.2K bps UCP, CU19.2K bps UCP, CUSid: 19.2K bps TY, 3780, SNA, SDLC, 3270, MAR, EthernetOp:: 39.4K bps SDLC, HDLCType of LAN supported RUE terminals emulated IBM 3270 emulationNone NoneNone NoneSDLC, HDLCNone PERIPHERAL EQUIPMENT Disks supportedNone SOL-600 IpmNone SOL-600 IpmNone NoneSol-300 cps 30-300 cpsNone NoneSerial printers Letter quality printers a docs 400cpsAny RS-232 40cpsAny RS-232 40cpsAny RS-232 40cpsAny RS-232 30-300 cpsSol-600 lpm 300 lpmSol-600 lpm 300 lpmSoreaming there is casteric/catridge tape drives Other peripherals supported100 ips, 1600/3200 bpi 30 lps, 8000 bpiSol-600 lpm 300 lpmSol-100 lpm 300 lpmNone NoneSOFTWARE Assembler CompletesAssembler Cobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CSol-600 lpm NoneSole-600 lpm None <td>19.2K bps 19.2K bps 19.2K bps 07::38.4K bps UUCP, CU UUCP, CU 3270, MAP, Ethernet SDC, HDLC add None None None None NO None None None None NT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB, 20MB, 40MI Soc-600 lpm 300-600 lpm 300-300 opt 300 lpm None as Any RS-232 Any RS-232 30-300 opt 300-300 lpm None s 300-600 lpm 300-600 lpm 300 lpm. None None None es 100 ips, 1600/3200 bpi 300-900 lpm 300 lpm. None None None y CR: 100MB VCR: 100MB VCR: 100MB VCR: 100MB Disk.8timus None unix System V Unix System V No Multitasting, UNIX, MP Parially or fully nt system Unify Unify Business, scientific, education Education Scientific, education Wirde variety of industry applications sold through dealers Contact vendor Difee automation, accounting, industrial, parially or fully JITY No Every finate, 2 asrial Cortact vendor-opt. Scientific, education Stat through dealers S</td>	19.2K bps 19.2K bps 19.2K bps 07::38.4K bps UUCP, CU UUCP, CU 3270, MAP, Ethernet SDC, HDLC add None None None None NO None None None None NT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB, 20MB, 40MI Soc-600 lpm 300-600 lpm 300-300 opt 300 lpm None as Any RS-232 Any RS-232 30-300 opt 300-300 lpm None s 300-600 lpm 300-600 lpm 300 lpm. None None None es 100 ips, 1600/3200 bpi 300-900 lpm 300 lpm. None None None y CR: 100MB VCR: 100MB VCR: 100MB VCR: 100MB Disk.8timus None unix System V Unix System V No Multitasting, UNIX, MP Parially or fully nt system Unify Unify Business, scientific, education Education Scientific, education Wirde variety of industry applications sold through dealers Contact vendor Difee automation, accounting, industrial, parially or fully JITY No Every finate, 2 asrial Cortact vendor-opt. Scientific, education Stat through dealers S
Profecois supportedUUCP, CUUUCP, CUTTY, 270, SNA, SDLC, 3270, MAP, Ethermal Ethermals semulated NoneSDLC, HDLCType of LAN supportedNoneNoneNoneNoneREL termals semulated IBM 3270 emulationNoneNoneNoneNoneSarai printers Letter quality printers Line printers Cassette/carting tage drives Streaming tape drives Cassette/carting tage tage drives AssemblerAny RS-232 40Cps 300-600 lpmMoneFixed: 10MB, 140MB Remov.: 50MB-50MB 300-600 lpmFixed: 10MB, 140MB Remov.: 50MB-50MB 300-600 lpmFixed: 10MB, 140MB Remov.: 50MB-50MB 300-600 lpmSore Tube drives Streaming tape drives Cassette/cartingtig tape drives Cassette/cartingtig tape drives Cassette/cartingtig tape drives Cossette/cartingtig tape drives Other perpherals supportedNoneFixed: 10MB, 20MB NoneSOFTWARE Assembler CompilersAssembler Cabol, SMC Basic, CAssembler Cabol, SMC Basic, CMacro C, Cobol, Basic, Principal industry application Business, scientific, educationMacro VCR: 100MBAssembler VCR: 100MBAssembler VCR: 100MBAssembler VCR: 100MBMacro Varia's applications acounting, industrial, englementing, industrial, ortally or fully NoneStreaming, industrial, englementing, industrial, englementing, industrial, englementing, industrial, ortally or fully NoneMacro C, Cobol, Basic, Prices quoted are suggested retailMacro C, Cobol, Basic, Prices quoted are suggested retailCPU, IMB memory, 200MB distriating, industrial, englementing, industrial, englementing, industrial, ortal de	UUCP, CU UUCP, CU TTY, 3780, SNA, SDLC, 3270, MAP, Ethernet Enhernet Enhernet None SDLC, HDLC SDLC, HDLC red None None None None NO None 2780/3780 None NT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB-500MB a Any RS-232 Any RS-232 Aopps 30-150 cps None 300-600 lpm 300-600 lpm 300-600 lpm 300-100 ppi None s 300 jps, 8000 bpi None None None yorted VCR: 100MB VCR: 100MB Fixed: 10MB-140MB None vCR: 100MB VCR: 100MB 100 ips, 1600 lpi None None yorted VCR: 100MB VCR: 100MB Fixed: 10MB-140MB None vCR: 100MB VCR: 100MB VCR: 100MB Fixed: 10MB-140MB None vCR: 100MB VCR: 100MB VCR: 100MB Fixed: 10MB-140MB None vCR: 100MB VCR: 100MB Fixed: 10MB-140MB None None vCR: 100MB VCR: 100MB Fixed: 10MB-140MB None None vCR: 100MB VCR: 100MB Fixed: 10MB-140MB None None vrickstarion Maron Cobol, S
Inductors supportedDoor, ForDoor, ForDoor	LiedNoneNone12270, MJC, Briker, DetC., BLCC, BL
Type of LAN supported RJE terminals emulated IBM 3270 emulsion PERIPHERAL EQUIPMENT Disks supportedNone NoneSupported NoneNone Ethernet NoneNone 27807 YesNone NoneSerial printers Letter quality printers Letter quality printers atter printers Other peripheral supportedAny RS-232 40cpaAny RS	ted None None SJ. J. M. W.F., Ettlerinet None ed None None 2780/3780 None INT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB-140MB Sa Any R5-232 Any R5-232 Any R5-232 So-300 Ops So-300 Ops a00-500 lpm 300-500 lpm 300-500 lpm So-300 lpm None es 100 ips, 1600/3200 bpi 30 ips, 6000 bpi None None yCR: 100MB VCR: 100MB VCR: 100MB Floppy disk: IMB, laser None ported VCR: 100MB Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Assembler Cobol, SMC Basic, C Assembler Cobol, SMC Basic, C Cobol, SMC Basic, C Assembler Marco Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Assembler unix System V No Noify Business, scientific, education Business, cAD/CAM Vintry Placations Industry applications Industry applications Sold through dealers sold through dealers sold through dealers Sold through dealers Sold through dealers sold through dealers streaming tape, 2 serial ports–33.530 CPU, 1MB memory, 400M
I ype or LAN supported REL terminals supportedNone NoneNone NoneNone Z780/3780None Z780/3780None NoneREL terminals supportedNone NoneNoneNoneNoneNoneBasiz 270 emulation Disks supportedAny RS-232 40CpsAny RS-232 30-300 cps30-150 cps 30-150 cpsNoneSerial printers Line printers Line printersAny RS-232 300-600 lpm30-150 cps 300-600 lpm30-150 cps 300-1600 bpiNoneStreaming tape drives Cossette/cartidge tape drives Cossette/cartidge tape drives Cossette/cartidge tape drives Cossette/cartidge tape drives CompilersAssembler Cobol, SMC Basic, CNone NoneNone NoneOperating system Principal industry application Basic system configuration and priceUnix System V Wide variety of industry applicationUnix System V NoneUnix System V NoneMultitasking, UNIX, MPM Varies Varies ustantion, accounting, industrial, engineering/graphicsRealitime, Process C Partially or fully NoneMo. meintenance of basic configuration Date of first delivery Number installed to date COMMENTSContact vendor 1984Contact vendor 1984Contact vendor 1984Contact vendor 1984Oprint. NoneOprint. None Prices quoted are prices quoted are streaming tape, 2 serial porta—\$33,530Oprint. 100 kpcOprint. 100 kpc prices quoted are prices quoted are pric	ted None Ethernet None ed None 2780/3780 None NO No Yes No NT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB-140MB any RS-232 Any RS-232 30-300 cps None any RS-232 Any RS-232 30-300 cps None a00-600 lpm 300-600 lpm 300-600 lpm 300 lpm s 30 ips, 8000 bpi 100 ips, 1600/3200 bpi 30-150 cps None s 30 ips, 8000 bpi 100 ips, 1600/3200 bpi 30-150 cps None s Assembler Cobol, SMC Basic, C Cobol, SMC Basic, C Pascal, Fortran, APL Partially or fully nt system Unix System V Unix System V Multitasking, UNIX, MPM Varies Jication Business, scientific, education Business, scientific, education Business, scientific, education CPU, 1MB menory, 20MB JTY Chuistry applications sold through dealers Cold through dealers Cold Busic, CAD/CAM Contract vendor cont. Jate Tage Contact vendor Contact vendor Contact vendor Contact vendor-opt. Jate Tage Prices quoted are suggested retail Steeming tage, 2 seria
R.E terminals emulated None None 278/RHERAL EQUIPMENT None None None Disks supported Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Remov: 50MB-500MB Fixed: 10MB, 20MB Serial printers Any RS-232 Any RS-232 30.300 cps 30.300 cps None Letter quality printers 300-600 lpm 300-600 lpm 300-900 lpm 300 lpm Streaming tape drives 30 ips, 1600/3200 bpi 300 ips, 1600/3200 bpi 300 ips Streaming tape drives 30 ips, 8000 bpi 30 ips, 1600/3200 bpi 300 lpm Streaming tape drives 30 ips, 8000 bpi None None Other parpherals supported VCR: 100MB VCR: 100MB Fixed: 100MB None Streaming tape drives Assembler Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Operating system Unix System V No None Varias ASM86 Other packages Unix System V No None None Varias, call HV Note streaming tape, 2 serial printer, call HV Wide variety of industry application sold through dealers sold through dealeres	ed None 2780/3780 None NO No Yes No NT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB-140MB Any R5-232 Any R5-232 Any R5-232 30-300 Cps None 300-600 lpm 300-600 lpm 300-100 lpm 300 lpm 300 lpm es 100 ips, 1600/3200 bpi 30 ips, 6000 bpi 100 ips, 1600/3200 bpi None jpe drives None VCR: 100MB VCR: 100MB None VCR: 100MB VCR: 100MB VCR: 100MB Floppy disk: 1MB, laser printer, OCR, Scanner Diskette: 300KB nented in firmware No Unify Business, scientific, education Macro C. Cobol, SMC Basic, C ASM86 Unify Business, scientific, education Business, CAD/CAM Office automation, Industrial, engineering/graphics ASM86 JTY rate CPU, 1MB memory, 70MB Winchester, 20MB CPU, 1MB memory, 400MB CPU, 1MB Memory, 800M basic configuration Contact vendor 1984 Triple CPUs, I/O nest, 1984 jate Triple CPUs, I/O nest, 1985 Triple CPUs, I/O nest, 1984 jate Triple CPUs, I/O nest, 1985 Triple CPUs, I/O nest, 1984 jate Triple CPUs, I/O nest, 1984 Tri
IBM 3270 emulation PRINFLACL CUMPNENT No No Yes No Disks supported Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Remov. 50MB-500MB Fixed: 10MB, 20MB Serial printers Any RS-232 30-300 cps 30-300 cps No Litter quility printers 40 cps 300-600 lpm 300-900 lpm 300-100 lpm Streaming tape drives 100 lps, 1600/3200 bpi 300-900 lpm 300-900 lpm 300-100 lpm Cassette/carring tape drives 30 lps, 8000 bpi None None None Other perpherals supported VCR: 100MB VCR: 100MB Filed: 10MB, 180MB None SOFTWARE Assembler Cobol, SMC Basic, C Macro ASM86 Fortran 77, PLM 86 Assembler Cobol, SMC Basic, C Unix System V Unix System V Mutitasking, UNIX, MPM Reatime, Process CAP/CAM Reatime, Process CAP/CAM Operating system Unify Business, scientific, education Unix System V Mutitasking, UNIX, MPM Reatime, Process, CAP/CAM Reatime, Process, CAP/CAM Noe Other packages CPU, 1MB m	No No Yes No INT Winchester: 70MB Winchester: 400MB Fixed: 10MB-140MB Fixed: 10MB, 20MB, 40MB Any R5-232 Any R5-232 30-300 cps 30-300 cps 150 cps 300-600 lpm 300-500 lpm 30-150 cps 30-150 cps 300-900 lpm s 100 ips, 1600/3200 bpi 30 ips, 6000 pin 300-900 lpm 300-900 lpm 300-900 lpm pe drives None None 100MB-180MB None None None VCR: 100MB VCR: 100MB VCR: 100MB Forpy disk: TMB, laser None Ported VCR: 100MB VCR: 100MB VCR: 100MB Forpy disk: TMB, laser None None VCR: 100MB VCR: 100MB VCR: 100MB ASM86 Metrodition Assembler Cobol, SMC Basic, C C Cobol, fasic, Parcell, Pa
PERIPHERAL EQUIPMENT Winchester: 70MB Fixed: 10MB.140MB Fixed: 10MB.20MB Disks supported Winchester: 70MB Winchester: 400MB Fixed: 10MB.140MB Fixed: 10MB.20MB Strain printers Any R5-232 Any R5-232 Any R5-232 30-300 ops Biss supported 150 ops Letter quality printers 300-600 ipm 300-600 ipm 300-900 jpm 300 ipm 300 ipm Streaming tipe drives 100 ips, 1600/3200 bpi 300 ips, 8000 bpi None None None SofFWARE Assembler Cobol, SMC Basic, C Assembler Cobol, SMC Basic, C Macro ASM86 Operating system Unix System V Unix System V Multitasking, UNIX, MPM Reatime, Process C Partially or fully None Database management system Unify Business, scientific, education Sold through dealers Sold through deal	INT Winchester: 70MB Winchester: 400MB Fixed: 10MB:140MB Fixed: 10MB:140MB any R5-232 40cps 30-300 dps 30-300 dps 300-300 dps 300-300 dps es 300-600 lpm 300-600 lpm 300-600 lpm 300-900 lpm 300 lpm 300-900 lpm 300 lpm per drives None 100 lps, 1600/3200 bpi 30 lps, 8000 bpi None None None None ported VCR: 100MB VCR: 100MB VCR: 100MB VCR: 100MB None None None unix System V Nonfy Assembler Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Assembler Assembler Assembler Assembler Assembler Assembler Assembler Assembler Cobol, SMC Basic, C Cobol, SMC Basic, C Cobol, SMC Basic, C Assembler Assembler Assembler Assembler Assembler Assembler Assembler Assembler Cobol, SMC Basic, C Assembler Cobol, SMC Basic, C Assembler Assemb
Disks supportedWinchester: 70MBWinchester: 400MBFixed: 10MB: 140MBFixed: 10MB: 20MBSerial printersAny RS-232Any RS-23230:300 cps30:300 cps150 cps150 cpsLetter quality printers300-800 lpm30:500 cps30:150 cps30:0100 lpiNone100 lps, 1600/3200 bpiStreaming tape drives30 ps, 8000 bpiNone100 lps, 1600/3200 bpi30:ps, 8000 bpiNoneNoneNoneCassette/cartridge tape drives0 ps, 8000 bpiNoneNoneNoneNoneNoneNoneSOFTWAREAssemblerCabol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CASMB6CompilersUnix System VUnix System VNoneNoneMatritasking, UNX, MPMNoneOperating systemUnifyBusiness, scientific, educationBusiness, scientific, education sold through dealersUnifyNoneProcess, critical HV, control, safety shutNoneRICING & AVAILABILITYBasic system configuration and priceCPU, 11MB memory, 70MBCPU, 11MB memory, 400MBCPU, 11MB Memory, 80Mdisk drive, 11MB floppy disk streaming tape, 2 serial ports—S33,530Contact vendor-opt, 1984Tripic CPUs, I/O netMo. maintenance of basic configuration and pricePrices quoted are suggested retailContact vendor-opt, 1984Tripic CPUs, I/O netNumber installed to datePrices quoted are suggested retailPrices quoted are suggested retailContact vendor-opt, 1984Tripic CPUs, I/O netNote interverking and no neine networking o	Winchester: 70MBWinchester: 400MBFixed: 10MB 140MB Remov: 50MB-50MB-50MB 30-500 cpsFixed: 10MB, 20MB 30-500 cpsaAny RS-232Any RS-23230-150 cps30-150 cps300-600 lpm300-600 lpm300-900 lpm300-1600 cpsNonea30.500 dpi300-150 cps300-1600 lpmNonea30.500 dpi30 ips, 6000 bpi30 ips, 5000 bpi30 ips, 5000 bpiNoneyoredVCR: 100MBVCR: 100MBVCR: 100MBNoneVCR: 100MBVCR: 100MBVCR: 100MBNoneNoneunix System VNoneVCR: 100MBNoneNoneyicationUnix System VNoMultitasking, UNIX, MPM VariesRealtime, Process Ctrl. Parcially or fullynication and priceCPU, 1MB memory, 70MB vinchester, 20MBCPU, 1MB memory, 400MB vinchester, 20MBCPU, 1MB memory, 80M disk drively dealersCPU, 1MB memory, 400MB vinchester, 20MBCPU, 1MB memory, 80M disk drive, 1MB floppy drive, printer/ terminal ports—\$33,530Contact vendor 1984Triple CPUs, I/O nest, 1984atePrices quoted are suggested retailContact vendor stado, Tri-Card soft- ware—\$50,000Contact vendor- oprices quoted are suggested retailContact vendor- 1984Oprice oprices quoted are suggested retailContact vendor- oprices quoted are
Serial printers Letter quality printers Letter quality printers Letter quality printers Letter quality printers Letter quality printers Letter quality printers Sore-Root-neet tape drives Streaming tape drives Other perpherals supportedAny RS-232 40cps 40cps 100 ips. 1600/3200 bpi 300-600 lpm 100 ips. 1600/3200 bpi NoneRemox: 50MB-500MB 30-150 cps None MoneNone 300-900 lpm 300-100 lpm NoneStreaming tape drives Cassentle/cartridge tape drives Other perpherals supported100 ips. 1600/3200 bpi None VCR: 100MBNone NoneNoneNoneSOFTWARE Assembler CompilersAssembler Cobol, SMC Basic, CAssembler Cobol, SMC Basic, CAssembler Cobol, SMC Basic, CAssembler Cobol, SMC Basic, CAssembler Cobol, SMC Basic, CAssembler Printer, OCR, ScamerOperating system Principal industry application Principal industry application Principal industry application Principal industry application Principal industry application Principal industry application Principal industry application Prices system configuration and priceUnix System V No Unit System V Unit System V No Database management system Unit System V No Database management system Other packagesUnix System V No UnityUnit//INCRS None Prices Quoted are suggested retailMultitasking, UNIX, MPM No No No No No Database management system UnityRealtime, recess C Prices quoted are suggested retailCPU, 1MB memory, 400MB Winchester, 20MB Winchester, 20MB Winchester, 20MB Winchester, 20MB Winchester, 20MB Winchester, 20MBCPU, 1MB memory, 80M disk drive, 1MB floppy disk d	Any RS-232 Any RS-232 Any RS-232 Any RS-232 Any RS-232 Accps 30-150 cps 30-150 cps 30-15
Sarial printersAny RS-232Any RS-23230-300 cps150 cpsLiter quality printers40cps30-600 lpm300-900 lpm300 lpmStreaming tape drives100 lps, 1600/3200 bpi300 lps, 1600/3200 bpi300 lps, 1600/3200 bpi300 lpmStreaming tape drives100 lps, 1600/3200 bpi300 lps, 1600/3200 bpiNoneCassette/carridge tape drivesNoneVCR: 100MBVCR: 100MBNoneOther perpherals supportedVCR: 100MBVCR: 100MBNoneDisk etcl.SOFTWAREAssemblerCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, CCobol, SMC Basic, COperating systemUnix System VNoWaires S, cannerMacroForma, APLOperating systemUnirk System VNoWaires S, cannerPartially or fullyDabases management systemUnirfyUnix System VNoWaires S, cannerPrincipal industry applicationBusiness, scientfile, educationUnirfy waires, cannerNorePrincipal industry applications sold through dealerscold through dealerscold through dealersOffice automation, Modus protoco, DRelCNG & AVAILABILITYBasic system configuration and priceContact vendorContact vendorContact vendorData of first deliveryContact vendor1984Contact vendorSis doit drive, 1MB floppydisk drive, 1MB floppyNumber installed to dateContact vendor1984-Sis ocoOpt.DotMMEINTSContact vendor1984-Sis ocid	Any RS-232 Any RS-232 30-300 cps 150 cps 300-600 lpm 300-600 lpm 300-900 lpm 300 lpm 30 jps, 8000 bpi 100 ips, 1600/3200 bpi 30 ips, 8000 bpi None 30 jpr drives None None None VCR: 100MB VCR: 100MB VCR: 100MB None VCR: 100MB VCR: 100MB VCR: 100MB None Unix System V Assembler Assembler Cobol, SMC Basic, C Unix System V Unix System V Unix System V Multitasking, UNIX, MPM Note automation, addition process, scientific, education Business, scientific, education Business, scientific, education JITY CPU, 1MB memory, 70MB Winchester, 20MB CPU, 1MB memory, 400ME Mate CPU, 1MB memory, 20MB Contact vendor Contact vendor 1984 1984 Contact vendor 1984 ate — Prices quoted are suggested retail Contact vendor 1984 Prices quoted are suggested retail Contact vendor or trice station on trice or rRJE workstations.
Letter quality printers Line printers40cps 30-600 lpm30-150 cps 300-600 lpmNoneReel-or-eel tape drives Streaming tape drives Cassette/cartidge tape drives Other perpherals supported100 ips, 1600/3200 bpi 30 ips, 8000 bpi100 ips, 1800/3200 bpi 30 ips, 8000 bpi300-600 lpm 300-900 lpm300-for 300-600 lpmOpter perpherals supportedVCR: 100MBNone VCR: 100MBNone VCR: 100MBNone 10MB-180MB VCR: 100MBNone NoneSOFTWARE Assembler CompilersAssembler Cabol, SMC Basic, CAssembler Cobol, SMC Basic, CMacro Cobol, SMC Basic, CASM86 Parcal, Fortran, APLOperating system Ditabase management system Vinic yatus Principal industry applicationUnix System V Nonf Business, scientific, educationUnix System V No None None NoneUnit//NGRS None, Process CReatime, Process C Parcal, Fortran, APLOther packagesWide variety of industry applications PRICING & AVAILABILITYUNE system Proces, 200HB Streaming tape, 2 serial ports—\$33,530CPU, 1MB memory, 400MB Vinchester, 20MB Streaming tape, 2 serial ports—\$33,530CPU, 1MB memory, 400MB Vinchester, 20MB Streaming tape, 2 serial ports—\$33,530Contact vendor 1984Opt. None Prices quoted are suggested retailOpt. None Contact vendor 1984Contact vendor 1984Opt. None Prices quoted are suggested retailContact vendor 1984Opt. None Prices quoted are suggested retailOpt. None Prices quoted are suggested retailContact vendor 1984Opt. None Prices quoted are <b< td=""><td>s 40cps 300-600 lpm 300-600 lpm 300-600 lpm 300 lpm 300 lpm res 30 lps, 8000 bpi 300 lps, 8000 bpi 300 lpm 300 lpm 300 lpm s 30 lps, 8000 bpi 300 lpm 300 lpm 300 lpm 300 lpm ported None None None None None ported VCR: 100MB VCR: 100MB VCR: 100MB Diskette: 300KB virtice Assembler Cobol, SMC Basic, C Assembler Cobol, SMC Basic, C Assembler unix System V Unix System V Unix System V Multitasking, UNIX, MPM Partially or fully slication Business, scientific, education Business, scientific, education Multitasking, UNIX, MPM Realtime, Process Ctrl. JITY sold through dealers sold through dealers control, safety shutdown sold through dealers cold through dealers cold through dealers control, safety shutdown streaming tape, 2 serial ports—\$33,530 Cottact vendor 1984 1983 1600. Isoo Say, 100. tate — — Prices quoted are suggested retail Cottact vendor 1983 0. tate — Prices quoted are suggested retail Cottact vendor 1983 0.</td></b<>	s 40cps 300-600 lpm 300-600 lpm 300-600 lpm 300 lpm 300 lpm res 30 lps, 8000 bpi 300 lps, 8000 bpi 300 lpm 300 lpm 300 lpm s 30 lps, 8000 bpi 300 lpm 300 lpm 300 lpm 300 lpm ported None None None None None ported VCR: 100MB VCR: 100MB VCR: 100MB Diskette: 300KB virtice Assembler Cobol, SMC Basic, C Assembler Cobol, SMC Basic, C Assembler unix System V Unix System V Unix System V Multitasking, UNIX, MPM Partially or fully slication Business, scientific, education Business, scientific, education Multitasking, UNIX, MPM Realtime, Process Ctrl. JITY sold through dealers sold through dealers control, safety shutdown sold through dealers cold through dealers cold through dealers control, safety shutdown streaming tape, 2 serial ports—\$33,530 Cottact vendor 1984 1983 1600. Isoo Say, 100. tate — — Prices quoted are suggested retail Cottact vendor 1983 0. tate — Prices quoted are suggested retail Cottact vendor 1983 0.
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MANUFACTURER AND MODEL	August Systems Inc. Series 330 TRI-DAC System	Auragen Systems Corporation 4000	Barrister Information Systems Corporation Model 150	Barrister Information Systems Corporation Model 160
WORD LENGTH	16 bits	16/32 bit	16 bits	16 bits
MAIN MEMORY	256KB-1MB	1MB-8MB	1MB-2MB	1MB-2MB
DISK STORAGE CAPACITY	Not Required (*)	160MB-2 4GB	13MB-320MB	148MB-2240MB
NO WORKSTATIONS SUPPORTED	4 or more Colorgraphic	256	24	24
PRICE RANGE	\$125,000-\$600,000	\$75,000-\$1 million	\$25,000-\$75,000	\$45,000 \$175,000
TARGET MARKET	Industrial control &	Commercial Transaction	Legal Industry	Legal Industry
CENTRAL PROCESSOR	ontiour Data Atoquisition	litoooballig		
CPU manufacturer and model	Intol 8086	Motorola 68010	Parriator 150	Parriator 160
Hardware floating point	Double	Nono	None	None
Pattory backup	Ont	Std	None	None Ort
Battery backup	Opt.		Opt.	Opt.
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds	500	220	400	400
VIAIN STORAGE	1.			
Bytes fetched per cycle	2	4	2	2
Memory access	32 bits/microsec.		16	16
Cycle/access time, nanoseconds	200		400	400
Storage protection	Opt., ECC	Std.	Std.	Std.
Increment size, bytes	256K/512K	1 MB	1024K	1024K
Cache memory, bytes	None	64KB	None	None
NPUT /OUTPUT CONTROL				
No. of I/O channels	4K Digital 12K Applog	256	24	24
Data transfer rate	FOK bytes (see	1MP/200	2 5M button (005	2 FMP (200
	JUN Dytes/sec.	HWID/Sec.	2.5W bytes/sec.	2.5IVIB/Sec.
CONNUNICATIONS		050		
Max. number of lines	40	256	8	8
Synchronous	Opt.	Opt.	Opt.; 4K bps	Opt.; 4K bps
Asynchronous	Opt. 38.4K bps/channel	Std.; 19.2K bps	Opt.: 4K bps	Opt.: 4K bps
Protocols supported	SDLC, HDLC	HDLC, SNA, X.25, 3270, UUCP	Bisync, programmable	Bisync, programmable
Type of LAN supported	None	Ethernet, SNA	Barrister/Net	Barrister/Net
RJE terminals emulated	None	2780/3780	None	None
IBM 3270 emulation	No	Yes	Programmable	Programmable
PERIPHERAL FOUIPMENT			5	-
Disks supported	Fixed: 10MB, 20MB, 40MB	Fixed: 160-880MB	Fixed/removable: 13MB-320MB	Removable: 148MB-2240M
Serial printers	150 cps	30 cps	25-200 cps	25-200 cps
Letter quality printers	None	120 cps	25-40 cps 12 ppm	25-40 cps 12 ppm
Line printere	200 lpm	120 cps	120-40 cps, 12 ppm	420 720 mm
Line printers	300 ipm	900 ipm	430-730ipm	430-730ipm
Reel-to-reel tape drives	None	None	None	None
Streaming tape drives	None	25 lps; 1600 bpi	None	None
Cassette/cartridge tape drives	None	None	None	None
Other perpherals supported	Diskette: 330KB	None	Laser printer, optical	Laser printer, optical
			character readers	character readers
SOFTWARE				
Assembler	ASM86	None	Assembler, Trial	Assembler, Trial
Compilers	Fortran 77, PLM 86	Cobol, Fortran, PL1, C, Pascal	C-Compiler	C-Compiler
Operating system	Realtime, Process Ctrl.	Unix	Barrister MBOS	Barrister MBOS
Operating sys, implemented in firmware	Partially or fully	Partially	Fully	Fully
Database management system	None	Oracle	BIMS	BIMS
Principal industry application	Process safety shutdown	Commercial transaction		Legal applications
rincipal industry application	arit HVAC w/ast-		Legar applications	Legal applications
Other neckess	Madhua national in the second	processing	Mand management	
Other packages	database, & graphics		accounting, financial	accounting, financial
	builder		modeling, info. mgmt.	modeling, info. mgmt.
PRICING & AVAILABILITY		·		
Basic system configuration and price	Triple Cpus, I/O nest,	3-68010, 1-2901, 2MB	CPU, 1024KB Memory, 13MB	CPU, 1024KB Memory,
, , ,	16 DI, 16 DO, B&W	memory, 160MB disk,	disk, workstation,	2-74MB disk, workstation
	program station, color	1 cipher tape, 8 async	modem, message printer.	modem, message printer.
	control console. Tri-Dac	lines C. Unix, screen	MBOS operating system	MBOS operating system
	software-\$125,000	manager 75 000	word processing \$33,000	word processing \$67,000
	301tware = \$123,000	manager 73,000	word processing—\$55,000	word processing-\$07,000
Mo. maintenance of basic configuration	Opt.	\$750	\$200-\$670	\$310-\$1,240
Date of first delivery	October 1984	December 1983	August 1983	August 1983
AL 1 1 1 1 1 1 1 1 1 1	15 Series 300D	700	150	140
Number installed to date	Multiple units in star	Auragen is a fault		
Number installed to date		tolorant system		
Number installed to date	network configuration		1	
Number installed to date COMMENTS	network configuration	tolerant system.		
Number installed to date COMMENTS	network configuration with multiple color graphic workstations	tolerant system.		
Number installed to date	network configuration with multiple color graphic workstations	tolerant system.		
Number installed to date	network configuration with multiple color graphic workstations (*) Disk not required			
Number installed to date	network configuration with multiple color graphic workstations (*) Disk not required for on-line control.	toreight system.		
Number installed to date	network configuration with multiple color graphic workstations (*) Disk not required for on-line control.	tolerant system.		
Number installed to date	network configuration with multiple color graphic workstations (*) Disk not required for on-line control.	toreant system.		
Number installed to date	network configuration with multiple color graphic workstations (*) Disk not required for on-line control.			

MANUFACTURER AND MODEL	Barrister Information Systems Corporation Model 140	Barrister Information Systems Corporation Model 145	BTI Computer Systems BTI 6000	Burroughs Corp. B 90 Series
WORD LENGTH	16 bits	16 bits	16 bits	8 bits
	1MB-2MB	2048KB	128K-1MB	128KB-1 5MB
DISK STOPAGE CAPACITY	148MB-2240MB	148MB-2240MB	up to 400MP	19MB-221MD
DISK STURAGE CAPACITY	1401010-22401010	1481018-22401018		101010-2311010
NO. WORKSTATIONS SUPPORTED	32	32	32	2-12
PRICE RANGE	-	—	From \$40,950	From \$14,000
TARGET MARKET	Legal Industry	Legal Industry	Business	Business/Commercial
CENTRAL PROCESSOR				
CPLL manufacturer and model	Data General Eclinse	Data Gen, Super Eclipse	Proprietary	Proprietany
Hardware fleating point	Neno	None	No	No
Hardware libating point	None	None		INO
Battery backup	Std.	Std.	Std.	NO
Real-time clock or timer	Std.	Std.	Std.	Opt.
CPU cycle time, nanoseconds	400	150	<u> </u>	
MAIN STORAGE				
Bytes fetched per cycle	2	2		1
Memory access	16	16	. <u> </u>	
Cycle/access time, nanoseconds	400	225		250
Storogo protoction	C+d	Std	None	2500 Std
Storage protection				
Increment size, bytes	1024K	2048K	Not applicable	128K/256K/512K
Cache memory, bytes	None	None	None	None
NPUT/OUTPUT CONTROL				1
No. of I/O channels	32	32	5	6-11
Data transfor rate	2 5MB /sec	2 2MB/sec	<u> </u>	
	2.5IVID/Sec.	Z.ZIVID/Sec.	—	I—
COMMUNICATIONS				
Max. number of lines	8	8	32	2-5
Synchronous	Opt.; 4K bps	Opt.; 4K bos	No	Opt.; 19.2K bos
Asynchronous	Ont 4K bos	Opt 4K bps	9 6K bps	Ont : 38 4K hos
Protocolo summented	Biauma programmable	Distance programmable	2700/2700	1001., 50.4K bps
Frotocols supported	bisync, programmable	bisylic, programmable	2/00/3/00	2/80/3/80, BDLC, SNA,
				X.25, 3270, RJE
Type of LAN supported	Barrister/Net	Barrister/Net	None	None
RJE terminals emulated	None	None	2780/3780	2780/3780
IBM 3270 emulation	Programmable	Programmable	No	Ves
	riogrammabio	riogrammabio		103
PERIFICIAL EQUIPIVIEN				
Disks supported	Fixed/Removable:	Removable: 148MB-2240MB	Fixed: 2MB-54MB	Cartridge: 4.6MB, 9.2MB
	13MB-320MB		Pack: 80MB-252MB	Fixed: 18MB-37MB
Serial printers	25-200 cps	25-200 cps	20-120cps	180-230 cps
Letter quality printers	25-40 cps. 12 ppm	25-40 cps, 12 ppm	None	None
Line printers	430-730ipm	430-730lpm	300 lpm	85-600 lpm
	1430-730ipm	430-730ipm	Soo ipni	
Reel-to-reel tape drives	None	None	45 ips	None
Streaming tape drives	None	None	None	25/100 ips
Cassette/cartridge tape drives	None	None	10MB	10 ips cassette
Other perpherals supported	Laser printer optical	laser printer optical		Super mini disk: 6MB
other perpheruis supported	choractor rondoro	abargator roadara		Minchester O.C. 14 4MP
POETIA/A DE				Winchester. 9.0, 14.4WB
SOFTWARE				
Assembler	Assembler, Trial	Assembler, Trial	No	
Compilers	C-Compiler	C-Compiler	Basic	Cobol, RPG, MPL II, NDL
Operating system	Barrister MBOS	Barrister MBOS	Multitasking	Bealtime multitacking
Operating system			Dentially	Indatine, multitasking
operating sys. implemented in firmware	ruiy		rarually	ruiy
Database management system	BIMS	BIMS		None
Principal industry application	Legal applications	Legal applications	Accounting	General business
Other packages	Word processing, legal,	VVord processing, legal,		Mfg., hospital, educ.,
	accounting, financial	accounting, financial		word management,
	modeling, info. mamt.	modeling, info. mamt.		Reporter, Domain
PRICING & AVAILABILITY		U		
Pacie system configuration and price	CPUL 1024KB Momory	CPUL 2019KP Mamon	CPLL tang contrides	P OG with E12KP manage
basic system configuration and price	0 74AAD diale weekster	2 74NAD diale methods		B 90 with ST2KB melliory,
	2-74WB disk, workstation	2-74MB disk, workstation	2/MB disk—\$40,950	40MB fixed disk, tape
	modem, message printer,	modem, message printer,		streamer, and controls—
	MBOS operating system,	MBOS operating system,		\$24,300
	word processing-\$106 000	word processing-\$142.000		1
Mo maintenance of basis configuration	\$200-\$1 200	\$200-\$1 E00	\$270 plus porisheral-	
wo. maintenance of basic configuration	φ200-Φ1,200	⊅∠∪∪-⊅ I,5UU	⇒∠/O plus peripherals	
Date of first delivery	I—	I—	19/8	December 1979
Number installed to date		1	3500	
COMMENTS				B 90 Series consists of
·······	1			5 models: B 91 B 92
	1			в 93, в 95 and в 96.
		1		
		1		1
	1	J		

MANUFACTURER AND MODEL	Burroughs Corp. B 900 Series	Burroughs Corp. B 1900 Series	Cado System Corp. TIGER ATS 32	Cado System Corp. TIGER ATS 64
WORD LENGTH	8 bits	16 bits	16 bits	16 bits
MAIN MEMORY	608KB-3 3MB	131KB-2MB	256KB-1 1MB	256KB-1 1MB
DISK STORAGE CAPACITY	37MB-1.7GB	65MB-8GB	15MB-144MB	30MB-568MB
NO. WORKSTATIONS SUPPORTED	4-36	4-60	32	64
PRICE RANGE	From \$23,000	From \$62,000	\$24,000-\$150,000	\$31,400-\$300,000
TARGET MARKET	Business/Commercial	Business/Commercial	Business/Professions	Business, Professions
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Intel 8086, 8089	Intel 8086, 8089
Hardware floating point	No	No	None	None
Battery backup	No	No	None	None
Real-time clock or timer	Std.	Opt.	Std.	Std.
CPU cycle time, nanoseconds		167/250	500	500
MAIN STORAGE				
Bytes fetched per cycle	l		2	2
Memory access		_		
Cycle/access time, nanoseconds	210	300-500	625	625
Storage protection	Std.	Std.	None	None
Increment size, bytes	128K	131K/262K/524K/1M	128K	128K
Cache memory bytes	None	8K-16K	None	None
No. of I/O channels		15	32	64
Data transfer rate			5M bits/sec	7 7M bits/sec
COMMUNICATIONS]]
Max number of lines	4-18	8-32	4	8
Synchronous	Ont - 19 2K bos	Ont : 19 2K hps	Std · 19 2K bos	Std - 19 2K bos
Asynchronous	Opt : 29 4K bps	Opt : EOK bas	Std., 19.2K bps	Std., 19.2K bps
Asynchronous Bratasala sumported	2790/2790 CNA DDLC	10pt.; 50K bps	1510.; 19.2K Dps	Std.; 19.2K bps
Protocols supported	2780/3780, SNA, BDLC,	2780/3780, X.25, BDLC,	1BIVI 3741, 2770, 2780,	(IBIVI 3741, 2770, 2780,
The state of the second st	SNA, X.25, 3270, BNA	BNA, SNA, 3270	3780, 850, 114	3780, BSC, TTY
Type of LAN supported	None	None	None	None
RJE terminals emulated	2/80/3/80	2780/3780	IBM 3741,2770,2780,3780	IBM 3741,2770,2780,3780
IBM 3270 emulation	Yes	Yes	NO	No
PERIPHERAL EQUIPMENT				
Disks supported	Fixed: 18MB-77MB	Pack: 65MB, 130MB	Micro-Winchester: 15MB,	Winchester: 30MB, 60MB
	Pack: 65MB, 130MB	Fixed: 402MB-1608MB	36MB	or 143MB
Serial printers	180-230 cps	None	100-400 cps	100-400 cps
Letter quality printers	None	None	20/35/55 cps	20/35/55 cps
Line printers	160-1250 lpm	270-2000 lpm	300/600 lpm	300-600 lpm
Reel-to-reel tape drives	None	50 ips; 1600 bpi	None	None
Streaming tape drives	25/100 ips	25/100 ips	90ips; 45MB	90 ips; 45MB
Cassette/cartridge tape drives	10 ips cassette	10 ips cassette	None	None
Other perpherals supported	Cartridge: 4.6-9.2MB,	Card equipment	Diskette: 1.2MB; OCR	Diskette: 1.2MB, OCR
	Mini disk, card readers		reader	reader
SOFTWARE				
Assembler	—		None	None
Compilers	Cobol, RPG, NDL, MPL II	Cobol, Fortran, Basic, RPG, NDL, Pascal	CADOL III (Basic)	CADOL III (Basic)
Operating system	Bealtime multitasking	Realtime multitasking	Realtime multitasking	Realtime: multitasking
Operating system	Fully	Fully	Resides in ROM	Resides in POM
Database management system	Nope		hesides in how	hesides in hoivi
Principal industry application	General business	Business	Business	Business
Trancipal industry application		Dusitiess	Dusiliess	business
Other packages	Mfg., hospital, educ.,	Mfg., banking, educ.	Word/data processing:	Word/data processing:
	word Mgmt, Reporter.	distribution	message proc. accounting	message proc. accounting
	Domain		forecasting/modeling	forecasting/modeling
PRICING & AVAILABILITY		1	,	g, modoling
Basic system configuration and price	B930 with 4 processors.	B1990-SP with 512KB	256KB memory 1 trans	256KB memory 1 trans
Jeene of the second galaxies and price	two 256KB & two 64KB	memory 4 comm inter-	processor 1 intranet	processor 1 Intrapet
	memory modules data	faces Maintenace Access	processor 1 control	processor 1 control
	comm I/O extender tane	Processor and ET1100	biprocessor 15MB disk	biprocessor 30MB disk
	streamer 80MB fixed	workstation \$59,300	7 keyboard (CRTs 1 dual	7 kovboard/CPTs 1 dual
	disk-35 400		mode printer\$27.260	mode printer\$44.760
Mo. maintenance of basic configuration	-	1	1.2% of purchase price	1.2% of purchase price
Date of first delivery	August 1980	1980	October 1983	3/83
Number installed to date	<u> </u>		—-	500
COMMENTS	The B 900 Series	6 models: B 1905, B 1915	Utilizes multiple,	Utilizes multiple,
	consists of 2 models:	B 1955, B 1985, B 1990-	interactive processors	interactive processors
	B920, B930.	SP, B 1990-DP.	in a tri-level	in a tri-level
		1	architecture. Capacity	architecture.
	1	1	can be added in 8-port	Capacity can be added
			increments by modular	in 8-port increments by
	1		addition of	modular addition of
				•
			microprocessor and	microprocessor and
			microprocessor and memory cards in	microprocessor and memory cards in

WORD LENGTH MAIN MEMORY DISK STORAGE CAPACITY NO. WORKSTATIONS SUPPORTED PRICE RANGE TARGET MARKET CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	8, 16 bits 128KB-512KB 64MB-288MB 20/8 \$28,308-\$32,475 Centurion CPU6	8, 16 bits 512KB-16MB 35MB-2GB 4-30 — Business	16 bits 512KB-16MB 70MB-210MB 16 Business	16 bits 256KB-4MB Up to 140MB 10 \$35,000-\$40,000
MAIN MEMORY DISK STORAGE CAPACITY NO. WORKSTATIONS SUPPORTED PRICE RANGE TARGET MARKET CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	C, 128KB-512KB 64MB-288MB 20/8 \$28,308-\$32,475 Centurion CPU6	512KB-16MB 35MB-2GB 4-30 — Business	5 12KB-16MB 70MB-210MB 16 Business	256KB-4MB Up to 140MB 10 \$35,000-\$40,000
DISK STORAGE CAPACITY NO. WORKSTATIONS SUPPORTED PRICE RANGE TARGET MARKET CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	64MB-288MB 20/8 \$28,308-\$32,475 Centurion CPU6	35MB-2GB 4-30 — Business	70MB-210MB 16 Business	Up to 140MB 10 \$35,000-\$40,000
NO. WORKSTATIONS SUPPORTED PRICE RANGE TARGET MARKET CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	20/8 \$28,308-\$32,475 Centurion CPU6	4-30 — Business	16 — Business	10 \$35,000-\$40,000
NO. WORKSTATIONS SUPPORTED PRICE RANGE TARGET MARKET CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	20/8 \$28,308-\$32,475 Centurion CPU6	4-30 — Business	Business	10 \$35,000-\$40,000
PRICE RANGE TARGET MARKET CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	\$28,308-\$32,475 Centurion CPU6	 Business	 Business	\$35,000-\$40,000
TARGET MARKET CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	Centurion CPU6	Business	Business	
CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	Centurion CPU6			Technical, business
CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer	Centurion CPU6			
Hardware floating point Battery backup Real-time clock or timer		Centurion CPU7	78003	DEC 1 SI 11/73
Battery backup Real-time clock or timer	l Nia	No	No	Deuble
Battery backup Real-time clock or timer	NO			Double
Real-time clock or timer	None	None	Opt.	Opt.
	Std.	Std.	Std.	Opt.
CPU cycle time, nanoseconds	200	200		None
MAIN STORAGE				
Bytes fetched per cycle	1	1	2	4
Memory access		9	1 <u></u>	1 2MB
	800	500/220	500/250	1.200
Cycle/access time, nanoseconds	800	500/220	1500/250	400/240
Storage protection	Std.	None	None	Std.
Increment size, bytes	128K	512K	512K	256K
Cache memory, bytes	None	None	None	8K
INPUT/OUTPUT CONTROL	1		1	
No. of I/O channels	32	32	16	4
No. of I/O channels	10 2KB/com	29 AKP/000	29 AKP/000	F12KP/cas
Data transfer rate	19.2KB/Sec.	JO.4KB/SEC.	JO.4NB/SEC.	DIZNO/SEC.
COMMUNICATIONS				
Max. number of lines	1	8	1	32
Synchronous	No	No	No	Opt.
Asynchronous	Std · 9 6K bos	Std · 9 6K bos	Std - 19 2K bos	Std
Protocolo supported	2790	IBM 2790/2790	IBM 2780/2790	Any DEC supported
Frotocols supported	5/60	100/3/00	10W 2700/3700	Any DEC supported
			Esh - market	DEC
Type of LAN supported	none	Centurion	Etherneth	DECnet
RJE terminals emulated	3780	3780	3780	VT100
IBM 3270 emulation	No	No	No	No
PERIPHERAL FOUIPMENT				
Disks supported	64MB-96MB	Fixed: 35MB-515MB, Cartridge: 80MB	Fixed: 70MB-210MB,	Fixed: 10-140MB
Carial printers	120 and 150 and	120 and 150 and	120 and 150 and	50 100 one
Serial printers	120 cps-150 cps	120 cps- 150 cps	120 cps-150 cps	50-100 cps
Letter quality printers	45 cps	45 cps	45 cps	
Line printers	None	300 lpm-600 lpm	300 lpm-600 lpm	
Reel-to-reel tape drives	1600 bpi	None	None	
Streaming tane drives	55 ips	55 ips/40MB	50 ips/67MB	_
Cassette/cartridge tape drives	40MB	40MB	67MB	
Other normhands over arted		Diskotto 220K 1MP	None	
Other perpherals supported		Diskette 320K-TMB	None	
SOFTWARE				
Assembler	Assembler	Centurion Assembler,	Z8003 Assembler, SMC	Macro
Compilers	Basic, CPL	Basic, CPL, Cobol	Basic, Cobol	Fortran, Basic, Pascal,
				Cobol
	Popltimo Potob	Realtime Ratch	Realtime Ratch	Multitasking
Operating system	Portiolly	Portiolly	Partially	Fully
operating sys. Implemented in firmwar	erartially	Fartially	Fartially	Fully
Database management system	None	None	<u> </u>	Various
Principal industry application	Financial	Financial		Manufacturing
Other packages	Service industry,	Service industry,	1	Accounting
	accounting	accounting, reporting	1	
	-	& control	1	
Pasia system configuration and	6400 CRU DEMP diate		I	CPUL AMB momony
basic system comiguration and price	150. CFO, JOIVID UISK,		1	terminal 14004D
	Ivideo, 150 cps	1		
	printer—\$32,475		1	VVinchester, 2MB floppy
	6500: CPU, 64MB disk,			and RSX11-M software
	video, 150 cps			\$36,995
	printer-\$28,475	1	1	
		1	1	
	1			
		1		Contact vendor
Mo. maintenance of basic configuratic	ın \$440/\$400		1	Jan. 83
Mo. maintenance of basic configuratic Date of first deliverv	n \$440/\$400 October 1979			4
Mo. maintenance of basic configuratic Date of first delivery Number installed to date	n \$440/\$400 October 1979 130/40			
Mo. maintenance of basic configuratic Date of first delivery Number installed to date	n \$440/\$400 October 1979 130/40 6400 - asbiest model	Bit-slice Mini imple		
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	n \$440/\$400 October 1979 130/40 6400—cabinet model	Bit-slice Mini imple-		
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	xn \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796		
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	on \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796 (multibus)		
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	on \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796 (multibus)		—
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	on \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796 (multibus)		_
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	on \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796 (multibus)		_
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	on \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796 (multibus)		
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	on \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796 (multibus)		
Mo. maintenance of basic configuratic Date of first delivery Number installed to date COMMENTS	on \$440/\$400 October 1979 130/40 6400—cabinet model 6500—desk model	Bit-slice Mini imple- mented in IEE-796 (multibus)		

MANUFACTURER AND MODEL	Chromatics, Inc. CX1400	Chromatics, Inc. CX1500	Computer Automation, Inc. SyFA 150	Computer Automation Inc. SyFA 170
WORD LENGTH	16/32 bits	16 bits	16 bits	16 bits
MAIN MEMORY	128KB-9MB	512KB-8MB	128KB	128KB-256KB
DISK STORAGE CAPACITY	10MB-81MB	320KB	36-108MB	36-108MB
NO. WORKSTATIONS SUPPORTED	1 -		8	16
PRICE RANGE	\$20,000-\$40,000	\$47,995 up	\$17,250-\$49,800	\$21,250-#73,500
TARGET MARKET	Color Graphics	Manufacturing/engineer-	Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Motorola 68000	Custom	1 51-2/60	1 51-2/60
Herdware fleeting point	No.	22 bit IEEE 10Mflap	No.	Nana
Pottony backup		SZ-DICIELE TOWNOD.	None	None
Battery Dackup	Opt.	<u> </u>	None	None
Real-time clock or timer	Opt.	<u> </u>	Sta.	Std.
CPU cycle time, nanoseconds	-		150	150/100
MAIN STORAGE		ļ.		
Bytes fetched per cycle	—	I—	1 or 2	1 or 2
Memory access			 —	
Cycle/access time, nanoseconds	_		750	550
Storage protection	Std.		Std.	Std.
Increment size bytes	128K/512K	512K	None	128KB
Cache memory bytes	None		None	None
		1		
No. of I/O channels	Up to 16	5 corial 1 DMA 1	15	24
No. of 1/0 channels	EOOK words /see	DMA at 2MP (and	15	24
	SUUN WOIDS/SEC.	DIVIA at ZIVIB/Sec.	-	1
CONMUNICATIONS			1_	
Max. number of lines	18		8	16
Synchronous	No	None	Opt.	Opt.; 9.6K bps
Asynchronous	Std., 19.2K bps	Std., 19.2K bps	9.6K bps	Opt.; 9.6K bps
Protocols supported	RS-232, RS-449 std.,	DR11W, RS-232,	BSC	BSC, SNA, X.25
	DR11W opt.	Centronics		1
Type of LAN supported	None	None	None	SvFAnet
B.IF terminals emulated	None	None	2780/3780 HASP	2780/3780 HASP
IBM 3270 emulation	No	No	Voc	Yoc
			Tes	165
Dieles summerted	2 Fixed 10 40 00MD	51		00000
Disks supported	2 Fixed 10, 40, or 601016	FIOPPY 230 KB	301VID WINChester	36WB WInchester
Serial printers	Interface supported	Interface supported	200 cps	200 cps
Letter quality printers	Interface supported	Interface supported	30 cps	30 cps
Line printers	Interface supported	Interface supported	300-1000 lpm	300-1000 lpm
Reel-to-reel tape drives	800/1600 bpi	Interface supported	None	None
Streaming tape drives	No	No	None	l
Cassette/cartridge tape drives	No	No	10MB	10MB
Other perpherals supported	500KB diskette BBG out	BS170 BS343 slow scan	101112	Tomb
other perpheruis supported	Bookb diskette, fibd out	for campras, bardoopy		
Assembler			N	
Assembler	-		None	None
Compilers		<u> </u>	SyBOL	Sybol
Operating system	Graph. Prim. TermEm	User-defin. GKS engine	Realtime/batch/multitask	Realtime/batch/multitask
Operating sys. implemented in firmware	Fully	On floppy for boot	Ram memory resident	Partially
Database management system	None	None	_	
Principal industry application	CAD/CAM/CAE VISI	CAD/CAM/CAF VISI	Mfg transaction proc	Mfg transaction proc
approduction	Business Graphice	mapping, animation	distribution insurance	distribution incurance
Other packages				
Other packages				
Pagia system configuration and select	Contact wonds-	Contract words -	CPU energin	CDU an anti-
basic system configuration and price	Contact Vendor	Contact vendor	CPU, operating system,	CPU, operating system,
			utilities, 128KB memory,	utilities, 128KB memory,
		1	controller, 8-port mul-	controller, 8-port mul-
		1	tiplexer, disk/tape	tiplexer, disk/tape
			controller, cabinet,	controller, cabinet,
			terminal, disk/tape sub-	terminal, disk/tape sub-
		1	system-\$17.250	system-\$21.250
	1		, , ,	-,-,
Mo, maintenance of basic configuration	Contact vendor	Contact vendor	\$190	\$190
Date of first delivery	Sentember 1994	kung 1984	1984	1094
Number installed to date	Not supplied	Not supplied	1304	1304
	Inot supplied	INOL SUPPlied		
CONNIVIENTS		1	Upgrades to a 170	Upgrades to a 170
			Transaction Processor	Resource Processor on
	1	1	1	SyFAnet
	[1	1	
	1			
			1	
		l l		

MANUFACTURER AND MODEL	Computer Automation Inc. SyFA 300	Computer Automation, Inc. SyFA 1000	Computer Consoles Inc. Power 5-20	Computer Consoles Inc. Power 5-30
MORD I FNOT	40 hite	10 km		40.1.5
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
	128KB-304KB	128KB-384KB	2MB-4MB	ZMB-4MB
DISK STORAGE CAPACITY	32-96MB	1.2 billion	70MB-210MB	70MB-210MB
NO. WORKSTATIONS SUPPORTED	16	24	16	30
PRICE RANGE	\$31,000-\$87,000	\$36,400-\$202,000	\$35,000-\$150,000	\$50.000-\$200.000
TARGET MARKET	Business	Business	Integrated Office	Integrated Office
	Dualiteaa	Duameaa	Automation	Automation
CENTRAL PROCESSOR				Automation
CPU manufacturer and model	Proprietary	Proprietary	notorola 68000	dotorola 68012
Hardware fleeting point	No	No	Single	Single
Hardware libating point		NO	Siligie	Single
Battery backup	None	None	Opt.	Opt.
Real-time clock or timer	Std.	Std.	Opt.	Opt.
CPU cycle time, nanoseconds	150/100	150/100	125	80
MAIN STORAGE		1		
Bytes fetched per cycle	1 or 2	1 or 2	4	4
Mamony appage	10.2	1012	*	-
Access		550	150	450
Cycle/access time, nanoseconds	550	550		150
Storage protection	Std.	Std.	None	None
Increment size, bytes	128K	128K	1MB	1MB
Cache memory, bytes	None	None	4K	16K
NPUT/OUTPUT CONTROL	1	1	1	
No. of I/O channels	21	144	2	2
No. of I/O channels	2		3	5
Data transfer rate	<i>,</i>			—
COMMUNICATIONS		1	1	
Max. number of lines	9	34	20	40
Synchronous	Opt.; 9.6K bps	Opt.; 9.6K bps	Opt.: 56K bps	Opt.: 56K bps
Asynchronous	9.6K bps	Opt. 9.6K bps	Std.: 9.6K bps	Std.: 9.6K bps
Protocols supported	BSC SNA X 25	2780/3780 HASP SNA	2780/3780 5010	2780/3780 5010
	000, 000, 0.20	V 25 DOC		2,00,0,00,00LC
		X.25, BSC		
Type of LAN supported	SyFAnet	SyFAnet	Ethernet, SNA	Ethernet, SNA
RJE terminals emulated	2780/3780/HASP	2780/3780, HASP	None	None
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL FOUIPMENT		1		
Disks supported	Fixed: 32-96MB	Fixed: 32-300MB	70 MB	70 MB
Disks supported			10 110	/ 0 1110
Serial printers	200 cps	200 cms	1	
	20 000	30 and	25 FF and	25 FF and
Letter quality printers	SU cps	SU cps	35-55 Cps	35-55 Cps
Line printers	300-1000 lpm	300-1000 lpm	300-1000 lpm	300-1000 lpm
Reel-to-reel tape drives	None	None	125 ips; 9600 bpi	125 ips; 9600 bpi
Streaming tape drives	None	None		—
Cassette/cartridge tape drives	None	None	90 ips; 3200 bpi, 20MB	90 ips: 3200 bpi, 20MB
Other perpherals supported			None	None
BUFIWARE	(
Assembler	None	NO	Assembler	Assembler
Compilers	SyBol	SyBOL	C, Basic, Fortran, Cobol	C, Basic, Fortran, Cobol
Operating system	Realtime/batch/multitask	Realtime/batch/multitask	Realtime, multitasking	Realtime, multitasking
Operating sys_implemented in firmware	BAM memory resident	Partially	No	No
Database management evetem		,	Ingres, Unify	Ingres, Unify
Dringing industry application	Pisomoso transaction	Manufacturing incomeso	Office financial	Office financial
Francipal industry application	Disomess. transaction	distribution to		
	processing	oistribution, trans-	l	
Other packages		action processing	Legal	Legal
	1	1	[
PRICING & AVAILABILITY				
Basic system configuration and price	CPU, operating system,	CPU, operating system,	CPU, 2.5MB memory, 70MB	CPU, 2.5MB memory, 70N
	utilities, 128KB memory,	utilities, 128KB memory,	disk, 45MB tape,	disk, 45MB tape,
	controller async	controller, asyn multi-	8 ports, office auto-	8 ports, office auto-
	multiplayer disk con-	playar disk controllar	mation software	mation software
	analian aphines 20MP	piexer, disk controller,	\$20 400	¢E0.0E0
	troller, cabinet, 32IVIB	cabinet, terminal, 321VIB		
	cartridge drive, ter-	cartridge drive—\$36,400	1	
	minal—\$31,200 (minal			
Mo, maintenance of basic configuration	\$285	\$350	\$304	\$454
Date of first delivery	May 1980	July 1975	January 1983	December 1984
Number installed to date	1000		500+	10
		hund to be a set of the	1000-	10
COMMENTS	High-level host inter-	High-level host inter-	1	
	face, Telenet, Uninet,	face, Telenet, Uninet,		
	Tymnet certified. Up-	Tymnet certified. Up-	1	
	and a to a 1000 Trans	grades to a 1000		
	Innanes in a main mane.			
	grades to a 1000 frains-	Bacourao Brossoors		
	action Processor or a	Resource Processor on		
	action Processor or a 300 Resource Processor	Resource Processor on SyFanet.		
	action Processor or a 300 Resource Processor on SyFAnet	Resource Processor on SyFanet.		
	action Processor or a 300 Resource Processor on SyFAnet	Resource Processor on SyFanet.		
	action Processor or a 300 Resource Processor on SyFAnet	Resource Processor on SyFanet.		

MANUFACTURER AND MODEL	Computer Designed Systems Adviser 100	Computer Designed Systems Adviser 600	Computer Designed Systems Adviser 900	Computer Extension Systems, Inc. OMNIPAC
WORD LENGTH	16 bits	16 bits	16 bits	12 bits
MAIN MEMORY	64KB-512KB	64KB-1MB	512KB-6MB	8KB-1MB
DISK STORAGE CAPACITY	23MB-288MB	23MB-800MB	800MB-4 2GB	10MB-240MB
NO. WORKSTATIONS SUPPORTED	8	24	64	16
PRICE RANGE	\$20,000-\$100,000	\$50,000-\$250,000	\$100,000-\$500,000	\$15,000-\$29,000
TARGET MARKET	Business/Manufacturing/	Business, Manufacturing,	Business, Manufacturing,	Business
CENTRAL PROCESSOR	Distribution	Distribution		
CPU manufacturer and model	Propriotory	Proprioton	Bronsiston	Due mulada mu
Herdware fleeting point	ripherary	Deuble	Dauble	Proprietary
Pattory backup			Double	None
Dallery backup	Opt.		Opt.	None
Real-time clock or timer	50.	Std.	Std.	Std.
CPU cycle time, nanoseconds	200	100	100	980
VIAIN STORAGE		_		
Bytes fetched per cycle	4	6	6	2
Memory access	64 bits/sec.	64	64	15
Cycle/access time, nanoseconds	100	100	100	980
Storage protection	Opt.	Opt.	Opt.	None
Increment size, bytes	32K	64K	64K	8K
Cache memory, bytes	None	2K	4K	None
INPUT/OUTPUT CONTROL				
No. of I/O channels	8	16	32	32
Data transfer rate	256K bytes/sec.	512KB/sec	512K bytes/sec	1M word/sec
COMMUNICATIONS]]	
Max number of lines	12	24	64	32
Synchronous		Opt		Opt .
Asynchronous	Cpt.	Crd		
Asynchronous Protocolo supporto-				Opt.
FIOLOCOIS supported				1—
				_
Type of LAN supported	None			DECnet
RJE terminals emulated	None	2780/3780	3780	
IBM 3270 emulation	No	Yes	Yes	No
PERIPHERAL EQUIPMENT				
Disks supported	Pack: 32-96MB	Pack: 32-96MB Fixed: 80-300MB	Fixed: 80-600MB	Winchester: 120MB
Serial printers	20-350 cps	20-350 cps	20-350cps	120 cps
Letter quality printers	20-250 cps	20-250 cps	20-250cps	40 cps
Line printers	300/600/1200 lpm	300/600/1200 lpm	300/600/1200 lpm	300 lpm
Reel-to-reel tape drives	800/1600 bpi	800/1600 bpi	800/1600 bpi	Nono
Streaming tape drives	Opt	Nono	Nene	Nepe
Cassette/cartridge tape drives	Opt	None	None	None
Other nernherele sum ented	Opt.	None	None	
Other perpherals supported			· · · · · · · · · · · · · · · · · · ·	Floppy disk
SUFIWARE				
Assembler	NO	Yes	Yes	PAL
Compilers	Abol	Abol, Cobol, Basic,	Abol, Cobol, Basic,	Dibol, Pascal, Basic,
	}	Fortran, Pascal, RPG	Fortran, Pascal, RPG	WPS8, Fortran IV
Operating system	Realtime, multitask, batch	Realtime, multitask, batch	Realtime, multitask, batch	Multiprocessing
Operating sys. implemented in firmware	Partially	Partially	Partially	No
Database management system	Advisor +	Advisor +	Advisor +	None
Principal industry application	Manufacturing, distribu-	Manufacturing, fixed	Manufacturing,	Office automation
	tion	assets, distribution	distribution	
Other packages	Medical, construction.	Medical, construction.	Medical, construction.	
	fixed assets		fixed assets	
PRICING & AVAILABILITY				
Basic system configuration and price	64K memory 1 CBT 23MB	CPU 128K memory 2 CBTs	CPU 128KB memory 2CBTs	CPU 40MB diek 128K
basis system semigaration and prise	disk 300 lpm printer-	80MB disk 300 lpm	80MB disk 300 lpm	word memory-\$15,000
	\$30,000	printer_\$80,000	printer\$150,000	word memory—\$15,000
	\$30,000	printer	printer\$150,000	
	1		1	
	1			
	14200 00	A750.00	4	
ivio. maintenance of basic configuration	\$300.00	\$750.00	\$1,025.00	Contact vendor
Date of first delivery	1975	1977	19/7	1980
Number installed to date			—	200
COMMENTS			1	Supports all DEC
)			compatible peripherals.
	1			
	[[
			1	
	1	1	1	
			1	

MANUFACTURER AND MODEL	Datapoint Corp. 8400	Datapoint Corp. 8600	Datapoint Corp. 8800	Digital Equipment Corp. PDP-11/73
WORD LENGTH MAIN MEMORY DISK STORAGE CAPACITY NO. WORKSTATIONS SUPPORTED	16 bits 512KB-1MB 130MB 8 67 F00 #15 000	16 bits 128KB-1MB 180MB 24 63 500 615 000	16 bits 256KB-1024KB 202-1012MB 24 550.000	16 bits 256KB-4MB 62MB 14
	Business/Office Auto- mation	Business/Office Auto- mation	Business/Office Auto- mation	Business/technical
CENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Real-time clock or timer CPU cycle time, nanoseconds MAIN STORAGE Bytes fetched per cycle Memory access Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes INPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate	Intel 80286 	Proprietary 	Proprietary None Std. 4 4 128K None 8 1.2M bytes/sec.	Proprietary Std. None Std. 276 2 Less than a microsecond
COMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation	— — — 2780/3780, 3270, Data- poll, DSSLAVE, Multilink Datapoint ARC Network — No	2 — 2780/3780, 3270, Data- poll, DSSLAVE, Multilink Datapoint ARC Network 2780/3780, Hasp Yes	3 Opt. 40.8K bps 2780/3780 HASP Datapoll, 3278 ARC* 2780/3780 Yes	4 or 8 Opt. 3.8K bps 50 to 3.8K bps DDCMP, DNA, 2780/3780 3270, HASP, SNA, X.25 DECnet, Ethernet 2780/3780 Yes
Disks supported Serial printers Letter quality printers Line printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other perpherals supported	Fixed: 40MB Cartridge: 10MB-20MB 120-300 cps 35-80 cps 300-600 lpm None None 10MB-20MB	Fixed: 10-60MB Removable: 10-20MB 120-300 cps 35-80 cps 300-1000 lpm 25 ips None 10MB-20MB Diskettes DS-DD 8MB	Fixed: 135-270MB Removable: 67MB 35-160 cps 35 cps 300-600 lpm 25 ips None 20MB Laser printer, color bus. graphics	Winchester: 11MB-31MB, Cartridge 400KB 30-240 cps 30 cps 300-1200 lpm None None 60MB
Assembler Compilers	 Databus	 Basic, RPB, Cobol, Databus	SNAP3 Macro Basic PLS, Fortran, Databus, Datashare, Cobol, BPG Plus, Chain	Assembler and Macro Cobol, Fortran, Basic, Coral, Dibol, Pascal
Operating system Operating sys. implemented in firmware Database management system Principal industry application	Multitasking — None Office automation	Multitasking — None Office automation	Multitasking — None Office automation	Batch, realtime No None
Other packages	Full line of applica- tion packages	Full line of applica- tion packages		Graphics, Datatrieve, word processing
PRICING & AVAILABILITY Basic system configuration and price	CPU, 512K memory, 10MB cartridge disk, 40MB fixed disk, Arc network interface —\$20,000	CPU, 256K memory, 10MB cartridge disk, 40MB fixed disk, Arc network interface —\$20,000	CPU, 256K memory, 202MB disk, console, 8 port serial interface, 2 peripheral processors —\$60,000	CPU, 512KB memory, 8- line multiplexer, 31MB Winchester disk, dual diskette—\$15,400
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$207 August 1983 — supported with local area network	\$225 September 1981 — supported with local area network	\$530 1981 500 *36,780 workstations supported with local area network	\$120 July 1984 —

MANUFACTURER AND MODEL	Digital Equipment Corp. PDP-11/23	Digital Equipment Corp. PDP-11/23-Plus	Digital Equipment Corp. PDP-11/24	Digital Equipment Corp. PDP-11/44
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	256KB-4MB	256KB-4MB	1MB-4MB	1MB-4MB
DISK STORAGE CAPACITY		Not supplied		
NO WORKSTATIONS SUPPORTED	127	127	127	127
PRICE BANGE		From \$10,000	From \$26,000	From \$44,000
TARGET MARKET	Commercial/technical	Business/technical	Business/technical	Business/technical
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
Hardware floating point	Opt.	Opt.	Std.	Opt.
Battery backup	No	No	Opt.	Opt.
Real-time clock or timer	Opt.	Std.	Std.	Std.
CPU cycle time, nanoseconds	<u> </u>			
VIAIN STORAGE		1		
Bytes fetched per cycle	 —	I—	<u> </u>	
Memory access		<u> </u>		I
Cycle/access time, nanoseconds		59/26	_	96/48
Storage protection	None	Std	Std	Std
Increment size bytes	1286	256KB 512KB	1M	1M
Cache memory bytes	None	None	None	8K
	INOTE	INDIR	BIIONE	ON
	1	1.4		1.0
No. of I/O channels	1-	14	a	14
Data transfer rate				1M/second
COMMUNICATIONS				
Max. number of lines		2	I—	
Synchronous	Opt.; 1M bps	Opt.; 1M bps	Opt.; 1M bps	Opt.; 1M bps
Asynchronous	Opt.; 9.6K bps	Opt.; 9.6K bps	Opt.: 9.6K bps	Opt.: 9.6K bps
Protocols supported	DDCMP, DNA	DDCMP, DNA, X.25	DDCMP, DNA	DDCMP, DNA
Type of LAN supported	DECnet	DECnet, Ethernet	DECnet, Ethernet	DECnet, Ethernet
RJE terminals emulated	None	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	No	Yes	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Winchester: 11MB-31MB,	Winchester: 10MB-31MB,	Winchester: 121KB-456KB	Winchester: 121MB-456MI
	Cartridge 5.2MB-41.6MB	Cartridge: 5.2MB-41MB	Pack: 205MB, floppy	Pack: 205MB
Serial printers	180 cps	30-240 cps	30-240 cps	30-240 cps
Letter quality printers		30 cps		
Line minters	200 600 mm	200 1200 hm	200 1200 lpm	200 1200 1
Line printers	300-600 ipm	300-1200 lpm	300-1200 ipm	1300-1200 ipm
Reel-to-reel tape drives	None	None	45 ips; 800/1600 bpi	45/125 ips; 800/1600 bpi
Streaming tape drives	None	None	25/100 ips; 40MB	25/100 ips; 40MB
Cassette/cartridge tape drives	562 cps cassette	562 cps cassette	30 ips; 800 bpi	30 ips; 800 bpi
Other perpherals supported			Card readers	
	1		1	
			Accomplex and	Assembler of
Assembler	Assembler and Macro	Assembler and macro	Assembler and macro	Assembler and macro
Compilers	Basic, Fortran, Cobol,	Cobol, Fortran, Basic,	Cobol, Fortran, Basic,	Cobol, Basic, Fortran,
	Corol	Coral, Pascal, Dibol	Corol, Dibol	Corol, Dibol, Pascal
Operating system	Batch real time	Batch realtime	Booltime multitecture	Batch rostimo
Operating system	Daton, real-time	Nation, realtime	Nearume, mututasking	Daton, reditime
Operating sys. implemented in firmware	INO		INO	
Database management system	None	None	None	None
Principal industry application			1	
Uther packages	Graphics, Datatrieve,	Graphics, Datatrieve,	Graphics, Datatrieve,	Graphics, Datatrieve
	word processing	wora processing	wora processing	word processing
PRICING & AVAILABILITY			1	
Basic system configuration and price	CPU 256KB momory dual	PDP-11/23-Plue with	CPLI with 1MB memory	CPI with 1MB memory
basic system configuration and price	diakatta \$7,200		four eveters units for	2 austam units for
	diskette	250KB memory, one	rour system units for	3 system units for
		dual diskette subsystem	expansion, I/O connector	expansion, cabinet and
	1	\$13,000	panel, cabinet and power	power controller
	1	1	controller\$12,500	\$29,300
Mo maintenance of basic configuration	\$62	\$132	\$105	\$175
Mo. maintenance of basic configuration	\$62 July 1979	\$132	\$105	\$175 June 1980
Mo. maintenance of basic configuration Date of first delivery	\$62 July, 1979 Net supplied	\$132 1981	\$105 1981	\$175 June 1980
Mo. maintenance of basic configuration Date of first delivery Number installed to date	\$62 July, 1979 Not supplied	\$132 1981	\$105 1981 Not supplied	\$175 June 1980 Not supplied
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 — Utilizes DEC's RSX-11M,	\$105 1981 Not supplied Utilizes DEC's RT-11,	\$175 June 1980 Not supplied Optional CIS processor
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 Utilizes DEC's RSX-11M, RSX-11M-Plus, RSX-11S,	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 Utilizes DEC's RSX-11M, RSX-11M-Plus, RSX-11S, RSTS-E, CTS-500, RT11,	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300 DSM-11, and Unix-based	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment available; enhanced
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 Utilizes DEC's RSX-11M, RSX-11M-Plus, RSX-11S, RSTS-E, CTS-500, RT11, and DSM11 operating	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300 DSM-11, and Unix-based operating systems	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment available; enhanced main-table features &
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 — Utilizes DEC's RSX-11M, RSX-11M-Plus, RSX-11S, RSTS-E, CTS-500, RT11, and DSM11 operating systems.	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300 DSM-11, and Unix-based operating systems	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment available; enhanced main-table features & intelligent console
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 Utilizes DEC's RSX-11M, RSX-11M-Plus, RSX-11S, RSTS-E, CTS-500, RT11, and DSM11 operating systems.	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300 DSM-11, and Unix-based operating systems	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment available; enhanced main-table features & intelligent console subsystem.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 Utilizes DEC's RSX-11M, RSX-11M-Plus, RSX-11S, RSTS-E, CTS-500, RT11, and DSM11 operating systems.	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300 DSM-11, and Unix-based operating systems	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment available; enhanced main-table features & intelligent console subsystem.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300 DSM-11, and Unix-based operating systems	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment available; enhanced main-table features & intelligent console subsystem.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	\$62 July, 1979 Not supplied	\$132 1981 Utilizes DEC's RSX-11M, RSX-11M-Plus, RSX-11S, RSTS-E, CTS-500, RT11, and DSM11 operating systems.	\$105 1981 Not supplied Utilizes DEC's RT-11, RSX-11M, RSTS/E, CTS-300 DSM-11, and Unix-based operating systems	\$175 June 1980 Not supplied Optional CIS processor & 1MB memory increment available; enhanced main-table features & intelligent console subsystem.

MANUFACTURER AND MODEL	Display Data Corp. . in * sight	Four-Phase Systems, Inc. Model 260	Four-Phase Systems, Inc. Model 290	General Automation, Inc. ZEBRA 3000
	8 hits	16/32 bits	16/32 hits	16/32 hits
	64KB-128KB	512KB-1MB	512KB-2MB	1MB-1 5MB
	12-102MP	260MP	260MP	64MD 256MD
	10	0	10	1041010-2301010
NU. WURKSTATIONS SUFFURIED	10		12 \$12,000 \$10,000	
	<u> </u>	\$9,000-\$16,000	\$12,000-\$18,000	\$28,900-\$75,000
TARGET MARKET	Business	Distributed Office	Distributed Office	Small Business
		Processing	Processing	
CENTRAL PROCESSOR				
CPU manufacturer and model	DDC Series 8300	Motorola 68010	Motorola 68010	Motorola 68000
Hardware floating point	None	None	None	No
Battery backup	None	None	None	Std
Beal-time clock or timer	Std	Std	Std	None
	200			None
	200	OIVINZ	TOMITZ	
MAIN STORAGE				
Bytes fetched per cycle	11	2	2	2
Memory access		<u> </u>		
Cycle/access time, nanoseconds	1000	875	450	
Storage protection	None	Std.	Std.	Std.
Increment size bytes	64K	512K	512K	512K
Casha mamary bytes	None	None	None	Nono
				NOTE
		1100	100	1
NO. OT I/U channels	4	128	128	
Data transfer rate	1M words/sec.	1.6M bytes/sec.	1.6M bytes/sec.	<u> </u>
COMMUNICATIONS	1	· ·		
Max. number of lines	8	2	2	18
Synchronous	Opt.; 4.8K bps	Std.; 9.6K bps	Std.; 9.6K bps	Opt. 9.6K bps
Asynchronous	Std 9.6K bps	Std : 19 2K bps	Std · 19 2K brs	Std 19 2K bpe
Protocols supported	X3 28 2720/2700 TTV	SNA BSC Avung 2270	SNA BSC Aving 2270	2780/3790
		2200 2700 TTV	2290 2790 TTV	2,00,0,00
		3280, 2780 111	3280, 2780 114	
Type of LAN supported	Omninet	Ethernet (Codex)	Ethernet (Codex)	Arcnet
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	No	Yes	Yes	No
PERIPHERAL EQUIPMENT				
Disks supported	Fixed: 32-64MB (up to 3	Winchester: 5MB, 15MB,	Winchester: 5/15/52MB	Fixed: 64MB
	ner system)	52MB		
Serial printers	80-320 cps	100-200 cps	100-200 cps	200 ens
	50-520 cps		100-200 Cps	200 cps
Letter quality printers	55 Cps	35-55 cps	35-55 cps	<u> </u>
Line printers	300 lpm	300/600 lpm	300/600 lpm	150-600 lpm
Reel-to-reel tape drives	None	None	None	None
Streaming tape drives	None	5MB minute	5MB minute	25 ips; 1600 bpi
Cassette/cartridge tape drives	20MB-64MB; 30-90 ips	None	None	90 ips: 20MB
Other perpherals supported				
Striet perpresais supported				
SOFTWARE				
Assessed		00010	60010	
Assembler	Iviacro	68010	68010	
Compilers	None	Cobol, Basic, Pascal,	Cobol, Basic, Pascal,	C, Basic, Cobol
		C	C	
Operating system	Realtime/multitasking	Unix Svs. V	Unix Svs. V	Xenix multitasking
Operating system Operating system	Realtime/multitasking	Unix Sys. V —	Unix Sys. V —	Xenix multitasking Partially
Operating system Operating sys. implemented in firmware Database management system	Realtime/multitasking	Unix Sys. V	Unix Sys. V	Xenix multitasking Partially
Operating system Operating sys. implemented in firmward Database management system	Realtime/multitasking = — in * Sight Dev. Sys.	Unix Sys. V — Unify	Unix Sys. V — Unify	Xenix multitasking Partially Informix
Operating system Operating sys. implemented in firmware Database management system Principal industry application	Realtime/multitasking a — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal	Unix Sys. V — Unify Horizontal	Xenix multitasking Partially Informix General Business
Operating system Operating sys. implemented in firmware Database management system Principal industry application	Realtime/multitasking ə — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal	Unix Sys. V — Unify Horizontal	Xenix multitasking Partially Informix General Business
Operating system Operating sys. implemented in firmward Database management system Principal industry application Other packages	Realtime/multitasking 9 — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread-	Unix Sys. V — Unify Horizontal Word processing, spread-	Xenix multitasking Partially Informix General Business Office Automation,
Operating system Operating sys. implemented in firmware Database management system Principal industry application Other packages	Realtime/multitasking 9 — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by-	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by-	Xenix multitasking Partially Informix General Business Office Automation, Word processing
Operating system Operating sys. implemented in firmware Database management system Principal industry application Other packages	Realtime/multitasking 9 — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms	Xenix multitasking Partially Informix General Business Office Automation, Word processing
Operating system Operating sys. implemented in firmware Database management system Principal industry application Other packages PRICING & AVAILABILITY	Realtime/multitasking e — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms	Xenix multitasking Partially Informix General Business Office Automation, Word processing
Operating system Operating sys. implemented in firmware Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking e — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB	Unix Sys. V Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPLI 512MB memory, 5MB	Xenix multitasking Partially Informix General Business Office Automation, Word processing
Operating system Operating sys. implemented in firmware Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking e — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Wirebestor	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB
Operating system Operating sys. implemented in firmward Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking e in * Sight Dev. Sys. 	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester	Unix Sys. V Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB disk, cartridge tape
Operating system Operating sys. implemented in firmware Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking 9 — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 15MB fixed	Unix Sys. V Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 52MB fixed	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB disk, cartridge tape drive, 10 1/0 ports,
Operating system Operating sys. implemented in firmward Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking e — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 15MB fixed Winchester disk, 6	Unix Sys. V Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 52MB fixed Winchester disk, 6	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB disk, cartridge tape drive, 10 I/O ports, operating System, word
Operating system Operating sys. implemented in firmware Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking e — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 15MB fixed Winchester disk, 6 serial ports—\$9,665	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 52MB fixed Winchester disk, 6 serial ports—\$16,500	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB disk, cartridge tape drive, 10 I/O ports, operating System, word processing UPS—\$28,900
Operating system Operating system Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking 9 — in * Sight Dev. Sys. —	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 15MB fixed Winchester disk, 6 serial ports—\$9,665	Unix Sys. V Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 52MB fixed Winchester disk, 6 serial ports—\$16,500	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB disk, cartridge tape drive, 10 I/O ports, operating System, word processing UPS—\$28,900
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Operating system Operating system Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price	Realtime/multitasking = in * Sight Dev. Sys. 	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 15MB fixed Winchester disk, 6 serial ports—\$9,665 \$127 1992	Unix Sys. V Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 52MB fixed Winchester disk, 6 serial ports—\$16,500 \$194	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB disk, cartridge tape drive, 10 I/O ports, operating System, word processing UPS—\$28,900
Operating system Operating system Database management system Principal industry application Other packages PRICING & AVAILABILITY Basic system configuration and price Mo. maintenance of basic configuration Date of first delivery	Realtime/multitasking in * Sight Dev. Sys. 	Unix Sys. V Unix Sys. V Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 15MB fixed Winchester disk, 6 serial ports—\$9,665 \$127 1983 1000 i	Unix Sys. V — Unify Horizontal Word processing, spread- sheets, SQL, Query-by- Forms CPU, 512MB memory, 5MB removable Winchester disk, 52MB fixed Winchester disk, 6 serial ports—\$16,500 \$194 1984	Xenix multitasking Partially Informix General Business Office Automation, Word processing CPU, 1MB memory, 64MB disk, cartridge tape drive, 10 I/O ports, operating System, word processing UPS—\$28,900 Contact vendor April, 1983
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MANUFACTURER AND MODEL	General Automation, Inc. ZEBRA 3500	General Automation, Inc. ZEBRA 5500	General Robotics Micro-main Frame	General Robotics Cobra 16
WORD LENGTH	16/32 bits	16/32 bits	16 bits	16 bits
MAIN MEMORY	256KB-1MB	1MB-1 5MB	64KB-4MB	512KB-2MB
DISK STORAGE CAPACITY	64MB-256MB	142MB-568MB	10MB-300MB	ROMB-FOOMB
	24	40		1 SOIVID-SOUVID
NO. WORKSTATIONS SUPPORTED		48	32	32
PRICE RANGE	\$32,450-\$60,000	\$55,300-\$100,000	\$13,000-\$20,000	\$15,000K and up
TARGET MARKET	Small Business	Small Business	Technical/Business	Technical/Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Motorola 68000	Motorola 68000	15-11/23-11/73	DEC 111
Hardware fleating point	No	No	Daubla	
		INO	Double	1—
Battery backup	Std.	Std.	jOpt.	
Real-time clock or timer	None	None	Std.	(<u> </u>
CPU cycle time, nanoseconds	I—		Std.	
MAIN STORAGE	1			
Bytes fetched per cycle	2	2	4	
Mamony easons	2	2	4	
Wemory access	-		64	1-
Cycle/access time, nanoseconds		1	<u> </u>	
Storage protection	Std.	Std.	1-	-
Increment size, bytes	768K	512K	64K	256KB
Cache memory, bytes	None	None	None	
	···· •	1		1
No. of I/O channels	-	<u> </u>	I—	
Data transfer rate	—	1-	I —	1—
COMMUNICATIONS		1		1
Max. number of lines	26	50	32	32
Synchronous	Opt 9 6K bps	Opt 9 6K bps	No	No
Asynchronous	C+d 10.2K b==			
Asynchronous Protocols supported	2780/3780	2780/3780	Opt.; 19.2K bps	Std.; 19.2K bps
	2,00,0700	2/00/0700		
Type of LAN supported	Arcnet	Arcnet	Ethernet, DECnet	Ethernet
RJE terminals emulated	None	None	2780/3780 Hasp	
IBM 3270 emulation	No	No	No	<u> </u>
	110			-
Disks supported	Fixed 64MB	Fixed: 142MB	10MB-300MB	80MB-500MB
			Diskettes: 600KB-1MB	1
Serial printers	200 cps	200 cps	30-180 cps	30-180 cps
Letter quality printers		I	45 cps	45 cps
Line printers	150,600 lpm	150 600 lpm	1200 1E00 lpm	45 Cps
	150-600 ipm	150-600 ipm	300-1500 ipm	300-1500 lpm
Reel-to-reel tape drives	None	None	800/1600 bpi	800/1600 bpi
Streaming tape drives	25 ips; 1600 bpi	25 ips; 1600 bpi	1600 bpi	1600 bpi
Cassette/cartridge tape drives	90 ips; 20MB	90 ips; 20MB	20MB	20MB-100MB
Other perpherals supported				
	1	}		
SUFIWARE				
Assembler			Macro	Macro
Compilers	Pick Basic	Pick Basic	All DEC-compatible	All DEC-compatible
Operating system	Pick multitasking	Pick multitasking	Realtime batch	Bealtime Batch
Operating eye implemented in firmware	Partially	Portially	E-ult	liteatime, batch
Operating sys. Implemented in infitware	rariany		Fully	<u> </u>
Database management system	Access	Access	None	<u> </u> -
Principal industry application	General business	General business	Manufacturing,	
			wholesale	
Other packages	Word processing.	Word processing.	Office systems	<u> </u>
F 9	graphics, spreadsheet	graphics, spreadsheet		
		graphics, spreadsheet		
basic system configuration and price	CPU, 256KB memory,	CPU, TIVIB memory, 142IVIB	CPU, 512KB memory,	(<u> </u>
	64MB disk, cartridge	disk, streaming tape	20MB disk, ¼″ streaming	
	tape drive, 10 I/O	drive, 10 I/O ports,	tape, 4 I/O ports-	1
	ports, operating System	Operating System UPS	\$13,000	
	LIPS Accu-Plot lat and	Accu-Plot Compu Shoot	1	
	Compushedt #22.4EC	Lot CEE 200	1	
	Compusiteer—\$32,450	Jei		1
Mo. maintenance of basic configuration	Contact vendor	Contact vendor	-	
Date of first delivery	April, 1983	April, 1983	January 1982	June 1984
Number installed to date	<u> </u>		I /	
COMMENTS			1	Single board mainfrom
COMMENTO	1	1	1	Single board maintrame
		1		
	1			
	[1	1	
	L	I	l	1

WORD LENGTH Wark MAXIM MEMORY DISK STORAGE CAPACITY DISK STORAGE	MANUFACTURER AND MODEL	General Robotics Python 32B	Hewlett-Packard HP9000 Model 220	Hewlett-Packard HP9000 Model 236	Hewlett-Packard Co HP 1000 E/F Series
MAIN MERCEY Mole Auton Total auton <thtotal auton<="" th=""> <thtotal auton<="" th=""></thtotal></thtotal>	WORD LENGTH	16/32 bits	16/32 bits	16/32 bits	16 bits
Disk strokate CAPACITY 80-168 2708-1638 2708-1638 100-100 PRICE RANGE ARGET MARKET 80-168 2708-1638 100-100 22.780-52.260 PRICE RANGE ARGET MARKET 50-100 53.1000-100 53.1000-100 53.1000-100 Charlow Control 53.1000-100 53.1000-100 53.1000-100 50.1000 Charlow Control 53.1000-100 53.1000-100 50.1000 70.1000-100 Charlow Control 53.1000-100 50.1000 70.1000-100 70.1000-100 State Sta	MAIN MEMORY	1MB-4MB	512KB-16MB	512KB-16MB	256KB-2MB
More Total More To	DISK STORAGE CARACITY	80-1GB	270KB-1 6GB	270KB-1 6GB	10MB-3 2GB
Numer banker Schwart in Street Schwart in	DISK STURAGE CAFACITT	80-10B	1270KB-1.000	270KB-1.0GB	1000B-3.20B
PRICE RAVGE \$30,000 and up \$24,000-\$100,000 \$31,000-\$100,000 \$31,000-\$100,000 EXTRACT MARCET Technical/Losiness Emprending_scientific Emprending_scientific Scientific/Technical/Losiness EXTRACT MARCET Noticolis 68000 Opr. double Opr. double Opr. double Proprietary EXTRACT MARCET Scientific/Technical/Losiness Scientific/Technical/Losiness Proprietary Noticolis 68000 Opr. double Double <t< td=""><td>NO. WORKSTATIONS SUPPORTED</td><td>04</td><td></td><td></td><td></td></t<>	NO. WORKSTATIONS SUPPORTED	04			
CARGET MARKET Technical (Business) Engineering, scientific Engineering, scientific Engineering, scientific Engineering, scientific Ford or an 6 6000 CPU manufacture and model Battery tackup NS 20202 Morcrois 68000	PRICE RANGE	\$30,000 and up	\$24,000-\$100,000	\$31,000-\$100,000	\$23,750-\$32,750
EXITUAL PROCESSOR No 221 manufacture and model Std. Hardware floating point Std. Tormanufacture and model Std. Std. Std. Washington Std. Std. Bytes fleichd per cycle - Menory access - Cycle Access time, nunesconda - Cycle Access time, nunesconda - No. of I/O channels - - 256R8 Std. Std. No. of I/O channels - - 21 More No. of I/O channels - - 21 More No. of I/O channels - - - No. of I/O channels - - - No. of I/O channels - - - None None Std. Std. No. of I/O channels - - - - -	TARGET MARKET	Technical/Business	Engineering, scientific	Engineering, scientific	Scientific/Technical
CHU manufacturer and model NS 32032 Motorois 68000 Motorois 6800 Motorois	CENTRAL PROCESSOR				
Partyse fasting point Std. Opt., double	CPU manufacturer and model	NS 32032	Motorola 68000	Motorola 68000	Proprietary
Internet sector None None Operation Op	Hardware fleating point	Std	Opt : double	Opt : double	None (ont
Battery Jackage management Battery Jackage management Battery Jackage management Battery Jackage Comparison of Line Provide ANN STORAGE Protocols amountaion of Line Provide ANN STORAGE Protocols amountaion of Line Provide ANN STORAGE Protocols amountaion of Line Provide ANN STORAGE Protocols apported Srial priorities Software angineering Software angineerin	Hardware loading point	Siu.		opt., double	INDIR/Opt.
Rest-lam clack or timer Std. Std. Std. Std. None Mone Carbon Std. None Mone Std. None Mone Std. Std. Std. Std. Std. Std. Std. Std.	Battery backup		None	None	Opt.
CPU cycle time, nanoseconds 360 360 Prast fictured per cycle 2 2 2 Prast fictured per cycle 625 665/420 Storage protection 625 665/420 Interment size, hytes 256K8 256K8 128K Cache memory, bytes 4.32 9-14 Data transfer rate 4.32 9-14 Data transfer rate 21 10K8, set size 2 9-14 Mox, or // Orbinsitou 4.32 24 Max, number of lines 54 21 10K8, set size 2 9-14 Max, number of lines 54 21 10K8, set size 2 9-14 Max, number of lines 54 21 21 12K Max, number of lines 54 21 21K 12K Max, number of lines 54 22 2780/3780, X.25, HDLC 2780/3780, X.25, HDLC Type of LAN apported Bomen None None None Rest correat spectrate 2780/3780, X.25, HDLC Disks supported 300-1500 bpn 450 (ps: 1000 bpi 180 (ps: ps: 1000 bpi Stratig printer	Real-time clock or timer	Std.	Std.	Std.	None
VAIN STORAGE Press forthed per cycle Memory access — — — — — — — — — — — — — — — — — — —	CPU cycle time, nanoseconds		360	360	
instructional per cycle - - 2 2 2 Cycle/access time, namesconds - 625 625 625 625 Storage protection - 625 7 625	MAIN STORAGE				
Demony secces	Butes fetched per cycle		2	2	2
Monory Access Discipage protection I and Maryland Feb (J20) Feb (J20) Solidage protection - None None Solidage protection Feb (J20) Solidage protection - None Solidage protection None None None None None Non			1 GM hits /see		-
Cycle/access time, ranseconds - b25 B25 B25 B26/420 Storage protection 256KB 256KB 256KB 10 10 Corbe mannor, bytes - 4-32 4-32 9-14 300 Data transfer rate - 24.32 4-32 9-14 300 Sondtrottons G4 21 21 None Opt. 95 (bas 10, 000 Max. number of lines G4 21 21 None Opt. 95 (bas 10, 000 Synchronous G5 - - - - Opt. 19.2K bps	iviemory access		1.0W Dits/sec.	1.0W Dits/sec.	
Storage protection Incrmant size, bytes Cacher memory, bytes Cacher me	Cycle/access time, nanoseconds	-	625	625	665/420
Increment size, bytes 256KB – 256KB – 256KB – 256KB – 128K - Mone – 4-32 – 16KB, set size 2 – 175KB – 1	Storage protection	-	None	None	Std.
Cache memory, bytes 19KB, set size 2 19KB, set size 2 None No. of I/O channels 4-32 24-32 24-32 Data transfer rate 24 21 2DMMURCATIONS 84 21 21 Max. number of lines 64 21 21 Synchronosa None 21 Yop of LAN supported RUE terminals emulated RUE terminals emulated RUE terminals emulated RUE terminals emulated Serial printers 30-180 cps 180 cps 180 cps 180 cps 200-400 pm Streaming tape drives 30-180 cps 180 cps 180 cps 200-400 pm Streaming tape drives 30-1600 bpi None 50 ap 200-1500 bpi Streaming tape drives 200-1600 bpi None None None Other parklages <td>Increment size. bytes</td> <td>256KB</td> <td>256KB</td> <td>256KB</td> <td>128K</td>	Increment size. bytes	256KB	256KB	256KB	128K
None 1000, 98 as 2 2 1000, 98 as 2 2 1000 None	Cache memory bytes		16KB set size 2	16KB set size 2	None
4.32 4.32 4.32 2M bytes/sec. 9.14 200M NUKCA TONS	NOUT /OUTDUT CONTROL	1	, 510, 501 BILC 2	1011D, 001 0120 Z	
No. of Up channels 4-32 4-32 9-14 Data transfer rate 24 Mytre/sec. 24 Mytre/sec. 900K3/sec. Data runsfer rate 21 None Synchronous None None Yes Sinchronous None Yes Ethernet Type of LAN supported Wes 200K1/sec. Type of LAN supported Ethernet Type of LAN supported 80MB-1GB Fixed and removable: 270K3-404MB Fixed and removable: Serial printers 30-180 ops 180 ops 180 ops 180 ops 50-100 bm Serial printers 30-180 ops 180 ops 180 ops 180/1600 bpi Strasming tape drives 1800/1600 bpi None 180/1600 bpi None Strasming tape drives 1800/1600 bpi None 180/1600 bpi None Cherta prayhers subjert Merro C, Fortran-77, Pascal Metaroid and engineer	INFOT/OUTPUT CONTROL	1		1.00	
Data transfer rate 2M bytes/sec. 2M bytes/sec. 900KB/sec. Max. number of lines 64 21 21 Max. number of lines 64 21 21 Asynchronous Sid. 19.2K bps Opr. 19.2K bps Opr. 19.2K bps Opr. 19.2K bps Protocols supported 2780/3780.0X.25. HDLC Type of LAN supported Element None None None None RE terminals envirolation 270K-3404MB Bemovable. 270K-3404MB Bemovable. 270K-3404MB Bemovable. 50K-1000 [pm 300/480 [pm 30.180 cps 300/480 [pm 300/1600 bpi None No	No. of I/O channels		4-32	4-32	19-14
COMMUNCATIONS 64 21 Annumber of lines 64 Synchronous Asynchronous None None None None Synchronous Sid, 19 2K bps QUCP DUCP DUCP, 19 2K bps QUC, 19 3K bps Type of LAMS supported Ethernet None None None Z780/3780, X25, HDLC Type of LAMS supported Ethernet None None None Z780/3780, X25, HDLC BM 3270 ematition Ethernet None None None Z780/3780, X25, HDLC Disks supported 30-180 cps Fixed and removable: Z70K8-404MB S0-1600 cps HS-025 Straing inters 30-180 cps HS-025 None None None Strateming tape drives 500/1600 bpi Mone Mone None None None Other performats supported SoMB-1000 pti A5 ips; 1600 bpi None None None None None SoftWARE Somboling supported SoMB-100 pti A5 ips; 1600 bpi None None None None None None None None	Data transfer rate	I	2M bytes/sec.	2M bytes/sec.	900KB/sec.
Max. multiple of lines 64 21 21 — — — — — Date of price of lines Opr. 19.2K bps	COMMUNICATIONS				
Market number of mines Varie Kome Anne An	Max number of lines	64	21	21	<u> </u>
Synchronous None None None Opt: 19.2K bps Opt: 19.		News	Name	L I	
Asynchronous Sid: 19.2K bps Opt:: 19.2K bps UUCP Dir.: 19.2K bps UUCP Type of LAN supported – – – 2708/3780 Z570, 258, HDLC Type of LAN supported – – – – 2708/3780 Z570, 258, HDLC BM 3270 eminative minate emulated – – – – 2708/3780 Xes BM 3270 eminative minate emulated – – – – 2708/3780 Xes BM 3270 eminative minate emulated – – – – 2708/3780 Xes Serial printers 800/B-108 Fixed and removable: Fixed and removable: ZorkB-404MB 30-108 ops Sorial printers 30-180 ops 180 ops 180 ops 30-108 ops 30-108 ops Streaming tape drives 300-1500 lpm 45 ips: 1600 bpi None 800/1600 bpi 800/1600 bpi SofTWARE Assembler C, Fascal M 68000 C, Fortran-77, Pascal M 68000 Basic, Fortran, Pascal Operating syst. – – – None None None Principal industry application – – None None None Operating syst. – None None	Synchronous	INONE	ivone	INONE	Opt., 9.6K bps
Protocols supported UUCP UUCP 2780/3780, X.25, HDLC Type of LAN supported Ethermet None 2780/3780, X.25, HDLC RE terminals emulated 2780/3780, X.25, HDLC IBM 3270 emulation 2780/3780, X.25, HDLC Serial printers 30-160 pm 270K8-404MB Fixed and removable: 270K8-404MB Fixed, and removable: 270K8-404MB Fixed, 16MB-404MB Serial printers 30-1500 pm 450 ps 100 cps 30-100 pm Streaming tape drives 300-1500 pm 400/480 pm 400/480 pm 400/140 pm Coher performance 800/1600 bpi 45 ips; 1000 bpi None None None Streaming tape drives 20MB-100MB 60 ips Terminals, graphics dis. Diakettes, plotters, tablets Diakettes, plotters, tablets Ofter performance Macro M 68000 C, Fortran-77, Pascal M 68000 Macro (Compliers Macro (Compliers, tablets Macro (Compliers, tablets, tablets <td>Asynchronous</td> <td>Std.; 19.2K bps</td> <td> Opt.; 19.2K bps</td> <td>Upt.; 19.2K bps</td> <td> Opt., 19.2K bps</td>	Asynchronous	Std.; 19.2K bps	Opt.; 19.2K bps	Upt.; 19.2K bps	Opt., 19.2K bps
Type of LAN supported RE terminals emulated IPM 3270 emulation PENPHERAL EQUIPMENT Disks supportedEhemet - -None - - -None - - -None - - -None - - -None - - -None - - -None - - -None - - -None - - -None - - - -None - - - -None - - - -None - - -None - - - -None - - - -None - - - -None - - - -None - - - -None - - - -None - - - -None - - - -None - - - -None - - - - - -None - 	Protocols supported		UUCP	UUCP	2780/3780, X.25, HDLC
Type of CAW supported Cheffet Note Point Point <t< td=""><td>Turne of LAN supported</td><td>Ethornot</td><td>None</td><td>Nene</td><td>Nego</td></t<>	Turne of LAN supported	Ethornot	None	Nene	Nego
H2 Errminals emulated - - - 2780/3780 BM 3270 emulation - - - Yes PERIMERAL EQUIPMENT 50MB-1GB Fixed and removable: 270(8-404MB 270(8-0010) 270(8-404MB 270(8-0010) 270(8-404MB 270(8-0010)	Type of LAN supported	Ethemet	None	None	None
IBM 3270 emulation - - - Yes PRINHERAL COLUMENT 80MB-1GB Fixed and removable: Fixed and removable: Fixed and removable: 270KB-404MB Sarial printers 30-180 cps 180 cps 180 cps 180 cps 30-108 cps Line printers 300-1500 ipm 400/480 ipm 40/480 ipm 40 cps Streaming tape drives 1800 bpi 1800 cps 45 ips: 1600 bpi 800/1600 bpi Streaming tape drives 1800 bpi None 800/1600 bpi None SofTWARE Assembler C, Fascal C, Fortran-77, Pascal M 68000 C, Fortran-77, Pascal Operating system Mecro M 68000 C, Fortran-77, Pascal M 68000 M 68000 Resittine Other packages - - None None None None None Mochanical and engineer- ing design Software engineering Software engineering None None Mo. maintenance of basic configuration Date of first delivery March 1985 Not available Not available Also available with single-user standonce Mo. maintenance of basic configuration Date of first delivery March 1985 Not available Not available Mo. maintenance of basic configuration Date of first delivery	RJE terminals emulated	-			2780/3780
PERIPHERAL EQUIPMENT BoMB-1GB Fixed and removable: Z70KB-404MB Z70KB-404MB <td>IBM 3270 emulation</td> <td> —</td> <td><u> </u></td> <td> <u> </u></td> <td>Yes</td>	IBM 3270 emulation	—	<u> </u>	<u> </u>	Yes
Disks supported BOMB-1GB Fixed and removable: 270KB-404MB Fixed and removable: 270KB-404MB Fixed,	PERIPHERAL EQUIPMENT				
Dote to Determines Control to Determines 27048-404MB 12008-404MB 180 cps None Serial printers 30-180 cps 180 cps 180 cps 40 cps Line printers 30-180 cps None None None Bettor cell tape drives 300-180 lpm 400/480 lpm 40 cps Streaming tape drives 300-180 lpm 400/480 lpm 40 cps Check cell tape drives 2001/160 lpi None None Other perpherals supported 180 cps None None Operating system C, Fortran-77, Pascal Mechanical and engineer- None Operating system C, Pascal HP-UX multi -user,-prog. None Macro / 1000 Database management system None None None None Principal Industry application None None None Principal Industry application None None None Moreat registerming system configuration and price Contact vendor Modular computer with keyboard & graphics configuration and price Contact vendor Modular computer with keyboard & graphics configuration and price E-Series CPU, 256KB Mo. maintenance of basic configuration 16 MB disk/tape, 16 oc cps Site 5	Disks supported	80MB-1GB	Fixed and removable	Fixed and removable:	Fixed 16MB-404MB
Serial printers 30-180 cps 180 cps 180 cps 30-108 cps Latter quality printers 30-108 cps 180 cps 180 cps 30-108 cps Latter quality printers 30-108 cps 180 cps 180 cps 400/480 lpm Latter quality printers 30-108 cps 400/480 lpm 400/480 lpm 400/480 lpm Streaming tape drives 1000 bpi 45 ips; 1600 bpi 5 ips; 1600 bpi 800/1600 bpi Cassetter/carridge tape drives 1000 bpi None None None Other performals supported 20MB-100MB 0 ips Terminals, graphics dis. plotters, tablets Disketters, plotters, graphics dis. Operating system C, Pascal C, Fortran-77, Pascal M 68000 Macro None Other performance C, Pascal None None None Macro None Principial industry application — None None None None Mechanical and engineer- Image 1000 Principial industry application — — None None Software engineering Soft	Diska supported		270KB ADAMB	270KB 404MB	Bemaushin FOMD 404MD
Serial printers 30-180 cps 180 cps 180 cps 30-0108 cps Liter quality printers 45 cps None None 40 cps Liter quality printers 300-1500 tpm 40 (ps 40 cps Streaming tape drives 800/1600 bpi 45 ips; 1600 bpi 45 ips; 1600 bpi Streaming tape drives 1600 bpi None None None Cher perpherals supported 1600 bpi None None None SOFTWARE Assembler Macro K 68000 M 68000 M 68000 Macro/1000 Compilers C, Fortran-77, Pascal Macro/1000 Basic, Fortran, Pascal Operating system Genixime, batch HP-UX multi -user,-prog. None Macro/1000 Database management system None None None None Principal industry application None None None Principal industry application None None None Mo. maintenance of basic configuration and price Contact vendor Modular computer with keyboard & graphics Integrated workstation computer with graphics Number installed to date March 1985 Nor aniable Not aniable Stife None March 1985 Nor aniable	0 • • • • •	00 100	27008-4041010	270KB-404WIB	Inelliovable, Solvib-404ivib
Letter quality printers 45 cps None None 40 cps Letter quality printers 300-1500 (pm 400/480 (pm 45 (ps; 1600 bpi 45 (ps; 1600 bpi 800/1600 bpi Reet-or-relit tape drives 1600 bpi None None None None Cassette/cartridge tape drives 1600 bpi None None None None Corter perpharels supported 20MB-100MB Terminals, graphics dis. Distexters, plotters, tablets Distexters, plotters, tablets 20FTWARE Macro M 68000 M 68000 M 68000 Macro 1000 Compilers Genixime, batch HP-UX multi -user,-prog. None Macro 1000 Detrating system None None None None Principal industry application — None None None Principal industry application — Modelar computer with keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cps Software engineering Software engineering Mo. maintenance of basic configuration and price — Macro 1985 December 1983 Not available Mo. maintenance of basic configuration — — ASMB, C, Fortran, Pascal Software engineering Sits5 Date of first elivery Macro 1985 S188	Serial printers	30-180 cps	180 cps	180 cps	30-108 cps
Line printers 300-1600 lpm 400/480 lpm 400/480 lpm 250-1000 lpm 250-1000 lpm 250-1000 lpm 800/1600 bpi 1600 bpi 175 liss; 1600 bpi 1800/1600 bpi 1000 lpm 1600 bpi 1000 lpm 1600 bpi 1000 lpm 1600 lpm lpm 16	Letter quality printers	45 cps	None	None	40 cps
Reel-co-reel tape drives Streaming tape drives 800/1600 bpi 100 bpi 20MB-100MB 45 ips: 1600 bpi 60 ips Terminals, graphics dis. 800/1600 bpi None 800/1600 bpi None SoFTWARE Assembler Compilers Macro C, Pascal Macro C, Pascal M 68000 M 68000 M 68000 Macro/1000 Basic, Fortran, Pascal Operating system Operating system Database management system Principal industry application Genixime, batch Mone HP-UX multi -user,-prog. None HP-UX multi -user,-prog. None HP-UX multi -user,-prog. None HP-UX multi -user,-prog. None Realtime 	Line printers	300-1500 lpm	400/480 lpm	400/480 lpm	250-1000 lpm
Non-maintenance of basic configuration Contact vendor Macro None None None None Operating system Genixime, batch More None None None Operating system Genixime, batch None None None None Operating system Genixime, batch None None None None Operating system Genixime, batch None None None Operating system Genixime, batch None None None Other packages — None None None Other packages — None None None Other packages — None None None Philosophi disk tape, 1000 More More None Other packages — None None None Philosophi disk tape, 1800 More None None None Mo. maintenance of basic configuration — Contact vendor Modular computer with keyboard & graphics disktape, 1800 cps printer, 7 Pascal Integrated workstation computer with graphics disktape, 1800 cps printer, 1812,00 \$130 Number installed to date March 1985 Not available Not available Number installed to	Beel-to-reel tane drives	800/1600 bpi	45 ins 1600 boi	45 ins 1600 boi	800/1600 bpi
Sitearning upp drives Cassette/oraridge tape drives Other perpherais supportedIbot upp and the supportedNone terminals, graphics dis. plotters, tabletsNone terminals, graphics dis.None terminals, graphics dis.<		1600 hai	None	None	Nana
Cassette/carticides tage drives Other perpharials supported SOFTWARE Assembler Compilers Macro Macro Compilers Mone Mechanical and engineer- ing design Molular computer with keyboard & graphics Software engineering Molular computer with keyboard & graphics Software engineering Software engineering	Streaming tape drives	1800 bpi	INONE	None	INONE
Other perpherals supported Terminals, graphics dis. Diskettes, plotters, sublets Diskettes, plotters, graphics dis. Diskettes, plotters, disket, graphics disket, graphics disket, plotters, disket, graphics disket, graphics disket, graphics disket, disket, plotters, tablet Disket, graphics disket, graphics disket, graphics disket, graphics, disket, graphics, disket, graphics, disket, grap	Cassette/cartridge tape drives	20MB-100MB	60 ips	60 ips	None
DortwaRE Assembler Macro C, Pascal Macro Computer with Replayer MB memory, 65 MB disk/tape, 180 coperating System, Asmb, C, Fortran Computer with graphics E-Series CPU, 256KB memory, 0perating System, Asmb, C, Fortran Software engineering E-Series CPU, 256KB memory, 0perating System, Asmb, C, Fortran Software engineering S155 Mo. maintenance of basic configuration Date of first delivery Number installed to date Macro 1985 Macro 1985 S155 December 1983 Not available Macro 1985 Not available with single-user standalone Basic and Pasca	Other perpherals supported		Terminals, graphics dis.	Terminals, graphics dis.	Diskettes, plotters,
SOFTWARE Assembler Macro C, Pascal M 68000 M 68000 M 68000 M coro C, Pascal M 68000 C, Fortran-77, Pascal Macro 1000 Operating system Genixime, batch HP-UX multi -user,-prog. No No No No None M echanical and engineer- ing design HP-UX multi -user,-prog. No No None Maufacturing, engineering Imegrated workstation			plotters, tablets	plotters, tablets	graphics tablet
Assembler Macro M 68000 C, Fortran-77, Pascal M 68000 C, Fortran-77, Pascal Macro/1000 Operating system Genixime, batch HP-UX multi -user,-prog. No Mechanical and engineer- None None Principal industry application — None None None None None Principal industry application — Software engineering Software engineering Software engineering Software engineering Software engineering Software engineering Realtime Image/1000 YRICING & AVAILABILITY Basic system configuration and price Contact vendor Modular computer with keyboard & graphics Integrated workstation Integrated workstation Software engineering Software engineering Software engineering System, Arab, C, Fortran-Rability, 101 (Jo ports	SOFTWARE			1	0
Assentioned Compilers In Boodor C, Pascal In Boodor C, Fortran-77, Pascal In Boodor C, Fortran-77, Pascal In Boodor C, Fortran-77, Pascal In Boodor C, Fortran-77, Pascal Basic, Fortran, Pascal Operating system Operating system Database management system Principal industry application Genixime, batch HP-UX multi -user,-prog. No HP-UX multi -user,-prog. No HP-UX multi -user,-prog. No Realtime Other packages Modular computer with keyboard & graphics display, TMB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—S49, 156 Integrated workstation computer with graphics display, TMB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—S49, 156 E-Series CPU, 256KB memory. operating system, ASmb, C, Fortran, Pascal languages S130 E-Series CPU, 256KB memory. operating system, ASmb, C, Fortran, Pascal languages systems. E-Series CPU, 256KB memory. operating system, ASmb, C, Fortran, Pascal language systems. Mo. ma	Accomplor	Macro	M 68000	M 69000	Magro /1000
Compliers C, Fascal C, Fortrah-77, Fascal C, Fortrah-77, Fascal Desite, Fortrah, Fascal Desite, Fortrah, Fascal Operating system Genixime, batch HP-UX multi -user,-prog. HP-UX multi -user,-prog. None Database management system — None None None None Principal industry application — None None Mechanical and engineer- Ing design Software engineering Manufacturing, engineering, measurement Victored & AVAILABILITY Basic system configuration and price Contact vendor Modular computer with keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cps printer, 31 errninals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156 Integrated workstation computer with graphics display, 1MB memory, 05 Printer, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156 \$138 \$23,750 Mor. maintenance of basic configuration — March 1985 December 1983 Not available Not available Not available Xiso available with single-user standalone Basic and Pascal language systems. \$155 December 1983 Not available	Assemble	C Breed	C Fertrer 77 Percel	C Fortrag 77 Bassal	Desis Fertrer Deseal
Operating system Operating system Database management system Principal industry applicationGenixime, batch — NoneHP-UX multi -user,-prog. No NoneHP-UX multi -user,-prog. No NoneRealtime — Image/ 1000Other packages——Mochanical and engineer- ing design Software engineeringHP-UX multi -user,-prog. NoneHP-UX multi -user,-prog. NoneHP-UX multi -user,-prog. NoneHP-UX multi -user,-prog. NoneHP-UX multi -user,-prog. NoneHP-UX multi -user,-prog. NoneHP-UX multi -user,-prog. Mochanical and engineer- ing designHP-UX multi -user,-prog. NoneHP-UX multi -user,-prog. MoneHP-UX multi -user,-prog. <td>Compliers</td> <td>C, Pascal</td> <td>C, Fortran-77, Pascal</td> <td>C, Fortran-77, Pascal</td> <td>Basic, Fortran, Pascal</td>	Compliers	C, Pascal	C, Fortran-77, Pascal	C, Fortran-77, Pascal	Basic, Fortran, Pascal
Operating system Genixime, batch HP-UX multi -user,-prog. No HP-UX multi -user,-prog. No HP-UX multi -user,-prog. No Realtime					
Operating sys. implemented in firmware Database management system No No No No No Database management system None Non	Operating system	Genixime, batch	HP-UX multi -user,-prog.	HP-UX multi -user,-prog.	Realtime
Database management system Principal industry applicationNone Mechanical and engineer- ing designNone Mechanical and engineer- ing designNone Mechanical and engineer- ing designImage/ 1000 Manufacturing, engineering, eng	Operating sys. implemented in firmware	I	No	No	<u> </u>
Principal industry application — Mechanical and engineering Machanical and engineering Machanical and engineering Machanical and engineering Manufacturing, measurement Manufacturing, measurement Software engineering Manufacturing, measurement Manufacturing, process Control yraphics display, 1MB memory, 65 MB disk/tape, 180 ops printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—s49,156 Integrated workstation computer with graphics display, 1MB memory, 16 MB disk/tape, 160 ops printer, 31200 E-Series CPU, 256KB memory, 65 MB disk/tape, 180 ops system, ASMB, C, Fortran, Pascal languages—s49,156 E-Series CPU, 256KB memory, 65 MB disk/tape, 180 ops system, 10 1/O ports—\$23,750 Mo. maintenance of basic configuration Date of first delivery — March 1985 — \$130 \$155 Number installed to date	Database management system	None	None	None	Image/1000
Principal industry application—Integrate and engineer- ing designIntegrate and engineer- ing designIntegrated workstation computer with keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cpsIntegrated workstation computer with graphics display, 1MB memory, 16 MB disk/tape, 160 cps printer, 17 LVD operating system, Asmb, C, Fortran Pascal languages 	Principal industry application		Mechanical and engineer	Machanical and anairea	Manufacturin
Other packagesIng designing designengineering, measurementOther packagesSoftware engineeringSoftware engineeringSoftware engineeringSoftware engineeringengineering, measurementPRICING & AVAILABILITYBasic system configuration and priceContact vendorModular computer with keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages=\$49,156Integrated workstation computer with graphics display, 1MB memory, 16 MB disk/tape, 160 cps printer, HP-UX operating system, ASMB, C, Fortran, Pascal languages=\$49,156Integrated workstation computer with graphics display, 1MB memory, 16 MB disk/tape, 160 cps printer, HP-UX operating system, ASMB, C, Fortran, Pascal languages=\$49,156Integrated workstation computer with graphics system, ASMB, C, Fortran, Pascal languages=\$49,156Software engineeringE-Series CPU, 256KB memory, operating system, 10 I/O ports- \$23,750Mo. maintenance of basic configuration Date of first delivery Number installed to date 20MMENTS\$198December 1983 Not available Also available with single-user standalone Basic and Pascal language systems.December 1983 Instrandalone Basic and Pascal language systems.Not available vith single-user standalone Basic and Pascal language systems.*155 Poecember 1981 Not available with single-user standalone Basic and Pascal language systems.*16 MB disk/tape, 180 cps printer, HP-UX operating vith single-user standalone Basic and Pascal language systems.*16 MB disk/tape, 180 cps printer, HP-UX operating	Francipal industry application	I	ivectatical and engineer-	iviechanical and engineer-	ivianuiacturing,
Other packages—Software engineeringSoftware engineeringManufacturing, process control, graphicsPRICING & AVAILABILITY Basic system configuration and priceContact vendorModular computer with keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156Integrated workstation computer with graphics display, 1MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156Integrated workstation computer with graphics display, 1MB memory, estem, ASMB, C, Fortran Pascal languages \$130E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750Mo. maintenance of basic configuration Date of first delivery COMMENTS—March 1985December 1983 Not available Also available Also available anguage systems.Not available Also available Also available anguage systems.Not available Also available with single-user standalone Basic and Pascal language systems.Not available Also available with single-user standalone Basic and Pascal language systems.%			ing design	ing design	engineering, measurement
PRICING & AVAILABILITY Basic system configuration and price Contact vendor Modular computer with keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, 10 I/O ports— E-Series CPU, 256KB memory, 65 MB disk/tape, 180 cps printer, HP-UX operating system, 10 I/O ports— \$ 16 MB disk/tape, 160 cps printer, HP-UX operating system, 10 I/O ports— \$ 23,750 Mo. maintenance of basic configuration Date of first delivery March 1985 December 1983 December 1983 December 1983 Not available Not available Also available with single-user standalone Basic and Pascal language systems. Also available with single-user standalone Basic and Pascal language systems. Single-user standalone Basic and Pascal language systems. The specific combination of communications interfaces and/or peripheral devices attached.	Other packages	—	Software engineering	Software engineering	Manufacturing, process
PRICING & AVAILABILITY Basic system configuration and price Contact vendor Modular computer with keyboard & graphics display, 1MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156 Integrated workstation computer with graphics display, 1MB memory, 16 MB disk/tape, 160 cps printer, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156 Integrated workstation computer with graphics display, 1MB memory, 05 MB disk/tape, 180 cps printer, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156 Issee the system configuration printer, HP-UX operating system, ASMB, C, Fortran, Pascal languages \$155 Date of first delivery March 1985 December 1983 Not available Stas December 1983 Not available COMMENTS March 1985 Inguage systems. Not available anguage systems. Also available with single-user standalone Basic and Pascal language systems. Stas combination of communications interfaces and/or peripheral devices attached.					control, graphics
Basic system configuration and priceContact vendorModular computer with keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156Integrated workstation computer with graphics display, 1MB memory, 16 MB disk/tape, 160 cps printer, HP-UX operating system, Asmb, C, Fortran Pascal languages -\$31,200E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750Mo. maintenance of basic configuration Date of first delivery Number installed to date 20MMENTS—March 1985 mDecember 1983 Not available Also available anguage systems.Not available assic and Pascal language systems.Not available assic and Pascal language systems.%155 December 1983 Not available assic and Pascal language systems.December 1983 Not available assic and Pascal language systems.Not available more standalone Basic and Pascal language systems.%16 memory, 0perating system, Asmb, C, Fortran Pascal languages the specific combination of communications interfaces and/or peripheral devices attached.%180 more standalone Basic and Pascal language systems.%155	PRICING & AVAILABILITY				
Dasic system comparator and price computer vint medual computer vint memory, computer vint graphics computer vint graphics memory, operating display, 2MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, system, 10 I/O ports— \$23,750 Mo. maintenance of basic configuration — \$198 printer, 7 aterminals, system, 2000 \$155 Date of first delivery March 1985 — \$198 \$130 \$155 December 1983 December 1983 Not available Not available Not supplied *Maximum dependent on Single-user standalone Basic and Pascal language systems. alanguage systems. interfaces and/or periptical devices attached.	Basic system configuration and price	Contact vendor	Modular computer with	Integrated workstation	E-Series CPLL 256KP
Keyboard & graphics display, 2MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156computer with graphics display, 1MB memory, 16 MB disk/tape, 160 cps printer, HP-UX operating system, Asmb, C, Fortran Pascal languages \$130memory, system, 10 I/O ports— \$23,750Mo. maintenance of basic configuration Date of first delivery Number installed to date 20MMENTS—\$198\$130\$155December 1983 Number installed to date 20MMENTS—March 1985 Hascal languages availableDecember 1983 Not available and pendent on single-user standalone Basic and Pascal language systems.Not available asingle-user standalone Basic and Pascal language systems.Not available memory, 10 I/O ports— system, Asmb, C, Fortran Pascal languages memory, 10 I/O ports— \$23,750	basic system configuration and price			integrated workstation	E-Selles CFU, 250KB
Mo. maintenance of basic configuration Date of first delivery Number installed to date—display, 2MB memory, 65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156disk/tape, 180 cps printer, HP-UX operating system, ASMB, C, Fortran, Pascal Pascal languages \$31,200system, 10 I/O ports— \$23,750Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS—March 1985December 1983 Not availableDecember 1983 Not available Also available with single-user standalone Basic and Pascal language systems.December 1983 not availableDecember 1981 Not supplied *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices attached.			keyboard & graphics	computer with graphics	memory, operating
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS—65 MB disk/tape, 180 cps printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,15616 MB disk/tape, 160 cps printer, HP-UX operating system, Asmb, C, Fortran Pascal languages —\$31,200\$155March 1985December 1983 Not available Also available with single-user standalone Basic and Pascal language systems.\$155Dot available and pascal alaguage systems.December 1983 more standaloneNot available single-user standalone Basic and Pascal language systems.Not suppliedMarch 1985—Not available alaguage systems.Not available alaguage systems.Not suppliedMarch 1985—Not available alaguage systems.Not available alaguage systems.Not suppliedMarch 1985—Not available alaguage systems.Not available alaguage systems.Not suppliedMaximum dependent on single-user standalone language systems.Ianguage systems.interfaces and/or peripheral devices attached.			display, 2MB memory,	display, 1MB memory,	system, 10 I/O ports—
Mo. maintenance of basic configuration Date of first delivery Number installed to date—printer, 3 terminals, HP-UX operating system, ASMB, C, Fortran, Pascal languages—\$49,156 \$198printer, HP-UX operating system, Asmb, C, Fortran Pascal languages —\$31,200\$155 December 1983 Not availableMarch 1985 COMMENTSDecember 1983 Also available language systems.December 1983 Not available Also available with single-user standalone Basic and Pascal language systems.December 1983 Not available Also available with single-user standalone Basic and Pascal language systems.Not supplied			65 MB disk/tape, 180 cps	16 MB disk/tape, 160 cps	\$23,750
Mo. maintenance of basic configuration — \$198 \$198 \$130 \$155 Date of first delivery March 1985 December 1983 December 1983 December 1983 December 1983 COMMENTS March 1985 December 1983 Not available Not available Not available Not available Not supplied Also available and pascal language systems. Inguage systems. Inguage systems. Inguage systems. Inguage systems. Inguage systems.		l	printer, 3 terminals	printer, HP-UX operating	1
Mo. maintenance of basic configuration Date of first delivery—ASMB, C, Fortran, Pascal languages—\$49,156Pascal languages -\$31,200Sti55Number installed to date COMMENTSMarch 1985December 1983December 1983December 1983December 1983Number installed to date COMMENTS—Not available single-user standalone language systems.Not availableNot available single-user standalone language systems.Not supplied			HP-IIX operating system	evetern Acmh C Forter-	1
Mo. maintenance of basic configuration Date of first deliveryMarch 1985Pascel languages (1 anguages) (1 anguages) (1 anguages) (1 anguages)Pascal languages (1 anguages) (1 anguages) (1 anguages) (1 anguages)Pascal languages (1 anguages) (1 anguages) (1 anguages)Pascal languages (1 anguages) (1 anguages) (1 anguages)Pascal languages (1 anguages) (1 anguages) (1 anguages)Pascal languages (1		1	A ONAD O F	ayatem, Aamo, C, Fortran	1
Mo. maintenance of basic configuration Date of first delivery—languages—\$49,156 \$198—\$130\$155March 1985December 1983December 1983December 1983December 1983Number installed to date—Not availableNot availableNot suppliedCOMMENTS——Also available with single-user standalone Basic and Pascal language systems.Also available with single-user standalone Basic and Pascal language systems.Mot supplied			ASMB, C, Fortran, Pascal	rascal languages	1
Mo. maintenance of basic configuration — \$198 \$130 \$155 Date of first delivery March 1985 December 1983 Not available Not available Not available Not supplied 20MMENTS — Also available with single-user standalone Also available mither standalone Saic and Pascal Basic and Pascal Basic and Pascal Interfaces and/or peripheral devices attached.			languages—\$49,156	\$31,200	
Date of first delivery March 1985 December 1983 December 1983 December 1983 Number installed to date — Also available Also available with single-user standalone Also available with single-user standalone Basic and Pascal language systems. Basic and Pascal Insquage systems. Insquare systems. Insquare systems. Insquare systems. Insquare systems. Insquare systems. Insquare systems. Instance second/or Insquare systems. Instance second/or Instance second/or <td>Mo, maintenance of basic configuration</td> <td>I—</td> <td>\$198</td> <td>\$130</td> <td>\$155</td>	Mo, maintenance of basic configuration	I—	\$198	\$130	\$155
Dumber installed to date Muther root Deterinder root Deterinder root Deterinder root Number installed to date — Not available Not available Not available Not available COMMENTS Also available with single-user standalone Also available with Basic and Pascal Not available Not available Not available Ianguage systems. Ianguage systems. Ianguage systems. Ianguage systems. Interfaces and/or peripheral devices attached.	Date of first delivery	March 1985	December 1983	December 1983	December 1991
number installed to date Not available Not available Not supplied COMMENTS Also available with single-user standalone Also available with single-user standalone Not supplied Basic and Pascal language systems. Basic and Pascal language systems. Basic and Pascal language systems. Not supplied			Net available	Net available	
COMMENTS Also available with single-user standalone Basic and Pascal Also available with single-user standalone Basic and Pascal *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices attached.		I—	NOT AVAIIADIE	INUT AVAIIADIE	Ivot supplied
single-user standalone Basic and Pascal language systems.	COMMENTS	1	Also available with	Also available with	*Maximum dependent on
Basic and Pascal language systems. Basic and Pascal language systems. Basic and Pascal language systems. attached.		1	single-user standalone	single-user standalone	the specific combination
language systems. language systems. language systems. attached.			Basic and Pascal	Basic and Pascal	of communications
language systems. language systems. Interfaces and/or peripheral devices attached.		1			interference and the
peripheral devices attached.		1	language systems.	panguage systems.	Interfaces and/or
attached.		1	I	1	peripheral devices
				1	attached.
			1		
		1		1]

MANUFACTURER AND MODEL	Hewlett-Packard Co. HP 1000 Micro 26	Hewlett-Packard Co. HP 1000 Micro 27	Hewlett-Packard Co. HP 1000 Micro 29	Hewlett-Packard Co. HP 1000 Model 26
WORD LENGTH	16 bits	16 bits	16 hits	16 hite
MAIN MEMORY	512KB-8MB	512KB-8MB	768KB-6MB	512KB-8MB
DISK STORAGE CAPACITY	10MB-10GB	10MB-10GB	10MB-10GB	16MB-50GB
NO. WORKSTATIONS SUPPORTED	•	•	•	*
PRICE RANGE	\$16,240-\$32,000	From \$14,000	From \$24,600	From \$16,000
TARGET MARKET	Scientific/Technical	Scientific/Technical	Scientific/Technical	Scientific/Technical
CENTRAL PROCESSOR				
CPU manufacturer and model	HP A600	HP A700	HP A900	HP A600+
Hardware floating point	None	Double	Double	No
Battery backup	Opt.	Opt.	Opt.	Opt.
Real-time clock or timer	None	<u> -</u>	<u> </u>	
CPU cycle time, nanoseconds		<u> </u>	I	
MAIN STORAGE				
Bytes fetched per cycle	2	2	4	2
Memory access			—	I
Cycle/access time, nanoseconds	454	500	181	454
Storage protection	Std.	Std.	Std.	Std.
Increment size, bytes	128K	128K, 256K, 512K, 1M	768K/1.5MB/3MB	128K/256K/512K/1M
Cache memory, bytes	None	None	4K	None
INPUT/OUTPUT CONTROL			1	
No. of I/O channels	14	12	11	18
Data transfer rate	900KB/sec.	4.27MB/sec.	900K bytes/sec.	4.27MB/sec.
COMMUNICATIONS		1		
Max. number of lines		I—	I	I—
Synchronous	Opt., 57.2K bps	Opt., 57.6K bps	Opt., 57.2K bps	Opt., 57.2K bps
Asynchronous	Opt., 19.2K bps	Opt., 19.2K bps	Opt., 19.2K bps	Opt., 19.2K bps
Protocols supported	2780/3780, X.25, HDLC	2780/3780, X.25, HDLC	2780/3780, X.25, HDLC	2780/3780, X.25, HDLC
Type of LAN supported	None	None	None	None
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Fixed, 16MB-404MB	Fixed, 16MB-404MB	Fixed: 16MB-404MB	Fixed, 16MB-404MB
	Removable, 50MB-404MB	Removable, 50MB-404MB	Removable: 50MB-404MB	Removable, 50MB-404MB
Serial printers	30-108 cps	30-108 cps	30-108 cps	30-108 cps
Letter quality printers	40 cps	40 cps	40 cps	40 cps
Line printers	250-1000 lpm	250-1000 lpm	250-1000 lpm	250-1000 lpm
Reel-to-reel tape drives	800/1600 bpi	800/1600 bpi	800/1600 bpi	800/1600 bpi
Streaming tape drives	None	None	None	None
Cassette/cartridge tape drives	None	None	None	None
Other perpherals supported	Diskettes, plotters,	Diskettes, plotters,	Diskettes, plotters,	Diskettes, plotters
·····	graphics tablet	graphics tablet	graphics tablet	graphics tablet
SOFTWARE	3	3	3p	3
Assembler	MACRO/1000	MACRO/1000	MACRO/1000	MACBO/1000
Compilers	Basic, Fortran, Pascal	Basic, Fortran, Pascal	Basic, Fortran, Pascal	Basic, Fortran, Pascal
Operating system	Realtime	Realtime	Realtime	Realtime
Operating sys. Implemented in firmware	 Image (1000			
Database management system	Manufacturia -	Image/1000	Image/1000	Image/1000
runcipal industry application	ivianutacturing,	ivianutacturing,	ivianutacturing,	ivianutacturing,
	engineering, measurement	engineering, measurement	engineering, measurement	engineering, measurement
Other packages	iving., process control,	INITG., process control,	Mitg., process control,	Mitg., process control,
	graphics	graphics	graphics	graphics
		1		
PRICING & AVAILABILITY				
Basic system configuration and price	CPU, 512KB memory,	CPU, RIE-A operating	CPU, RTE-A operating	CPU, RTE-A operating
	operating system, 10	system, 512KB memory,	system, 768KB ECC	system, 512KB memory,
	1/0 ports; \$ 10,000	512KB memory, 8	memory, / available	16 available I/O
		available I/O channels-	1/U channels\$24,600	channels\$16,240
		15 13, 100		
Mo. maintenance of basic configuration	\$61	\$57	\$85	\$67
Date of first delivery	August 1983	August 1983	August 1983	March 1982
Number installed to date	Not supplied	Not supplied	Not supplied	Not supplied
COMMENTS	*Maximum dependent on	*Maximum dependent on	*Maximum dependent on	*Maximum dependent on
	the specific combination	the specific combination	the specific combination	the specific combination
	of communications	of communications	of communications	of communications
	interfaces and/or	interfaces and/or	interfaces and/or	interfaces and/or
	peripheral devices	peripheral devices	peripheral devices	nerinheral devices
,		Porhierar devices	Porprisial devices	peripitetal devices
	attached	attached	lattached	attached
	attached.	attached.	attached.	attached.
	attached.	attached.	attached.	attached.
	attached.	attached.	attached.	attached.

MANUFACTURER AND MODEL	Hewlett-Packard Co. HP 1000 Model 27	Hewlett-Packard Co. HP 1000 Model 29	Hewlett-Packard HP 3000 Series 37	Hewlett-Packard HP 3000 Series 42
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
	512KB-8MB	768KB-24MB	512KB-2MB	1MB-3MB
DISK STORAGE CAPACITY	16 5MB-50GB	16 5MB-50GB	2 1GB	28MB-3.2GB
NO WORKSTATIONS SUPPORTED	•	*	28	92
NU. WURKSTATIONS SUFFORTED	5 \$24,000	From \$24,000	Erom \$19.950	Erom \$42,400
	From \$24,000	Coloration (Technical	Profil \$19,950	Proin \$42,400
TARGET MARKET	Scientific/Technical	Scientific/ Lechnical	Business/Commercial	Business/Commercial
CENTRAL PROCESSOR				
CPU manufacturer and model	HP A700	HP A900	Proprietary	Proprietary
Hardware floating point	Double	Double	Single extended prec	Double
Patton bookup	Opt	Ont	Std	Std
Ballery backup	opt.	Opt.	Std.	Stu.
Real-time clock or timer	-		510.	510.
CPU cycle time, nanoseconds	1—	-		_
MAIN STORAGE			_	
Bytes fetched per cycle	2	4	2	
Memory access				<u> </u>
Cycle/access time, nanoseconds	500	181	170	430
Storage protection	Std	Std	Std	Std
	129K/256K/512K/1M	768K/1 5M/3M	512K	512K/1M
Casha mamanu buta	None		Nono	Nono
Cache memory, bytes	Inone	41	None	NORE
NPUT/OUTPUT CONTROL				
No. of I/O channels	16	15	3	2
Data transfer rate	4.27MB/sec.	4.27MB/sec.	1MB/sec.	1M byte/sec.
COMMUNICATIONS			1	
Max. number of lines	¹	I	3	3 sync
Synchronous	Opt 57 2K bos	Opt., 57.2K bos	Std.: 19.2K bos	Std.: 19.2K bps
Asynchronous	Opt 19 2K bps	Opt 19 2K bps	Ont 9 6K bne	Ont 9 6K bos
Asynchronous Protocolo oundente d	1001., 10.2K UPS	2700/2700 V 25 UDIO		
Frotocois supported	2100/3100, X.25, HULU	2100/3180, X.25, HULC	HULC/ SULC, A.25,	HULC/SULC, X.25,
			async, bysync, sync	RS-232-C, RS-422
Type of LAN supported	None	None	LAN IEEE 802.3	None
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	Yes	Yes	Yes	No
PERIPHERAL FOLIPMENT				
Disks supported	Fixed: 16MB-404MB	Fixed: 16MB-404MB	2 1GB	Winchester: 28-132MB
Disks supported	Demonship FOMD 404MD	Bamauahlar FOMP 404MP	2.100	Diek meeks EQ 404MP
0 • 1 • 1 •	Nerriovable. SOIVID-404IVID		10,000,000	DISK PACK. 50-4041016
Serial printers	30-108 cps	30-108 cps	40-200 cps	140-200 cps
Letter quality printers	40 cps	40 cps	25-40 cps	25-40 cps
Line printers	250-1000 lpm	250-1000 lpm	300-1000 lpm	300-1000 lpm
Reel-to-reel tape drives	800/1600 bpi	800/1600 bpi	45 ips-75 ips	45 ips-75 ips
Streaming tane drives	None	None	1600/6250 bpi	1600/6250 bpi
Cassatte /cartridge tape drives	None	None	10,000 bpi: 67MB	10,000 bpi: 67MB
Other nerrohenele supported	Diekettee plettere	Diskettee plattere	Dieketteen leeer	Diskattas, laser
Other perpherals supported	Diskettes, piotters,	Diskettes, piotters,	Diskettes, laser	Diskettes, laser
	graphics tablet	graphics tablet	printers, plotters	printers, plotters
SOFTWARE		1		
Assembler	Macro/1000	Macro/1000	Not supplied	
Compilers	Basic, Fortran, Pascal	Basic, Fortran, Pascal	Basic, Cobol, Pascal,	Basic, Cobol, Pascal,
			Fortran, RPG, SPL	Fortran, RPG, SPL
Operating system	Realtime	Real-Time	Realtime, multiprogr.	Realtime, batch
Operating sys. implemented in firmware		Not supplied) <u> </u>	<u> </u>
Database management system	Image/1000	Image/1000	Image/3000	Image/3000
Principal industry application	Manufacturing	Manufacturing	Manufacturing	Manufacturing
	engineering measurement	engineering measurement		
Other packages	Mfg process control	Mfg propose control	Distribution office	Distribution mat's 9
onier packages	mig., process control,	ning., process control,	Distribution, onice	
•	graphics	graphics	automation, financial,	prod. mgmt., graphics
	1]	sales	
PRICING & AVAILABILITY	1			
Basic system configuration and price	CPU, RTE-A operating	CPU, RTE-A operating	CPU, 512KB memory,	CPU, 1MB memory, 2
, , ,	system, 512KB memory,	system, 768KB ECC	55MB disk, 67MB	general I/O channels.
	bardware floating point	memory bardware	cartridge tane	disk caching operating
	processor 13 available	floating point	consolo and racking	systom \$42,400
	1/O abapacia #24.000	processor 12 events	console and lacking	3ystem
	1/0 cnanneis— \$24,000	processor, 13 available	Capinet	
		1/U channels—\$34,000		
	1			
Mo maintenance of basis configuration	\$72	690	\$110	\$250
No. maintenance of basic configuration	φ/2 Marsh 1000	December 1000	Ø119 Ostak av 1001	φ253 Desemble 1000
Date of first delivery		December 1982	October 1984	December 1983
Number installed to date	Not supplied	Not supplied	—	Not supplied
COMMENTS	*Maximum dependent on	*Maximum dependent on	1	
	the specific combination	the specific combination	1	
	of communications	of communications	1	
	interfaces and/or	interfaces and/or		
	perinheral devices	nerinheral devices	1	
	attached.	attached.		
	i	1		1

MANUFACTURER AND MODEL	Hewlett-Packard HP 3000 Series 48	Hewlett-Packard HP 3000 Series 68	Honeywell DPS 6/22	Honeywell DPS 6/40
	16 bito	16 bits	16 hite	16 hits
	IND AND			F 10KD 0040
				DIZKE-ZIVIE
DISK STORAGE CAPACITY	28MB-4.2GB	50MB-9.7GB	28MB-80MB	1GB
NO. WORKSTATIONS SUPPORTED	152	400	5	28
PRICE RANGE	From \$79,500	From \$186,000	From \$12,995	From \$27,000
TARGET MARKET	Business/Commercial	Business/Commercial		
CPU manufacturer and model	Proprietary	Proprietary	Proprietany	Proprietan
	Daubla	Daubla	Circle (deviate	
hardware libating point	Double	Double	Single/double	Single/double
Battery backup	Std.	Std.	None	Opt.
Real-time clock or timer	Std.	Std.	No	Std.
CPU cycle time, nanoseconds			270	250
MAIN STORAGE				
Bytes fetched per cycle			<u> </u>	2
Memory access	I			425
Cycle (access time parageands	430	124	1080	F00
Cycle/access time, nanoseconos	430	134	1080	1500
Storage protection	Std.	Std.	Std.	Std.
Increment size, bytes	1M	1M	256K/512K	256K
Cache memory, bytes	None	8K	None	None
INPUT/OUTPUT CONTROL		1	1	1
No. of I/O channels	5	15	10	3
Data transfor rate	1M byte/coo	56M butoP (and		ľ
	IN Dyte/sec.	SOIN DYLED/SEC.	1	I—
CONIVIUNICATIONS	I_	1	1	1_
Max. number of lines	7 sync	24 sync		28
Synchronous	Std.; 19.2K bps	Std.; 19.2K bps	Opt.	Opt.
Asynchronous	Opt.: 9.6K bps	Opt.: 9.6K bps	Std.	Std.
Protocols supported	HDIC/SDIC X 25	HDLC/SDLC X 25	BSC SDIC HDIC HASP	BSC SDLC HDLC HASE
	RS-232-C RS 422	PS 222 C PS 422	2700/2070 CNA TTV DOA	
Turne of LAN survey is t	No-202-0, NO-422	110-202-6, RO-422	2/00/30/0, SINA, 11Y, USA	t
Type of LAN supported	None	None	None	None
RJE terminals emulated	2780/3780	2780/3780	2780/3780, HASP	2780/3780, HASP
IBM 3270 emulation	No	No	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Winchester: 28-132MB	Winchester: 28-132MB	Fixed: 20MB-28MB	Fixed: 67MB-256MB
	Dick pack: 50-404MP	Dick pack: EQ.404MP	Removable: 20MP	Carteridaes AOMP 90MP
Carial maintana	10 200 and			Cartridge. 401vib-801vib
Serial printers	40-200 cps	40-200 cps	100-400 cps	80-400 cps
Letter quality printers	25-40 cps	25-40 cps	35-55 cps	35 cps, 55 cps
Line printers	300-1000 lpm	300-1000 lpm	None	300-1200 lpm
Reel-to-reel tape drives	45 ips-75 ips	45 ips-75 ips	None	75/125 ips:1600/6250 bp
Streaming tape drives	1600/6250 hpi	1600/6250 bpi	EE ing, 9000 hpi	Neno
		1000/0250 001		None
Cassette/carthoge tape onves		10,000 bpi; 67 MB	Cartridge: 201918-401918	None
Other perpherals supported	Diskettes; laser	Diskettes; laser		Diskette: 650KB
	printers, plotters	printers, plotters		
SOFTWARE				
Assembler		<u> _</u>	Advanced Assembler	Macro
Compilers	Basic Cobol Pascal	Basic Cobol Bascal	Cobol Basia PPG2	Cobol Pasia PPC
compilers	Eastern DDC CDI	Eastern DDC CDI	CODOI, Basic, AFG2,	CODOI, Basic, RFG,
	Fortran, RPG, SPL	Fortran, RPG, SPL	Fortran, Pascal, C	Fortran, Pascal
Operating system	Realtime, batch	Realtime, batch	GCOS, multitasking	Realtime
Operating sys, implemented in firmware		I	;s	None
Database management system	Image (2000	Imaga (2000	DMG	DMC
Database management system	inage/3000	image/3000		
Principal industry application	Manufacturing	Manufacturing	Office, data entry,	Manufacturing, distri-
	1	1	manufacturing	bution, pharmacy
Other packages	Distribution, Mat's &	Distribution, mat's &	Accounting, program	Office automation
	Prod Mamt Graphics	prod mamt graphice	development	accounting
	l loa. Mgmu, Graphics	prod. inginit, graphics	Goveropment	accounting
	1	1	1	
Basic system configuration and price	CPU, 2MB memory, 2	CPU, 3MB memory, 2	CPU, 512K memory, 5	512KB memory, 40MB disl
	general I/O channels,	general I/O channels,	workstation ports, 650KB	650KB diskette,
	disk caching, operating	1 intermodule bus, disk	diskette, 1 expansion	communications
	system-\$79.500	caching operating	slot 28MB fixed disk	controller 4 BS-422
	-,	eveters \$196 100	\$12 005	nome 2 man-422
	1	system		ports, 2 megabus slots,
			1	console\$27,000
Mo. maintenance of basic configuration	\$297	\$765	Contact dealer	\$162
Date of first delivery	December 1992	December 1992	December 1994	
Number installed to deta		December 1303		
	INOL SUPPlied	1-	ivot supplied	Not supplied
COMMENTS				
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		1		
	-	1	l i i i i i i i i i i i i i i i i i i i	
	1	1	1	

AUGUST 1985

MANUFACTURER AND MODEL	Honeywell DPS 6/45	Honeywell DPS 6/75	Inforex, Inc. Gen IV	Integrated Digital Products Corp. Whetstone XS-100
	16 bits	16 bits	16/32 bits	16 bits
	512KB-2MP	1MB-2MB	512KB-8MP	128KB-22MB
			STZKD-OIVID	120ND-32IVID
DISK STORAGE CAPACITY	IGB	IGM	TOMB-TGB	NA
NO. WORKSTATIONS SUPPORTED	32	96	28	128
PRICE RANGE	From \$45,500	\$60,000 + up	\$35,000-\$100,000	
TARGET MARKET			Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	proprietary	Motorola 68000	Descrete
Hardware floating point	Single /double	Double	None	None
Pottony backup	Ont	Ont	Std	None
Battery backup	Opt.	loui		None
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds MAIN STORAGE	250	220	70	100
Bytes fetched ner cycle	2	2	4	2
Mamany assess	4.25	425	20M Ha hite (and	160M bits (ass
Wemory access	425	425	2010 HZ Dits/sec.	TOONT DILS/Sec.
Cycle/access time, nanoseconds	500	500	390	100/70
Storage protection	Std.	Std.	Std.	Std.
Increment size, bytes	256K	256K	512KB	128K
Cache memory, bytes	None	8K	4KB	I
INPUT /OUTPUT CONTROL		1	1	1
No. of I/O abanala	3		Lin to 28 Ser : 2 Ber	62
No. of I/O channels	3	0	EAOKD/	0 540 /
Data transfer rate	-		540KB/sec.	2.5MB/sec.
COMMUNICATIONS	1			1
Max. number of lines	32	96	28	128
Synchronous	Opt.	Opt.: 19.2K bps	Opt.: 9.6K bos	Opt.: 50K
Asynchronous	Std	Opt : 19 2K bos	Ont 19 2K bpe	Std : 19 2K bre
Protocols supported	BSC, SDLC, HDLC, HASP	BSC, PUE, HDLC, SDLC	2780/3780, SNA, SDLC	
Type of LAN supported	None	Nono	SNA	Nono
DIF to a large large	10700 (0700 114 CD		0700 (2070	None
RJE terminals emulated	2780/3780, HASP	IBM 2780/3780	2/80/38/0	None
IBM 3270 emulation	Yes	Yes	Yes	No
PERIPHERAL EQUIPMENT				
Disks supported	Fixed: 67MB-256MB	Fixed: 67MB, 258MB	Fixed: 10MB-1GB	Fixed: 80MB-474MB
0.11.1.1.1.1			25 100	Cartridge. Solvid- Toolvid
Serial printers	80-400 cps	80-400 cps	35-160 cps	
Letter quality printers	35 cps, 55 cps	35, 55 cps	55 cps	
Line printers	300-1200 lpm	300-1200 lpm	300-1000 lpm	
Reel-to-reel tape drives	75/125 ips 1600/6250 bpi	75/125 ips 1600/6250 bpi	45 ins	<u> </u>
Streeming tone drives	None	None	25 100 inc. 1600 hri	
	Neg	None		
Cassette/cartridge tape drives	None	None	45IVIB; 90 Ips	
Other perpherals supported	Diskette: 650KB	Diskette: 650KB	Diskette: 1MB	
SOFTWARE				
Assembler	Macro	Macro	None	Asgol
Compilers	Cobol, Basic, RPG, Fortran, Pascal	Cobol, Basic, RPG, Fortran, Pascal	Basic, RMCobol, Fortran	Basic, Cobol, Fortran, Pascal
	Positimo	Poaltimo	Multitooking	Multitooking
	News	Nee	Bertielle	International
Operating sys. implemented in firmware	INONE	INONE	ranially	 —
Database management system	DM6	DM6	Informix	
Principal industry application	Manufacturing, distri-	Manufacturing,	Data collection	Office automation
· · ·	bution, pharmacy	Distribution, Pharmacv		
Other packages	Office automation	Office Automation	Word processing	1
puonegoo	accounting	Accounting	electronic spreadsheet	
	-	-		
PRICING & AVAILABILITY				
Basic system configuration and price	512KB memory, 80MB cart.	CPU, 1MB memory; 80MB	CPU, 1MB memory, 10MB	CPU, 2MB memory—
	disk, 650KB diskette	disk, printer port; 4	disk, 4 workstations,	\$35,000
	communications	workstation ports: 650KB	1 serial matrix printer.	
	controller A	diskette console	1 diskette unit-\$35 100	
	workstation ports,	\$60,000		
	printer port, console-	l	1	1
	\$45,500			1
Mo maintenance of basic configuration	\$258	\$458	\$350	
Dete of first delivery	November 1992	November 1992	January 1094	July 1982
Date of first delivery	November 1983	November 1983		1303
Number installed to date	INOT SUPPlied	INOT SUPPlied	200	450
COMMENTS				
	1		1	1

MANUFACTURER AND MODEL	IBM Series 1 Model 4954	IBM Series 1 Model 4956	IBM System/34	IBM System 36 Models Axx
WORD LENGTH	16 bits	16 bit	8 bits	8 bit
MAIN MEMORY	64K-256K	256K-2M	32KB to 256KB	128KB-256KB
DISK STORAGE CAPACITY	256MB per I/O attachment	256MB per I/O attachment	8.6MB to 257MB	30MB-800MB
NO. WORKSTATIONS SUPPORTED	8 per I/O attachment	8 per I/O attachment	16 local, 64 remote	100
PRICE RANGE	From \$8,500	From \$8,500	\$14,770-\$76,625	\$21,000-\$32,200
TARGET MARKET	Business	Business	Business	General Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
Hardware floating point	Double	Double	Opt.	No
Battery backup	Opt.	Opt.	No	<u> </u>
Real-time clock or timer	Opt.	Opt.	Std.	<u> </u>
CPU cycle time, nanoseconds		-		[
MAIN STORAGE		1	}	
Bytes fetched per cycle	-	I—	1	I—
Memory access		[<u>—</u>		
Cycle/access time, nanoseconds	1.4 ms	550	600	
Storage protection	None	Std.	None	Std.
Increment size, bytes	64K	256K	32K, 128K	128K, 256K
Cache memory, bytes	None	64K	None	None
INPUT/OUTPUT CONTROL	1	1		
No. of I/O channels	3-13	3-13	1	4
Data transfer rate	2.4M byte/sec.	2.4M byte/sec	I	2.5M byte/sec
COMMUNICATIONS]	
Max number of lines		l	4	4
Synchronous	Opt : 56K bps	Opt : 56K bos	Opt : 9 6K bps	Std : E6K bos
Asynchronous	Ont : 19 2K hos	Ont : 19 2K bos	Ont	Ont
Retagola supported	Bec V 25 HDI CIEDI C			V AF CNA DOG ODIO
Frotocols supported	DOC, A.20, HULC/SULC,	DOU, A.20, HULL/SULU,	SULC, BOC, SNA	A.25, SNA, BSC, SDLC
Turne of LANL survey in 1	SINA	SNA	000 105	l.,
Type of LAN supported		None	SSP-ICF	None
HJE terminals emulated	2780/3780	2/80/3780	HASP	l
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Fixed: 9.3-200MB	Fixed: 9.3-200MB	Fixed: 8.6MB-257MB Diskette: 246KB-1.2MB	Fixed: 30MB-400MB
Serial printers	40-160 cps	40-160 cps	140 cps	40-120 cps
Letter quality printers	None	None	40-60 cps	None
Line printers	140-560 lpm	140-560 lpm	44-650 lpm	95-650 lpm
Beel-to-reel tane drives	45/75 ins: 800/1600 boi	45/75 ins: 800/1600 hoi	None	None
Streaming tape drives	50/100 ipe: 20M	50/100 inc. 20M	Nono	12 5/100 ing: 1600 bot
Cassette (cartridge tang drives	None	None	Nono	
Other perpherals supported	Diskotto	Diekotto	TNOTE	Diskotta
other perpherais supported	DISKELLE	DISKELLE	1	DISKETIE
SOFTWARE	1		1	
Assembler	Macro	Macro	Assembler	Assemble
Compilero	Cabal Faster N(Cabal Farther N/	Assembler	Assembler
compliers	CODOI, Fortran IV,	Cobol, Fortran IV,	Basic, Fortran IV,	Basic, Cobol,
	PL/1	PL/1	Cobol, RPG II	Fortran IV, RPG II
Operating system	Multitasking	Multitasking	Realtime, batch	Multitasking
Operating sys. implemented in firmware	No	No	Partially	I—
Database management system	None	None	System/34 BRADS	None
Principal industry application	1		Accounting, retail	Manufacturing,
	1	1	l	Distribution
Other packages			Office automation	Office automation
			1	
basic system configuration and price	LPU, 250KB memory, 3	UPU, 256KB memory, 3	CPU, 32KB memory, 246KB	Model A11, 128KB memor
	I/O feature slots,	I/U slots, diskette	aiskette, 8.6MB disk,	diskette drive, 30MB
	aiskette drive	arive\$16,855	300 lpm printer-\$24,395	aisk\$21,000
	\$ I,800			
		· · · ·		
Mo. maintenance of basic configuration	\$65	\$57	\$199	\$96
Date of first delivery	1982	1983	December 1977	1983
Number installed to date	Not supplied		I	Not supplied
COMMENTS	1		1	l

MANUFACTURER AND MODEL	IBM System 36 Models Bxx	IBM System 38 Model 4	IBM System 38 Model 6	IBM System 38 Model 8
WORD LENGTH	8 bit	32 bits	32 bits	32 bits
MAIN MEMORY	256KB-1MB	1M-2MB	2MB-4MB	2MB-8MB
DISK STORAGE CAPACITY	200MB-800MB	64MB-3306MB	64 5MB-3306MB	64 5MB-6225MB
	100	120	104.51015-33001015	120
NU. WURKSTATIONS SUPPORTED				128
PRICE RANGE	\$41,000-\$100,000	\$61,000-\$127,000	\$82,840-\$147,990	\$60,000-\$252,000
TARGET MARKET	General Business	Business/Commercial	Business/Commercial	Business/Commercial
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
Hardware floating point	No			
	NO	<u> </u>		
ваттегу раскир	-		<u> </u>	-
Real-time clock or timer			<u> </u>	1—
CPU cycle time, nanoseconds	 —	200	133	133
MAIN STORAGE	1			
Bytes fetched per cycle		!	1	
			1-	
wemory access	1-			
Cycle/access time, nanoseconds		1100	400	400
Storage protection	Std.	Std.	Std.	Std.
Increment size, bytes	256K	128K	1M	11M
Cache memory bytes	None	None	None	Nono
INDUT OUTDUT CONTROL				
	1.			1.
No. of I/U channels	4	[]	12	11
Data transfer rate	2.5M byte/sec.	2.5M byte/sec.	2.5M byte/sec.	2.5M byte/sec.
COMMUNICATIONS		1	1 .	
Max number of lines	4	la	8	8
Supersonaue	Std . ECK has	Std . D. EK has	Stal . O. CK has	Ctd I O CK have
Synchronous	SIU.; DOK DOS	SIG.; S.OK DDS	Sta.; 9.0K Dps	Std.; 9.6K bps
Asynchronous	Upt.	Upt.; 1.2K bps	Upt.; 1.2K bps	Opt.; 1.2K bps
Protocols supported	X.25, SNA, BSC, SDLC	SDLC, SNA, BSC	SDLC, SNA, BSC	SDLC, SNA, BSC
Type of LAN supported	None	None	None	None
Type of LAN supported	None		None	lozzo
RJE terminals emulated		3770	3770	3770
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT	1		1	
Disks supported	Fixed: 30MB-400MB	Fixed: 64MB, 285MB	Fixed: 64MB, 285MB	Fixed: 64MB, 285MB
Coniel acietana	40 120	10 120	10 100	40,120,
Serial printers	40-120 cps	40-120 cps	[40-120 cps	40-120 cps
Letter quality printers	None	None	None	None
Line printers	95-650 lpm	200-1200 lpm	200-1200 lpm	200-1200 lpm
Bool to real tapo drives	None	12.50 inc. 800/1600 bri	12 50 inc. 800/1600 bpi	12 50 inc. 800/1600 boi
	10 E (100 in a 1000 hai	12-50 ips, 600/1000 bpi	12-50 lps, 600/1000 bpi	12-50 lps, 600/ 1000 bpi
Streaming tape drives	12.5/100 lps; 1600 bpi	None	None	None
Cassette/cartridge tape drives	None	None	None	None
Other perpherals supported	Diskette	Card equipment, diskette	Card equipment, diskette	Card equipment, diskette
SOFTWARE				
Assembler	Assembles		Net supplied	
Assembler	Assembler		Not supplied	
Compilers	Basic, Cobol,	RPG, Cobol, Basic	RPG, Cobol, Basic	RPG, Cobol, Basic
	Fortran IV, RPG II			
Operating system	Multitocking	Multitopking botob	Multitopking botch	Multitophing botch
Operating system	wultitasking	wuititasking, batch	wuititasking, batch	wuititasking, batch
Operating sys. implemented in firmware	1		1—	-
Database management system	None	None	None	None
Principal industry application	Manufacturing.	General Business	General Business	General Business
· · · · · · · · · · · · · · · · · · ·	Distribution	1		
Other packages	Office automation	Manufacturing	Manufacturing	Manufacturing
other packages	Once automation	ivianuiacturing,	ivianuracturing,	ivianuiaciuring,
		Distribution, Office/38	Distribution, Office/38	Distribution, Office/38
		1	1	1
PRICING & AVAILABILITY				
Pasia system configuration and price	Model B15 256KB memory	CPU 1M momony	CPU 2MR momony	CPU 2MR momony
basic system configuration and price	Nodel B15, 250KB memory,	CA FAD dial	CFO, ZIVIB memory,	100 PD JUST IN INT
	diskette drive, 600iviB	64.5IVIB disk, system	129IVIB disk, system	1291VIB disk, diskette,
	disk—-\$79,000	console, diskette &	console, diskette &	system console, & one
	•	one workstation	one workstation	workstation controller
		controller-\$49 140	controller-\$96.070	\$131.070
		1	1	
	1		1	
	\$ 212	0.074	0740	#050
	15242	\$4/4	\$/16	\$656
Mo. maintenance of basic configuration		August 1980	—March 1984	July 1983
Mo. maintenance of basic configuration Date of first delivery	July 1983		I	1
Mo. maintenance of basic configuration Date of first delivery Number installed to date	July 1983 Not supplied	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date	July 1983 Not supplied The B15 & B25 include	Not supplied	1	
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include	Not supplied		1
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 &	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	July 1983 Not supplied The B15 & B25 include 600MB disk; the B16 & B26 include 800MB disk.	Not supplied		

MANUFACTURER AND MODEL	IBM 8100 Information System	MAI/Basic Four 1600	MAI/Basic Four 2000	McDonnell Douglas Computer Systems Co. M6320
WORD LENGTH	8 bits	8 bits	16/32 bits	16 bits
MAIN MEMORY	256KB-6MB	128KB-512KB	768K-1.5MB	512KB-1024KB
DISK STORAGE CAPACITY	29MB-1GB	22MB-120MB	22MB-240MB	40MB-120MB
NO. WORKSTATIONS SUPPORTED	80	16	14	24
PRICE RANGE	\$19,000-\$89,000	\$16,420-\$65,000	\$14,420-\$55,000	Erom \$26,000
TARGET MARKET	Disributed Processing	Business	Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Motorola 68010	MDC Bit sliced
Hardware floating point	Double	No	No	None
Battery backup		Std.	Opt.	Std.
Real-time clock or timer		Std.	Std.	Std.
CPU cycle time, nanoseconds		200	128	80
MAIN STORAGE				
Bytes fetched per cycle		8	2	2
Memory access		8 bits/sec.	- 32M bits/sec	50M bits (sec
Cycle/access time_nanoseconds	800/1600	600	500	320
Storage protection	Std	Std	Std	1320 Cod
	JOR DECK	32K		
Cooke memory butes	128K, 250K	Opt : 32K		256KB, 512KB
	nvone	Opt. JER	NOTE	INONE
	2	I	-	
NO. OT I/U Channels	ö	20K huton (no.	5	32
Data transfer rate		ZUN Dytes/sec.	4IVI bytes/sec.	780KB/sec.
COMMUNICATIONS				1
Max. number of lines	6-11		14	48
Synchronous	Std.; 38.4K bps	Opt.; 9.6K bps	Opt.; to 4800 bps	No
Asynchronous	Opt.	Std.; 9.6K bps	Std.	Std.; 19.2K bps
Protocols supported	SDLC, BSC, SNA	2780/3780, 2770/3770, 3270, X.25	2780/3780, 2770/3770,	2780/3780,2770, 3741
Type of LAN supported	None	B4NET	B4NET, Omninet	None
RJE terminals emulated		2770/2780, 3770/3780	2770/2780, 3770/3780	2780/3780
IBM 3270 emulation	Yes	Yes	No	No
	100			
Disks supported	Fixed: 131MB	Fixed: 22MB/43MB/120MB	Fixed: 22MB/43MB, 120MB	Fixed: 40MB
	Removable: 29, 65, 129MB	100 100	Floppy: .6MB	
Serial printers	40-450 cps	120-160 cps	120-160 cps	120-400 cps
Letter quality printers	none	40 cps	40 cps	33 cps
Line printers	120-600 lpm	150/200/300 lpm	150-300 lpm	150-1200 lpm
Reel-to-reel tape drives	None	175 ips	None	None
Streaming tape drives	12.5/100 jps, 1600 bpi	100 ips	90 ips	100/50ips: 1600/3200 bp
Cassette/cartridge tape drives	None	30 ips	None	90 ins
Other perpherals supported	Card readers, diskette			
SOFTWARE				
Assembler	Assembler	None	None	Macro
Compilers	Cobol, Fortran, APL,	Business Basic	Business Basic, Cobol,	Basic, English,
	PL/1		с	Natural, All
Operating system		Multitasking	Multitasking	Multitasking
Operating sys. implemented in firmware		Fully	Fully	Partially
Database management system	DTMS	Origin	Origin, Informix	Reality Database Momt
Principal industry application	Distributed Processina	Various business	Various business	Gen, busisnes, manu-
		1		facturing, dist gov
Other packages		Electronic mail.	Word processing	MBE office automation
		Word processing	electronic mail,	
]	graphics	
PRICING & AVAILABILITY		CBI 1294	0011	
Basic system configuration and price	CPU, 256KB memory,	CPU, 128K memory,	CPU w//68K memory, 22MB	CPU, cabinet, 256KB
	64MB disk, 8 1/0	ZZIVIB fixed disk,	fixed disk, 1 floppy	memory, 40MB fixed disk,
	hardware levels	cartridge tape, 120 cps	disk, 120 cps printer,	¼" streaming tape drive,
	\$20,600	printer, terminal,	1 terminal, Boss/IX	1RS232+7RS422 ports
		Boss operating system	operating system	
		\$16,420	\$14,420	
Mo. maintenance of basic configuration	\$170	\$129	\$113	Contact vendor
Date of first delivery	August 1979	July 1984	February 1985	January 1985
Number installed to date		Not supplied	Not supplied	I
COMMENTS		1	Systems 110, 210	1
	1		available beginning	1
			at \$16.250	
				1
			į	
		1		1

MANUFACTURER AND MODEL	McDonnell Douglas Computer Systems Co. M6525	MDS Qantel Business Computers Systems 10 & 40	MDS Qantel Business Computers System 64	Modular Computer Systems Classic II/15
	16 bits	8 hite	8 bite	16 bits
		120K IMP		512KP_2MP
MAIN MEMORY	512KB-1024KB			5 IZKB-ZIVID
DISK STORAGE CAPACITY	40MB-640MB	20-900MB	75-2.5GB	13MB-1.2GB
NO. WORKSTATIONS SUPPORTED	48	4-64	100	3216
PRICE RANGE	From \$39,000	\$13,950-\$75,000	From \$81,000	\$16,000-\$45,000
TARGET MARKET	Business	Business	Business	Scientific/technical/
CENTRAL PROCESSOR				
CPI I manufacturer and model	MDC Bit sliced	2901 bit slice	2901 bit slice	Proprietary
	Nege	None	No	Single /double
Hardware floating point	None	INONE	INO	Single/double
Battery backup	Std.	None	None	Opt.
Real-time clock or timer	Std.	Opt.	Opt.	Std.
CPU cycle time, nanoseconds	80	100/91	<u> </u>	<u> </u>
MAIN STORAGE		,		
Butes fetched per evelo	2	1	9	2
Bytes retoried per cycle	2	1	0	1 ²
Memory access	50M bits/sec.			
Cycle/access time, nanoseconds	320	1000/585	400	500
Storage protection	Std.	Std.	Std.	None
Increment size bytes	512KB	32K/128K	512K	256K
Casha mamori butan	None	None	None	None
	NOTE			1016
INPUT/OUTPUT CONTROL				1.0
No. of I/O channels	32	15	15	16
Data transfer rate	780KB/sec.	38.4K bytes/sec.	38.4K bytes/sec.	833K bytes/sec.
COMMUNICATIONS			1	1
	10	20	30	4
wax. number of lines	40			
Synchronous	No	Upt. 38.4K bps	Upt. 38.4K bps	Upt. 9.6K bps
Asynchronous	Std.; 19.2K bps	Opt. 38.K bps	Opt. 38.K bps	Opt. 9.6K bps
Protocols supported	2780/3780.2770.3741	2780, 3780, 3740, HASP	2780, 3780, 3740, HASP	X.25, 2780/3780
		BIE	BIE	
The state of LAN	News	Post Not	DECT NET	Nono
Type of LAN supported	None	Best Net	BESTINET	None
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	No	Yes	Yes	No
PERIPHERAL FOULPMENT				l .
Disks supported	Fixed AOMR 260MR	Fixed: 23-430MB	Fixed: 75-430MB	Eived: 132-267MB Cart
Disks supported	TIXED. HOND, 2001015	1 1Xeu. 23-430101B		10 FMD ME AD OND
				13.5IVIB, WINCH: 20.2IVIB
Serial printers	120-400 cps	120 cps	120-300 lpm	64-440 lpm
Letter quality printers	33 cps	35 cps	35 cps	None
Line printers	150-1200 ipm	600-1000 lpm	600-1000 ipm	300-1000 Inm
Line printers	News		AE inc	75:max 800 (1600 hm)
Reel-to-reel tape drives	None	45 lps	45 lps	75ips; 800/1600 bpi
Streaming tape drives	100/50ips; 1600/3200 bpi	100 ips, 1600 bpi	100 ips; 1600 bpi	100/25 ips; 1600 bpi
Cassette/cartridge tape drives	90 ips	18MB cartridge		None
Other perpherals supported		1.3MB Diskette		Data capture terminal
Suid perpindue supported				
SUFIWARE				l
Assembler	Macro	None	None	Assembler, Macro
Compilers	Basic, English,	QIC Basic, Cobol	QIC Basic, Cobol	Cobol, Fortran, Pascal,
•	Natural All			Coral 66
0	Multitophing	Multitooking	Multitopking	Pool time
Operating system	wultitasking	wutitasking	Invititasking	neal-time
Operating sys. implemented in firmware	Partially	Partially	Partially	Partially
Database management system	Reality Database Mgmt.	None	None	Infinity
Principal industry application	Gen busisnes manu-	Manuf., retail, distri-	Manuf., Retail, distri-	Factory automation
, morpar modulity application	facturing dist get	bution botal sports	bution hotel enorte	
Othersen		Canad abase served	Canad about word	Name
Uther packages	IVINE OTICE automation	spread sneet, word	spread sneet, word	Inone
		processing	processing	1
	1	l	l	ļ
PRICING & AVAILABILITY	1		1	1
Pasia system configuration and price	CPU cabinet 512KB	System 10: CPU 96K	CPUL 512K memory 2	CPU 512KB memory
Dasic system configuration and price	memory AOMP fixed disk	memory 20MP dick	work station control	67MP disk 200 lpm
	memory, 401VIB fixed disk,	memory, ZUIVIB disk,	work station control-	67 IVIB disk, 300 ipm
	1/2" streaming tape drive,	diskette, terminal,	lers—\$81,400	printer—\$32,200
	1RS232+7RS422 ports	150 cps printer, 2		
	-\$39,000	workstations controller	1	l
	\$30,000	enerating system 12 050	1	1
		operating system	1	1
		1	1	1
		1	1	1
			1	1\$216
Mo. maintenance of basic configuration	Contact vendor	\$251	\$295	14310
Mo. maintenance of basic configuration	Contact vendor December 1984	\$251 1981	\$295 August 1983	
Mo. maintenance of basic configuration Date of first delivery	Contact vendor December 1984	\$251 1981	\$295 August, 1983	January 1984
Mo. maintenance of basic configuration Date of first delivery Number installed to date	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	Contact vendor December 1984 —	\$251 1981 3000	\$295 August, 1983 70	January 1984 250

MANUFACTURER AND MODEL	Modular Computer Systems Classic II/25	Modular Computer Systems Classic II/45	Modular Computer Systems Classic II/75	NCR Corporation Tower 1632
WORD LENGTH	16 bits	16 bits	16 bits	16/32 bits
MAIN MEMORY	512KB-1MB	512KB-2MB	1MB-4MB	512KB-2MB
DISK STORAGE CAPACITY	13MB-1.2GB	13MB-1.2GB	13MB-1.2GB	30MB-230MB
NO. WORKSTATIONS SUPPORTED	64	128	256+	16
PRICE RANGE	\$24,000-\$70,000	\$42,000-\$80,000	\$49,000-\$110,000	\$16,000-\$60,000
TARGET MARKET	Scientific/technical/	Scientific/technical/	Scientific/technical/	Business
	ractory/process contr.	factory/process contr.	factory/process contr.	
COLL MAL PROCESSOR	P			
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Motorola M68000
Hardware floating point	Single/double	Single/double	Single/double	Double
Battery backup	Opt.	Opt.	Opt.	Std.
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds MAIN STORAGE]—	-	Not supplied
Bytes fetched per cycle	2	2	2	Not supplied
Memory access		<u> </u>	<u> </u>	Not supplied
Cycle/access time_nanoseconds	250	145	145	Not supplied
Storage protection	Std	Std	Ctd	Std
Increment size butes	256K	2564	Stu.	510.
Casha mamon: butes	Nono	None	Nees	DIZK
			NOR	NORE
No. of I/O channels	16	64	64	7
Data transfer rate	1M byte/sec	4M bytes/sec	8M hytes/sec	5MB/sec
COMMUNICATIONS			Jun bytes/sec.	51415/360.
Max number of lines	32	256	256	16
	SZ Stad	200	200	10
Synchronous		Std.	Opt.; 25K bps	Opt.
Asynchronous	Std.	Std.	Opt.; 19.2K bps	Std.
Protocols supported	X.25, 2780/3780	X.25, 2780/3780	X.25, 2780/3780	2780/3780, SDLC, SNA, Asynch, X.25
Type of LAN supported	None	None	None	Ethernet
BJE terminals emulated	2780/3780	2780/3780	2780/3780	3770 2780/3780
IBM 3270 emulation	No	No	No	Vos
				163
Disks supported	Fixed: 132-264MB, Cart.	Fixed: 132-264MB, Cart:	Fixed: 132-264MB, Cart:	Fixed: 30MB or 84MB
	13.5, Winchester 20.2MB	13.5MB, Winch. 20.2MB	13.5MB, Winch: 20.2MB	
Serial printers	64-440 lpm	64-440 lpm	64-440 lpm	35-125 cps
Letter quality printers	None	None	None	33 cps
Line printers	300-1000 ipm	300-1000 lpm	300-1000 lpm	360-720 lpm
Reel-to-reel tape drives	75ips; 800/1600 bpi	75ips; 800/1600 bpi	75ips: 800/1600 bpi	None
Streaming tape drives	100/25 ips: 1600 bpi	100/25 ips: 1600 bpi	100/25 ins: 1600 bpi	30 ins. 800 bpi
Cassette/cartridge tape drives	None	None	None	None
Other perpherals supported	Data capture terminal	Data capture terminal	Data capture terminal	650KB diskettes
SOFTWARE		1		
Assembler	Assembler, Macro	Assembler, Macro	Assembler, Macro	68000
Compilers	Cobol, Fortran, Pascal, Coral 66	Cobol, Fortran, Pascal, Coral 66	Cobol, Fortran, Pascal, Coral 66	RM/COBOL, BASIC, FORTRAN, PASCAL, C
Operating system	Real-time	Realtime	Realtime	Multitasking
Operating sys, implemented in firmware	Partially	Partially	Partially	No
Database management system	Infinity	Infinity	Infinity	Ingres Relational DBMS
Principal industry application	Factory automation	Factory automation	Factory automation	Com'l., Med., Educ.,
Other packages	None	None	None	Govit., Fin., Retail
				Spreadsheets, Word Proc-
				essing, Office Auto.
basic system configuration and price	CPU, TIVIB memory, 67IVIB	CPU, TWB memory, 67WB	CPU, TMB memory, 67MB	CPU, 512KB memory, 30Mi
	alsk, 300 ipm printer	disk, 300 ipm line	disk, 300 ipm printer,	disk, 1MB diskette, 8
		printer, CR1-\$00,595	CR1	I/O ports, 1 CR1,
		1		125 ipm printer,
	1	1	1	Operating System,
		· ·		CUBUL\$23,600
Mo. maintenance of basic configuration	\$489	\$690	\$969	\$92.00 (w/o peripherals)
Date of first delivery	May 1982	May 1982	May 1982	December, 1982
Number installed to date	500+	300+	300+	Not supplied
COMMENTS				
			1	1

NORD LENGTH ANN MEMORY ISS STORAGE CAPACITY DISK STORAGE CAPACITY ISS STORAG	MANUFACTURER AND MODEL	NEC Information Systems Astra 3000 Series	New England Digital Corporation Able Series	Nixdorf Computer Corporation 8850/35	Nixdorf Computer Corporation 8850/45
AAN MEMORY AND A SUPPORT OF 1286 BMB BASE 1046 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865 1286 12865	WORD LENGTH	16/32 bits	16 bits	16 bits	16 bits
 ISIS STORAGE CAPACITY GANB-TOOMB GANB-TOOMB CANB-TOOMB Commondal Commondal	MAIN MEMORY	512KB to 8MB	64KB-1MB	128KB	128KB
00 Worker Start Tools Superpartsp 32 1 9 1 9 16 Attained ARGET MARKET Scientific (realitine Business Business Business Business CPU manufacturer and model NCC proprietary - - - - CPU manufacturer and model NCC proprietary - - - - Real Processor Std. Std. Std. Std. Std. Real Processor Std. Std. Std. Std. Std. Std. Real Processor Std.	DISK STORAGE CAPACITY	63MB-1000MB	40MB	Up to 66MB	Up to 132MB
PinC E RAVIE S10,000 up \$10,000 -\$60,000		32	1		16
ANCET Commonant Selectific/relation Businese Businese ENTRAL PROCESSOR Mater Productson None State State Battery backup Battery backup Stote More State State State Battery backup Battery backup Stote State State State State Battery backup Battery backup Stote State State State State CPU cycle access time, nanoseconds 200 22.4M bits/sec. - - Commental State State State State Storage money by some PUT/OUTPT CONTROL State State - - State supported Iteles State State - - State supported Iteles State State - - - State supported Iteles State State - - - - - - - - - - - - - - - - -	PRICE PANCE	\$10,000 up	\$10,000,\$60,000	5	10
ENTRAL PROCESSOFI Net P - - - - Hardware floating point - None Std. Std. Std. Std. Base time tooks or time Std. Std. Std. Std. Std. Whonly access Std. Std. Std. Std. Std. Base time tooks or time Std. Std. Std. Std. Bytes fields per cycle 4 2 2 An opplicable Memory access 1000 None None None Std. Std. Std. Std. Std. Cycle jaccess time, nanoscoords Std. None None None No. of () Channels 8 25.6 64 64 Cycle jaccess Std. Std. Std. Std. Agrichronous Std. Std. Std. Std. Std. </td <td>TARGET MARKET</td> <td>Commercial</td> <td>Scientific/realtime</td> <td>Business</td> <td>Business</td>	TARGET MARKET	Commercial	Scientific/realtime	Business	Business
CPU manufacture and model NEC property — — — — — — — — — — — — — — — — — — —	CENTRAL PROCESSOR				
Hadware floating point Red time (back or time clock or time block or time clock or time clo	CPU manufacturer and model	NEC proprietary	·	<u> </u>	I—
Batter backup	Hardware floating point		None		<u> </u>
Registring close or timer Period visations and times close or timer Std. Std. Std. Std. Std. Std. Std. Std.	Battery backup		None	Std.	Std.
CPU cycle tring, nanoasconds 200 250 1100 700 Bytes fichal per cycle 4 2 2 Minory access time, nanoasconds 600 600 400 Cycle access time, nanoasconds 600 600 400 Cycle access time, nanoasconds 600 600 400 Cycle access time, nanoasconds 600 60 400 Cycle access time, nanoasconds 600 700 Bott Cycle access time, nanoasconds 600 64 Cache memory, tyres - 22.4M bit/sec. No, of 1/0 channels 5 56 Data transfer rac - 2.4M bit/sec. Asynchronous 56. 56 Asynchronous 56. 2700/3780, 3270/3271 Type of LAN supported K.25 730/3780, 3270/3780 IBM 3270 annulation Yes None IBM 3270 annulation Yes 160 cype IbM 3270 annulation Yes <	Beal-time clock or timer	Std	Std	Std	Std
An S TORAGE Loo 100 100 Stars for had by cycle access time, nanoseconds - 2 - Marcory access - - 400 400 Strage protection 512KB, 1MB None - 400 Cache memory, hors - - 400 400 Cache memory, hors - - 400 400 Cache memory, hors - - 64 - War, JUPPUT CONTROL B 256 64 - War, anuthe of lates 16 56 2 2 2 Synchronous Std. 56 2 276/3780, 3270/3271, 3274, 3274 Synchronous Std. 56 170, 3780, 3270, 2271, 3274, 3274 2276, 3276, 3274, 3274 Std. 56 None Hap, SDLC, 2780/3780, 3270, 3274, 3274 2276, 3276, 3274, 3274 Std. 56 Ves None Hap, SDLC, 2780/3780, 400, 3780, 3270, 3274, 3274 Std. 556, 50 Yes 150 ops 150 ops Steaming system 100-200 ops Yes 150 ops Steaming system 100-200 ops Yes 300/600/900 lpm Steaming system Matriating system, vorkstation system, dist, onthowes <td< td=""><td>CPLL avela time, papasacondo</td><td>200</td><td>250</td><td>1100</td><td>700</td></td<>	CPLL avela time, papasacondo	200	250	1100	700
Byres fiched per cycle 4 2 2.4 M bits/sec. 2 4 4 4 Memory access 600 600 80 400 400 Storag protection 600 80 400 400 Increment size, bytes 512.68, 1MB - Not applicable Not applicable Not applicable Not applicable None Mone 52.66 64 64 64 64 Mone 22.4M bit/sec. -	MAIN STORAGE	200	230		
Memory access — — — — — — — — — — — — — — — — — …	Bytes fetched per cycle	4	2	2	2
Cycle/screase time, nanoesconds 600 600 400 400 Cycle/screase time, nanoesconds 500 None None Not applicable Incername tise, bytes 512,88, 1MB - None None None No. of 1/0 channels 9 256 64 64 64 Max, number of lines 16 56 2 2 Up to 19.2K bps Synchronous Std. 56 2 2 Up to 19.2K bps Synchronous Std. 56 2 2 Up to 19.2K bps Synchronous Std. 56 2 2 Up to 19.2K bps Synchronous Std. 57 7500/370.0 3270/3271 777.3, 3274, 3276 Synchronous Std. 7500 Noe Hasp, SDLC. 2780/3780 Std. 500 Pse Noe 100.200 ops 100.200 ops Std. 30-6600 ipm Yes 30/600/900 ipm 300/600/900 ipm 300/600/900 ipm Stderterup difty printers 30-6600 ipm	Memory access		22.4M bits/sec.	· '	I—
Storage protection Gache memory, bytes — More Nore Side 2 2 2 2 2 Nore — … <	Cycle/access time, nanoseconds	600	600	400	400
Increments size, bytes 51268, 1MB - None None None None None All opticable None All opticable None None None None None None None Non	Storage protection	I—	None	<u> </u>	
Calculation Processor	Increment size bytes	512KB. 1MB		Not applicable	Not applicable
More monitoring ranke bare anomality ranke (Multic Multic Multic Multic Multic Multic More and Multications Max. number of lines 8 256 64 - - 64 Max. number of lines 16 56 2<	Cache memory bytes		None	None	None
MCL/DUFUSI CATING 8 256 64 - - DimUNITION CATING - 22.4M bit/sec. - - DimUNITION CATING - - - -		_	ITUIE		Tione
No. or Ly Channels p 224 Mb Lysec. 64 64 CMM_LNCATIONS 16 56 2 2 CMM_LNCATIONS 16 56 2 2 Aynchronous 3td. 56 2 2780/3780, 3270/3271, 3773, 3274, 3276 Aynchronous 3td. 56 2 2780/3780, 3270/3271, 3773, 3274, 3276 Protocols supported Itos-net None Hasp, 5DLC, 2780/3780 Rill M3220 None Hasp, 5DLC, 2780/3780 Yes No Yes Hasp, 5DLC, 2780/3780 Statis aurafor rule printers 100,200 cps Yes Liber printers 100,200 cps Yes Strill printers 100,200 cps Yes Liber printers 100,200 cps Yes Strill printers 100,200 cps Yes Corpore printers 300/600/900 lpm 300/600/900 lpm Strill printers 100,2200 cps Yes Corpore printers 100,200 cps Yes Corpore printers			050		
Ubas transfer rate Max. number of lines — 22.4M bit/sec. — — — Max. number of lines 15 56 2 2 Up to 19.2K bps Up to 19.2K bps Max. number of lines 514 56 2 2760/3780, 3270(3271, 3777-3, 3274, 3276 7777-3, 3274, 3276 Type of LAN supported BM 3740, 3780, 3270, X.25 X.25 3777-3, 3274, 3276 7777-3, 3274, 3276 Type of LAN supported BM 3740, 3780, 3780, 780, 780, 780, 780, 780, 780, 780,	No. of I/O channels	8	250	04	04
OMMURCATIONS 16 56 2 2 Up to 19.2K bps Synchronous Std. 56 2 Up to 19.2K bps 2780/3780, 3270/3271, 3778, 3778, 3276, 3270/3271, 3778, 3276, 3270/3271, 3778, 3276, 3270/3271, 3778, 3276, 3270/3271, 3778, 3278, 3270/3270, 3778, 3778, 3276, 3270/3271, 3778, 3278, 3270, 3276, 3270, 3276, 3270, 3276, 3276, 3270, 3276, 3270, 3276, 3276, 3270/3780, Yes 150, 378, 377, 3274, 3276 Protocolds supported IMM 3760 None Hasp, SDLC, 2780/3780 Yes Bilk S270 multison Fixed: 63MB, 125MB Winchester: 40MB Fixed: 8MB, 32MB, 66MB, 125MB Fixed: SMB, 32MB, 66MB, 125MB Serial printers 100-200 cps Yes 150 cps 40 cps 40 cps Serial printers 300-600 lpm Yes 300/600/300 lpm 300/600/300 lpm Statier quality printers 30-500 cps Yes 40 cps 40 cps Complete supported Object complete supported None Hese 40 cps 40 cps Complete supported Stoco cold print Yes 300/600/200 lpm 300/600/200 lpm Complete supported Diskettres: IMB, work-stations, monochrome Stoco cold print Yes Editor OfTW ARE Assembler Macro None Virtual multiuser batch Integrated in oper, sys. Dirating advisem Office au	Data transfer rate		22.4M bit/sec.		—
Max. number of lines Stynchronous Asynchronous Stynchro	COMMUNICATIONS				
Synchronous Asynchronous Asynchronous Std. Std. 56 Up to 19.2.K bps Up to 19.2.K bps Protocols supported N2, 25 BM 3740, 3780, 3270, X, 25 X, 25 2780/3780, 3270/3271, 3777-3, 3274, 3276	Max. number of lines	16	56	2	2
Approtocols supported Sid 56 Color (Jack Apple) Protocols supported BM 3740, 3760, 3220, X.25 Z760/3780, 3270/3271, 3777.3, 3274, 3276 Type of LAN supported Hos-net The color (Jack Apple) BM 3700, arrows and the color (Jack Apple) The color (Jack Apple) The color (Jack Apple) BM 3700, arrows and the color (Jack Apple) The color (Jack Apple) The color (Jack Apple) BM 3700, arrows and the color (Jack Apple) The color (Jack Apple) The color (Jack Apple) BM 3700, arrows and the color (Jack Apple) None The color (Jack Apple) The color (Jack Apple) BM 3700, arrows and the color (Jack Apple) The color (Jack Apple) The color (Jack Apple) The color (Jack Apple) BM 3780 Yes None Hos (Jack Apple) The color (Jack App	Synchronous	Std.	56	Up to 19,2K bps	Up to 19.2K bns
Anymenature Total 3740, 3780, 3270, X, 25 Total 3740, 3780, 3270, X, 25 Total 3747, 3276, 3270, 3271, 3777, 3, 3274, 3276 Type of LAN supported IbM 3780 None Hasp, SDLC, 2780/3780 RE terminals emulated IBM 3780 None Hasp, SDLC, 2780/3780 Serial printers 100-200 cps Yes Hasp, SDLC, 2780/3780 Line printers 100-200 cps Yes 100-200 cps Line printers 100-200 cps Yes 300/600/900 lpm Stearing tape drives 300-600 lpm Yes 300/600/900 lpm Stearing tape drives 00 ps. 20ME-40MB Yes	Asynchropous	Std	56		
Induces supported (2100) 3210, 32100, 3210, 32100, 32100, 32100, 32100, 32100, 32100, 32100, 32100	Protocolo supported	IPM 2740 2790 2270	X 25	2790/2790 2270/2274	2790/2790 2070/2074
Type of LAN supported Itos-net None — — — — — — — — — — — — — Map, SDLC, 2780/3780 Yes Yes Yes Yes None Yes None Yes None Yes Yes Yes None Yes Yes None Yes Yes Yes Yes Yes Yes None Yes Yes None Yes Yes None Non	Protocols supported	X.25	A.25	3777-3, 3274, 3276	3777-3, 3274, 3276
RJE terminals emulated BM 3270 IBM 3780 None Hasp. SDLC. 2780/3780 Yes RIPHERAL ECUPMENT Fixed: 63MB, 125MB None None Yes Yes Disks supported 100-200 ops 330-600 lpm 150 ops 40 ops 300/600/900 lpm Letter quality printers 330-600 lpm 45 ips 300/600/900 lpm 45 ips 9/800. 9/1600 Stearning tape drives - - - - Cassette/catridge tape drives - None - - Other parberals supplication Basic, Cobol, C-Compiler None Yes - - Operating system None None Scientific, laboratory control systems, dist. control systems, dist. control systems, sign. Realtime Virtual multiuser batch - - Office automation, act CPU, JIMB disk drive, 512KB memory, operating system Scientific, laboratory control systems, dist. control systems, dist. control systems, sign. CPU, JIMB disk drive, 512KB memory, operating system, workstation CPU, ON Scientific, laboratory control systems, dist. control systems, solution, soluti	Type of LAN supported	itos-net	None	—	
IBM 3270 emulation Yes No Yes Yes Disk supported Fixed: 63MB, 125MB Winchester: 40MB Fixed: 8MB, 32MB, 66MB, 132MB Serial printers 100-200 cps Yes 150 cps 40 cps Litter quality printers 300-660 ipm Yes 300/600/900 ipm 300/600/900 ipm Stearing tape drives 45 ips None 45 ips 9/800, 9/1600 - Cossetto/carring(stape drives 0 ips, 20MB-40MB Yes - - OfFWARE Assembler Macro None - - Compilers Basic, Cobol, XPL (PL/1 subset) Editor - - Operating system Multitasking None None - - Operating system Prone call acct. dist. Scientific, laboratory Scientific, laboratory None - Other packages CPU only systems Scientific, laboratory Scientific, laboratory Scientific, laboratory None - None CPU only -\$10,000 CPU only -\$10,000 CPU only -\$10,000 CPU only -\$10,000 CPU, 9/1600 bpi auto Other packages CPU, Only -\$10,000 CPU only -\$10,000 CPU only -\$10,000 CPU, 9/1600 bpi auto Other packages CPU, MB disk drive	RJE terminals emulated	IBM 3780	None	Hasp, SDLC, 2780/3780	Hasp, SDLC, 2780/3780
ERIPHERAL EQUIPMENT Disks supported bisks supported bisks supported bisks supported bisks supported bisks supported bisks cool particles inter printers Beel-to-real tape drives cheer printers Beel-to-real tape drives cheer printers Beel-to-real tape drives biskettes: IMB, work- stations, monochrome Diskettes: IMB, work- stations, monochrome Compilers Diskettes: IMB, work- stations, monochrome Diskettes: IMB, work- stations, complex Diskettes: IMB, work- stations, complex Diskettes: IMB, work- stations, complex Diskettes: IMB, work- stations, complex Diskettes: IMB, work- station, settem Diskettes: IMB, work- station, settem Di	IBM 3270 emulation	Yes	No	Yes	Yes
Diske supported Fixed: 63MB, 125MB Winchester: 40MB Fixed: 8MB, 32MB, 66MB, 132MB, 66MB, 140 cps Serial printers 100-200 cps Yes 150 cps 40 cps Line printers 305-650 cps Yes 300/600/900 lpm 300/600/900 lpm Streaming tape drives 45 ips None 45 ips 9/800, 9/1600 45 ips 9/800, 9/1600 CorrWARE Assembler Soco-0 None 45 ips 9/800, 9/1600 45 ips 9/800, 9/1600 Operating systim Diskettes: IMB, work-stations, monochrome None Editor — Operating systim Macro Basic, Cobol, XPL (PL/1 subset) Virtual multiuser batch — Operating systim Prone call acct, dist. More None — — Other packages Office automation, acct Control systems, dist.	PERIPHERAL FOUIPMENT				
Serial printers 100-200 cps Yes 150 cps 122 Mo Letter quality printers 35-50 cps Yes 300/600/900 lpm 40 cps Reel-to-reel tape drives 300/600 pm Yes 300/600/900 lpm 45 ips 9/800, 9/1600 Streaming tape drives 0 bis, 20MB-40MB None - Cassette/cartridge tape drives 0 bis, 20MB-40MB Yes - Other perpherals supported Diskettes: 1MB, work-stations, monochrome Yes - - Assembler Basic, Cobol, C-Compiler No Editor Editor Operating system Doperating system None None - Operating system Pone cell accrt. dist. data proc., medical ma. control systems, dist. control systems, stem, workstation \$10.000 CPU only—\$10.000 CPU only—\$10.000 CPU. 91/100 bpi auto 100 cps p. 300/80 bpi auto CPU only—\$10.000 CPU, 9/1600 bpi auto Other packages \$10.000 CPU only—\$10.000 CPU only—\$10.000 CPU, 9/1600 bpi auto Click a VAILABILITY Basic system configuration and price \$10.000 S100 CPU only—\$10.000 State of first delivery November 1984 1976 - -	Disks supported	Fixed: 63MB, 125MB	Winchester: 40MB	Fixed: 8MB, 32MB, 66MB	Fixed: 8MB, 32MB, 66MB,
Serial printers 100-200 cps Yes 100-200 cps 100 cps Litter quality printers 305-600 kpm Yes 300/600/900 kpm 300/600/900 kpm Streaming tape drives	0.11.11	100.000	Tioppy: 200KB	450	1321018
Letter quality printers 35-50 cps Yes 40 cps 40 cps Litter printers 300-600/y00 lpm 45 ips 9/800, 9/1600 - 45 ips 9/800, 9/1600 Reel-to-reel tape drives - None 45 ips 9/800, 9/1600 - Cassette/catridge tape drives - None - - Cassette/catridge tape drives - None - - Compilers Basic Ocbol, monochrome No Editor - - Operating system Multitasking Realtime Virtual multiuser batch - - Other packages Office automation, acct Control Signal proc., graphics Banking, service bureau, insurance None Other packages Office automation, acct Control systems CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU, 9/1600 bpi auto load tape, 32MB disk, 300 jbm printer, communicators, one terminal—\$36,850 Mo. maintenance of basic configuration \$100 November 1984 1976 - - - - - - - - - - - - - - - -	Serial printers	100-200 cps	Yes	150 cps	150 cps
Line printers and a solution of the sector of the printers and the sector of the printers and the sector of the se	Letter quality printers	35-50 cps	Yes	40 cps	40 cps
Reel-to-reel tape drives 45 ips None 45 ips 9/800, 9/1600 45 ips 9/800, 9/1600 Cassertly cartridge tape drives 90 ips, 20ME-40MB Yes - - Other perpharals supported Disk tations, monochrome None 45 ips 9/800, 9/1600 - OFTWARE Assembler Macro None - - - Operating system Macro Basic, Cobol, Compiler - - - Operating sys. implemented in firmware Partially None Realtime Virtual multiuser batch - - Database management system None None Scientific, laboratory Banking, service bureau, insurance - - - - Other packages Office automation, acct control systems control systems Signal proc., graphics CPU only—\$10,000 CPU, 9/1600 bpi auto load tape, 32MB disk, 100 drei entry, gavernment -	Line printers	300-600 lpm	Yes	300/600/900 lpm	300/600/900 lpm
Streaming tape drives Other perpherals supported — None — …	Reel-to-reel tape drives	45 ips	None	45 ips 9/800, 9/1600	45 ips 9/800, 9/1600
Gasenter/Cartridge tage drives Other perpherals supported 90 ips, 20MB-40MB Diskettes: 1MB, work- stations, monochrome Yes — — — OFTWARE Assembler Compilers Macro Basic, Cobol, C-Compiler No Editor Editor Operating system Operating system Operating system Principal industry application Multitasking Principal industry application Multitasking Principal industry application Realtime None Virtual multiuser batch 	Streaming tane drives	l '	None		
Construction Display Explored Display Explored Display Explored Display Explored Offer perpendential supported Diskettes: TMR, work-stations, monochrome No Editor Editor Assembler Basic, Cobol, C-Compiler No XPL (PL/1 subset) — — Operating system Multitasking Parially None None Integrated in oper. sys. Barking, service bureau, insurance Other packages Office automation, acct Control systems, dist. control systems, dist. control systems, dist. CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU, 9/1600 bpi auto loog printer, system, workstation \$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU, 9/1600 bpi auto loog printer, communications, one terminal—\$36,850 CPU, 9/1600 bpi auto loog tape. 32MB disk, 300 lpm printer, communications, one terminal—\$36,850 Mo: maintenance of basic configuration Date of first delivery Number installed to date \$100 0 \$333 \$644	Cassette/cartridge tape drives	90 ins 20MB-40MB	Ves		l
OFTWARE Assembler stations, monochrome No Editor Assembler Macro No Editor Compilers Basic, Cobol, C-Compiler No Editor Operating system Multitasking Reatime Virtual multiuser batch Operating system More None Integrated in oper. sys. Database management system None None Integrated in oper. sys. Other packages Office automation, acct. control systems Signal proc., graphics Signal proc., graphics RICING & AVAILABILITY Basic system configuration and price CPU, JNB disk drive, \$12KB memory, operating \$10,000 CPU only—\$10,000 CPU, 510600 bpi auto load tape, 32MB disk, 130 cps printer, communications, one CPU, 91600 bpi auto load tape, 330,850 Iod tape, 32MB disk, 300 lpm printer, communications, one Mo. maintenance of basic configuration Date of first delivery Number instaled to date \$100 0 \$393 \$644 OMMENTS Instrument was formerly the 600 Series. This system was formerly the 600 Series. This system was formerly the 600 Series. This system was	Other perpherals supported	Diskettes: 1MB, work-	165		
OFTWARE Assembler Compilers Macro Basic, Cobol, C-Compiler No XPL (PL/1 subset) Editor — Editor — Operating system Operating sys. implemented in firmware Partially Multitasking None Partially Realtime No No Scientific, laboratory control Virtual multiuser batch — Virtual multiuser batch — Operating system Pincipal industry application None Phone call acct., dist. data proc., medical mg. Office automation, acct control systems, dist. control systems, dist. control systems Scientific, laboratory control None Signal proc., graphics Integrated in oper. sys. Banking, service bureau, insurance insurance RICING & AVAILABILITY Basic system configuration and price CPU, JIMB disk drive, \$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU, 9/1600 bpi auto load tape, 3XIM disk, 150 cps printer, communications, one terminal—\$36,850 CPU, 9/1600 bpi auto load tape, 3XIM disk, 150 cps printer, communications, one terminal—\$36,850 CPU, 9/1600 bpi auto load tape, 3XIM disk, 150 cps printer, communications, one terminal—\$36,850 Mo. maintenance of basic configuration Date of first delivery Nowember 1984 1076 — — Mos maintenance of basic configuration OMMENTS \$100 0 \$393 \$644 Mosember 1984 1976 — — —		stations, monochrome		1	1
Assembler Compilers Macro Basic, Cobol, C-Compiler No VPL (PL/1 subset) Editor Editor Operating system Operating system Principal industry application Multitasking Principal industry application Multitasking Principal industry application Multitasking Principal industry application Realtime None Virtual multiuser batch Integrated in oper. sys. Banking, service bureau, insurance Integrated in oper. sys. Banking, service bureau, insurance Other packages Office automation, acct control systems, dist. control systems Signal proc., graphics CPU only—\$10,000 CPU, 1MB disk drive, S12KB memory, operating system, workstation S10,000 CPU only—\$10,000 CPU, 9/1600 bpi auto load tape, 32MB disk, 150 cops printer, communications, one terminal—\$36,850 CPU, 9/1600 bpi auto load tape, 32MB disk, 150 cops printer, communications, one terminal—\$36,850 Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS \$100 November 1984 0 \$393 1976 	SOFTWARE				1
CompilersBasic, Cobol, C-CompilerXPL (PL/1 subset)——Operating system Derating system Database management system Principal industry applicationMultitasking Phone call act., dist. data proc., medical mg. Office automation, act control systemsRealtime Non NoneVirtual multiuser batch — Integrated in oper, sys. Banking, service bureau, insurance Accounts receivable, payroll, order entry, government—Office automation, acct control systemsOffice automation, acct control systemsSignal proc., graphicsSignal proc., graphicsCPU only—\$10,000 CPU plus peripherals —\$40,000CPU, 9/1600 bpi auto load tape, SMB disk, 150 cps printer, communications, one terminals—\$36,850CPU, 9/1600 bpi auto load tape, 32MB disk, 300 lpm printer, communications, one terminals—\$74,470Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS\$1000\$393 400\$644 — — — This system was formerly the 600 Series.\$644 — — — This system was formerly the 600 Series.This system was formerly the 600 Series.	Assembler	Macro	No	Editor	Editor
Operating system Operating system Database management system Principal industry application Multitasking Partially None Realtime No Virtual multiuser batch Integrated in oper. sys. Banking, service bureau, insurance Virtual multiuser batch Integrated in oper. sys. Banking, service bureau, insurance Integrated in oper. sys. Banking, service bureau, insurance Integrated in oper. sys. Banking, service bureau, insurance Other packages Office automation, acct control systems Signal proc., graphics CPU only—\$10,000 CPU plus peripherals _\$12KB memory, operating system, workstation \$10,000 CPU only—\$10,000 CPU plus peripherals _\$140,000 CPU. 9/1600 bpi auto load tape, 8MB disk, 150 ops printer, communications, one terminal—\$36,850 CPU. 9/1600 bpi auto load tape, 32MB disk, 300 (pm printer, communications, one terminal—\$36,850 CPU. 9/1600 bpi auto load tape, 32MB disk, 300 (pm printer, communications, one terminal—\$36,850 Mo. maintenance of basic configuration Date of first delivery Number installed to date OVIMENTS \$100 November 1984 0 \$393 1976 400 \$393 176 176 \$644 1776	Compilers	Basic, Cobol, C-Compiler	XPL (PL/1 subset)	_	
Operating system Instructasting Instructasting Instructasting Virtual multituser batch Virtual multituser batch Doparating system None None Integrated in oper. sys. Banking, service bureau, insurance Database management system None Scientific, laboratory control Banking, service bureau, insurance Integrated in oper. sys. Other packages Office automation, act control systems Signal proc., graphics Signal proc., graphics Accounts receivable, payroll, order entry, government Accounts receivable, payroll, order entry, government RICING & AVAILABILITY CPU, 1MB disk drive, 512KB memory, operating system, workstation \$10,000 CPU plus peripherals —\$40,000 CPU, 9/1600 bpi auto load tape, 8MB disk, 150 cps printer, communications, one terminal—\$36,850 CPU, 9/1600 bpi auto load tape, SMB disk, 130 cps printer, communications, eight terminals—\$74,470 Mo. maintenance of basic configuration Date of first delivery \$100 0 \$393 — Number installed to date November 1984 1976 — — Number installed to date This system was formerly the 600 Series. This system was formerly the 600 Series. Formerly the 600 Series.	0		Desthings		
Operating sys. implemented in tirmware Partiality None — — — — — — — — — — — — — — — — — — — …	Operating system	Invititasking	neattime	virtual multiuser batch	virtual multiuser batch
Database management system Principal industry application Principal industry application Principal industry application Principal industry application Other packagesNone Phone call acct., dist data proc., medical mg. Office automation, acct control systems, dist. control systemsNone Scientific, laboratory controlIntegrated in oper. sys. Banking, service bureau, insurance Accounts receivable, payroll, order entry, governmentIntegrated in oper. sys. Banking, service bureau, insuranceIntegrated in oper. sys. Banking, service bureau, insuranceOther packagesOffice automation, acct control systems, dist. control systemsSignal proc., graphicsBanking, service bureau, insuranceRICING & AVAILABILITY Basic system configuration and priceCPU, 1MB disk drive, 512KB memory, operating system, workstation \$10,000CPU only—\$10,000 CPU plus peripherals -\$40,000 Complete scientific system—\$60,000CPU, 9/1600 bpi auto load tape, 8MB disk, 150 cps printer, communications, one terminal—\$36,850CPU, 9/1600 bpi auto load tape, 32MB disk, 150 cps printer, communications, one terminal—\$36,850CPU, 9/1600 bpi auto load tape, 32MB disk, 150 cps printer, communications, one terminal—\$36,850S644 Mo. maintenance of basic configuration Date of first delivery Number installed to date .OMMENTS\$100 November 19840 <td>Operating sys. implemented in firmware</td> <td>Partially</td> <td>INO</td> <td></td> <td><u> </u></td>	Operating sys. implemented in firmware	Partially	INO		<u> </u>
Principal industry application Other packagesPhone call act., dist. data proc., medical mg. Office automation, act control systems, dist. control systemsScientific, laboratory controlBanking, service bureau, insuranceBanking, service bureau, insuranceRICING & AVAILABILITY Basic system configuration and priceCPU, 1MB disk drive, 512KB memory, operating system, workstationCPU only—\$10,000 CPU plus peripherals -\$40,000CPU. 9/1600 bpi auto load tape, 8MB disk, 150 cps printer, communications, one terminal—\$36,850CPU, 9/1600 bpi auto load tape, 8MB disk, 300 lpm printer, communications, one terminal—\$36,850CPU, 9/1600 bpi auto load tape, 8MB disk, 300 lpm printer, communications, one terminal—\$36,850CPU, 9/1600 bpi auto load tape, 8MB disk, 300 lpm printer, communications, one terminal—\$36,850S644 - - This system was formerly the 600 Series.S644	Database management system	None	None	Integrated in oper. sys.	Integrated in oper. sys.
Other packagesdata proc., medical mg. Office automation, act control systems, dist. control systems, dist. control systemscontrolinsurance Accounts receivable, payroll, order entry, governmentinsurance Accounts receivable, payroll, order entry, governmentRICING & AVAILABILITY Basic system configuration and priceCPU, 1MB disk drive, 512KB memory, operating system, workstation \$10,000CPU only—\$10,000 CPU plus peripherals -\$40,000CPU, 9/1600 bpi auto load tape, 8MB disk, 150 cps printer, communications, one terminal—\$36,850CPU, 9/1600 bpi auto load tape, 32MB disk, 300 lpm printer, communications, eight terminal—\$36,850CPU, 9/1600 bpi auto load tape, 32MB disk, 300 lpm printer, communications, eight terminal—\$36,850CPU, 9/1600 bpi auto load tape, 32MB disk, 150 cps printer, communications, eight terminal—\$36,850S644 -<	Principal industry application	Phone call acct., dist.	Scientific, laboratory	Banking, service bureau,	Banking, service bureau,
Other packages Other packagesOffice automation, acct control systems, dist. control systemsSignal proc., graphicsAccounts receivable, payroll, order entry, governmentAccounts receivable, payroll, order entry, governmentRICING & AVAILABILITY Basic system configuration and priceCPU, 1MB disk drive, 512KB memory, operating system, workstationCPU only—\$10,000 CPU plus peripherals —\$40,000 Complete scientific system—\$60,000CPU, 9/1600 bpi auto load tape, 32MB disk, 150 cps printer, communications, one terminal—\$36,850Accounts receivable, payroll, order entry, governmentMo. maintenance of basic configuration Date of first delivery Number installed to date OMIMENTS\$100 November 19840\$393 1976 — <br< td=""><td></td><td>data proc., medical mg.</td><td>control</td><td>insurance</td><td>insurance</td></br<>		data proc., medical mg.	control	insurance	insurance
RICING & AVAILABILITY Basic system configuration and pricecontrol systems control systemsCPU only—\$10,000 CPU plus peripherals —\$40,000payroll, order entry, governmentpayroll, order entry, governmentMo. maintenance of basic configuration Date of first delivery Number installed to date .OMIMENTS100 November 19840\$393 — Tormerly the 600 Series.\$644 — This system was formerly the 600 Series.— This system was formerly the 600 Series.	Other packages	Office automation, acct	Signal proc., graphics	Accounts receivable.	Accounts receivable.
RICING & AVAILABILITY Basic system configuration and price RICING & AVAILABILITY Basic system configuration and price RICING & AVAILABILITY Basic system configuration and price RICPU, 1MB disk drive, 512KB memory, operating system, workstation \$10,000 Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS RICING & AVAILABILITY Basic system and price Statk memory, operating system, workstation Statk memory, operating Statk memory, operating Statk memory, operating Statk memory, operating Statk memory, operating System, workstation Statk memory, operating Statk memory, operating Statk memory, operating System, workstation Statk memory, operating Statk memory, operating S	, ,	control systems dist		payroll, order entry	payroll, order entry
RICING & AVAILABILITY Basic system configuration and price Basic system configuration and price Basic system configuration and price System, workstation \$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 CPU only—\$10,000 Complete scientific system—\$60,000 Complete scientific system—\$60,000 Salar Source State Source State Source State Sta		control systems	{	dovernment	dovernment
Mound & AVAILABILT 1 Basic system configuration and price CPU, 1MB disk drive, 512KB memory, operating system, workstation \$10,000 CPU only—\$10,000 CPU, 9/1600 bpi auto load tape, 8MB disk, 150 cps printer, communications, one terminal—\$36,850 CPU, 9/1600 bpi auto load tape, 32MB disk, 300 lpm printer, communications, one terminal—\$36,850 Mo. maintenance of basic configuration Date of first delivery Number installed to date :OMMENTS \$100 0 \$393 \$644 Mo. maintenance of basic configuration Date of first delivery Number installed to date November 1984 1976 — — Mo. maintenance of basic configuration Date of first delivery Number installed to date November 1984 0 \$393 \$644 Mo. This system was formerly the 600 Series. This system was formerly the 600 Series. This system was formerly the 600 Series.		sontion systems	1	accounter	Sevenment
Dasic system comiguration and price CP0, 10B disk drive, 512KB memory, operating system, workstation \$10,000 CP0 plus peripherals -\$40,000 CP0, 9/1600 bpi auto load tape, 8MB disk, 150 cps printer, communications, one terminal—\$36,850 CP0, 9/1600 bpi auto load tape, 32MB disk, 300 lpm printer, communications, one terminal—\$36,850 Mo. maintenance of basic configuration Date of first delivery Number installed to date \$100 November 1984 0 \$393 			CPUL anticip that a cost		
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS S 12KB memory, operating system, workstation \$10,000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Basic system configuration and price	CPU, TIVIB disk drive,	CPU only\$10,000	CPU, 9/1600 bpi auto	CPU, 9/1600 bpi auto
Mo. maintenance of basic configuration \$10,000 Date of first delivery Number installed to date OMIMENTS November 1984 November 1		512KB memory, operating	CPU plus peripherals	load tape, 8MB disk,	load tape, 32MB disk,
Mo. maintenance of basic configuration \$100 November 1984 Complete scientific system—\$60,000 0 \$393 		system, workstation	-\$40,000	150 cps printer,	300 lpm printer,
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS S 100 0 \$393 \$644 This system was formerly the 600 Series. formerly the 600 Series.		\$10,000	Complete scientific	communications, one	communications, eight
Mo. maintenance of basic configuration \$100 0 \$393 \$644 Date of first delivery Number installed to date OMMENTS \$100 November 1984 1976		1	system\$60.000	terminal-\$36.850	terminals-\$74.470
Mo. maintenance of basic configuration \$100 0 \$393 \$644 Date of first delivery November 1984 1976 — — — — Number installed to date OMMENTS This system was formerly the 600 Series. formerly the 600 Series.					
Mo. maintenance of basic configuration \$100 0 \$393 \$644 Date of first delivery November 1984 1976 — — — Number installed to date COMMENTS This system was formerly the 600 Series. formerly the 600 Series.					
Date of first delivery Number installed to date COMMENTS November 1984 1976 400 400 1976 This system was formerly the 600 Series. 1976 This system was formerly the 600 Series.	Mo. maintenance of basic configuration	\$100	0	\$393	\$644
Number installed to date 400 — — OMMENTS This system was formerly the 600 Series. This system was formerly the 600 Series. This system was	Date of first delivery	November 1984	1976	<u> </u>	—
COMMENTS This system was formerly the 600 Series. This system was formerly the 600 Series.	Number installed to date		400		
formerly the 600 Series. formerly the 600 Series.	COMMENTS		1	This system was	This system was
				formerly the 600 Series	formerly the 600 Series

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MANUFACTURER AND MODEL	Nixdorf Computer Corporation 8850/55	Nixdorf Computer Corporation 8850/65	Nixdorf Computer Corporation Model 15	Nixdorf Computer Corporation Model 35
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	128KB	128KB	256KB-512KB	256KB-1024KB
DISK STORAGE CAPACITY	Up to 528MB	Up to 528MB	16MB-65MB	26MB-52MB
NO. WORKSTATIONS SUPPORTED	32	32	8	12
PRICE RANGE	_	<u> </u>	\$20,000-35,000	\$30,000-45,000
TARGET MARKET	Business	Business	Business	Business
CPU manufacturer and model	_	_	Nixdorf	Nixdorf
Hardware floating point	_	l		
Battery backup	Std	Std	Std	Std
Beal-time clock or timer	Std	Std	Std	Std
CPU cycle time nanoseconds	450	375	300	150
MAIN STORAGE	450	5,5	500	150
Bytes fetched per cycle	2	2		l
Memory access	<u> </u>	2		
Cycle/access time papeseconds	400	100	500	400/250
Sternas protection	400	400	500	400/350
Increment size, butch	Net oppliaghle	Net epsilophie		DE CKD
Cooks managers butter			ZOOKB	ZOOKB
	None	ZNB	None	None
	64			10
No. of I/O channels	04	04	8	112
Data transfer rate		-	9.6K bps	
COMMUNICATIONS				
Max. number of lines	2	2	2	2
Synchronous	Up to 19.2K bps	Up to 19.2K bps	Opt.; 9.6K bps	Opt.; 9.6K bps
Asynchronous			Std.; 9.6K bps	Std.; 9.6K bps
Protocols supported	2777 2 2274 2276	2780/3780, 3270/3271,	2780/3780	2780/3780
Turns of LAN summariad	3777-3, 3274, 3276	3777-3, 3274, 3276		
Type of LAN supported				
RJE terminals emulated	HASP, SDLC, 2780/3780	HASP, SDLC, 2780/3780	2/80/3/80	2/80/3/80
IBM 3270 emulation	Yes	Yes	No	No
PERIPHERAL EQUIPMENT Disks supported	Fixed: up to 528MB	Fixed: up to 528MB	Fixed: 16MB-64MB	Cartridge: 26MB-52MB
				our mage. Lond of the
Serial printers	150 cps	150 cps	100/150 cps	100/150 cps
Letter quality printers	40 cps	40 cps	45 cps	45 cps
Line printers	300/600/900 lpm	300/600/900 lpm	300/600 ipm	300/600 lpm
Reel-to-reel tape drives	45 ips 9/800, 9/1600	45 ips 9/800, 9/1600	None	800/1600 bpi
Streaming tape drives		I	None	None
Cassette/cartridge tape drives	<u> </u>	I	None	None
Other perpherals supported		1	Diskette	
	ļ			
SOFTWARE			(
Assembler	Editor	Editor		
Compilers			Basic, Interpreter	Basic Interpreter
Operating system	Virtual (multiupar /hatah	Vintual (multius or /h stah		De altriana analtria al la s
Operating system	virtual/multiuser/patch	virtual/multiuser/batch	neaitime, muititasking	nealtime, multitasking
Operating sys. Implemented in tirmware				INO
Database management system	Integrated in oper. sys.	Integrated in oper. sys.		
Principal industry application	Banking, service bureau,	Banking, service bureau,	Manufacturing, distri-	Manufacturing, distri-
	Insurance	Insurance	bution, banking	bution, banking
Uther packages	Accounts receivable,	Accounts receivable,	Financial management,	Financial management,
	payroll, order entry	payroll, order entry	mortgage banking	mortgage banking
Basic system configuration and price	CPU 9/1600 bpi auto		CPUL 256KP momony	
basic system configuration and price	Logd tone 66MP diek	Lood tong 122MP diak	16MD diale VDT maintain	CFU, 250KB memory,
	200 lass seister		tolvib disk, VDT printer-	ZOIVIB disk, TOU cps
	300 ipm printer,	600 lpm printer,	\$19,300	printer, VD1\$31,600
	communications, 16	communications, 16		
	terminais\$105,000	terminals\$117,000		
Mo. maintenance of basic configuration	\$644	\$644	\$199	\$271
Date of first delivery		I—	1984	1983
Number installed to date]	 —	I—
COMMENTS	This system was	This system was		
	formerly the 600 Series.	formerly the 600 Series.]	
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MANUFACTURER AND MODEL	Nixdorf Computer Corporation Model 55	Norsk Data N.A., Inc. ND 100	Norsk Data N.A., Inc. ND 100/CX	Northern Telecom Inc. 503
WORD LENGTH	16 bits	16 bits	16 bits	8 bits
	256KB-1024KB	500KB-4MB	500KB-4MB	256KB
		22MB 2 10B	22MD 2 10D	1 CMD 10 CMD
DISK STORAGE CAPACITY	421018-2041018	231VIB-2. 1GB	231VIB-2. TGB	1.6MB-10.8MB
NO. WORKSTATIONS SUPPORTED	24	128	128	1
PRICE RANGE	\$45,000-100,000	\$23,000-\$64,200	\$103,350	From \$5,250
TARGET MARKET	Business	General purpose	General purpose	
CENTRAL PROCESSOR				
CPU manufacturer and model	Nixdorf	ND100	ND100/CX	Intel 8085
		Dautela	Dauthia	
Hardware floating point		Double	Double	None
Battery backup	Std.	Std.	Std.	None
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds	150	180	150	286
MAIN STORAGE				
Bytes fetched per cycle		2	2	
		²	2	
Nemory access				
Cycle/access time, nanoseconds	400/350	180	180	—
Storage protection	—	Std.	Std.	None
Increment size, bytes	256KB	250KB 500KB 1MB 2MB	250KB 500KB 1MB 2MB	Not applicable
Casha memory bytes	None	Ont : 2KP	Ont : 2KB	None
INDUT (OUTDUT CONTROL			opt ZND	
INFUT/UUTPUT CUNTRUL				
No. of I/O channels	24	3	3	
Data transfer rate	1—	2.1MB/sec.	2.1MB/sec.	I
COMMUNICATIONS			,	
Max number of lines	2	64	64	2
iviax. number of lines	2	04	64	2
Synchronous	Opt.; 9.6K bps	Opt.	Opt.	Opt., 9.6K bps
Asynchronous	Std.; 9.6K bps	Std.: 9.6K bps	Std.: 9.6K bps	Opt., 9.6K bps
Protocols supported	2780/3780	2780/3780 SDLC SDLC	2780/3780 SDLC SDLC	2770/2780/3780
	2,00,0,00	Hasp SIVA BSC	Hasp SIVA BSC	TC2500 SNA SDLC
		Hasp, SIVA, BSC	Hasp, SIVA, DSC	TC3500, SNA, SDLC
Type of LAN supported		Ethernet, HDLC	Ethernet, HDLC	None
RJE terminals emulated	2780/3780	2780/3780, Hasp	2780/3780, Hasp	2780/3780, HASP
IBM 3270 emulation	No	Yes	Yes	Yes
Disks supported	Permanahlar 264MP	Eived and removable, 70	Fixed and remevable, 70	OMD Flammur
Disks supported	nemovable: 2041VID	Fixed and removable: 70	Fixed and removable: 70	.olvib Floppys,
		MB, 140MB, 288MB, 450ME	MB, 140MB, 288MB, 450MB	10MB Winchester
Serial printers	100/150 cps	80-300 cps	80-300 cps	120-180 cps
Letter quality printers	45 cps	38/55 cps	38/55 cps	40 cns
Line printore	300 /600 lpm	600,1000 lpm	600 1000 lpm	200 lpm
Line printers				SUO IPIN
Reel-to-reel tape drives	800/1600 bpi	125 ips; 1600/6250	125 ips; 1600/6250	None
Streaming tape drives	None	90 ips, start/stop	90 ips, start/stop	None
Cassette/cartridge tape drives	None	90 ips	90 ips	None
Other perpherals supported		Card reader	Card reader	None
Other perpherals supported			Card reader	None
0.05711/1.05				
SUFTWARE				
Assembler		Macro Assembler	Macro Assembler	Only in CP/M 3.0
Compilers	Basic, Interpreter	Cobol, Fortran, ADA,	Cobol, Fortran, ADA,	ACOBOL3/AL2000.
	[,	Pascal, APL, C, Simula	Pascal, APL, C, Simula	CP/M 3.0
				,
Operating system	Realtime, multitasking	Realtime, batch, timesh	Realtime, batch, timesh	Multitasking
Operating sys, implemented in firmware	No	Partially	Partially	No
Database management system		Sibas	Sibas	dBASE II using CP/M
Database management system		Silvas	Sillas	UDAGE II USING CP/IVI
Principal industry application	Ivianutacturing, distri-	General purpose	General purpose	
	bution, banking			
Other packages	Financial management.	Office automation	Office automation	Word processing
	mortgage banking	ļ		,
Basic system configuration and price	CPU, 256KB memory,	ND-100 CPU, 3 terminal	ND-100/CX CPU, 512KB	256K RAM, 15″ CRT,
	42MB disk, 100 cps	interfacess, 512KB	memory, 1.2MB floppy	CP/M and 2 (.8MB)
	printer VDT-\$45 200	memory five 1/ 1 2MB	disk drive printer	diskettes\$5 250
	phinter, VD1—\$45,200	flemmu dialu drives	terminal terminal	diskettes—#0,200
		noppy alsk arives,	terminal, terminal	
		23MB fixed disk drive	interface, 20 position	
			rack, disk controller	
			-\$103,350	
Ma maintananaa of hasis sanfiningi	¢272	¢015	\$950	¢ 172
ivio. maintenance of basic configuration	43/3	φ Ζ 13	0664	φ1/3 1001
Date of first delivery	1983		—	1981
Number installed to date	—		I—	Not supplied
COMMENTS				
		1		
		Į	Į	
		1		
	1	1	1	

WORD LENGTH MAIN MEMORY DISK STORAGE CAPACITY NO. WORKSTORAGE CAPACITY DISK STORAGE CAPACITY DISK STORAGE CAPACITY ACRET MARKET B bits 22AMS 22AMS St5,000-550,000 St5,000-550,000 St5,000-550,000 Office Automation 16/32 bits MM69,200MB St5,000-510,000 St2,000-5150,000 St2,000-5150,000 St2,000-5150,000 St2,000-5150,000 St2,000-5150,000 Bater Parket manufacturer and model Hardware floating point 16/32 bits MM69,200MB St2,000-5150,000 St2,000-5150,000 St2,000-5150,000 Bater Parket me clock or timer Std. 16/32 bits MM680108 kinel 8286 Motorola 68010 None None None None None None None None	nputers)
MAIN MEMORY 256KB-512KB 256KB-512KB 1MB-MB 1MB 1MB 1MB 1	
Disk StorARGE CAPACITY 22MB 22MB 22MB 22MB-342MB 40MB-300MB B4MB-1GB PRICE RANGE 14 Up to 100 \$25,000-\$150,000 \$560,000-\$100.00 \$26,000-\$100.00	
NO. WORKSTATIONS SUPPORTED 14 Up to 100 Up to 100 State State Support State S	
PRICE FANGE: Sits 000-\$50,000 From \$13,950 \$25,000:510,000 Large Business Site 000-\$10,000 CPU manufacturer and model Intel 8085 Intel 8085 Mice Automation	
TARGET MARKET Office Automation Office Automation Large Business General purpose CENTRAL PROCESSOR Intel 8085 Intel 8085 M 68010 & Intel 8286 Moreola 68010 CPU manufacturer and model None None Office Automation Processing None Battery backup None None None Office Automation Processing None CPU quantification, nanoseconds 167 167 167 Intel 8085 None Non	200
CENTRAL PROCESSOR Intel 8085 Intel 8085 Moreal 8085 Morola 60010 & Intel 8286 Mororola 60010 CPU anufacturer and model None None Opt. Std; Yill ups Battery backup Inor If7 I Std; Std. CPU cycle time, nanoseconds I - - - Bytes fetched per cycle - - - - - Cycle/access time, nanoseconds - - - - - Cycle/access time, nanoseconds - - - None - Nore None None - None - None Increment size, bytes None None - None - None NPUT/OUTPUT CONTROL None - - 20M bytes/sec. 2.5M bytes/sec. COMMUNICATIONS 6 6 6 Variable 40 Aynchronous Opt. 9.6K bps Std. 9.6K bps Opt. 300-9.6K bps Opt. 10 19.2 <t< td=""><td></td></t<>	
CPU manufacturer and model Intel 8085 Intel 8085 M 68010 & Intel 8286 Monoplant Board Hardware flock or timer None None None Opt. Std. 'full ups Battery backup None None None Opt. Std. 'full ups Battery backup None None None Opt. Std. 'full ups Real-time clock or timer Std. 2 MAIN STORAGE None None None None None None None <td></td>	
Hardware floating pointNoneStd. (III upsStd. (IIII upsStd. (IIIII upsStd. (IIII upsStd. (IIII upsStd. (IIII upsStd. (IIIII upsStd. (IIIIIIIIII upsStd. (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	J
Battery backupNoneNoneNoneOpt.Std.Std.CPU cycle time, nanoseconds167167100MAN STORAGE100Bytes fatched per cycle2Memory accessCycle jaccess time, nanosecondsNoneNoneStorage protectionNoneNoneNoneNoneNoneIncrement size, bytes128K128K128K1MBCache memory, bytesNoneNoneNoneNoneNoneNo. of 1/O channels4VariableUnlimitedData transfer rate20M bytes/sec.2.5M bytes/sec.COMMUNCATIONS65Variable40Opt., 30-9.6K bpsMax. number of lines6Std., 9.6K bpsOpt., 300-9.6K bpsOpt.; up to 500SynchronousOpt., 8.6K bpsStd., 9.6K bpsOpt., 300-9.6K bpsOpt.; up to 500Type of LAN supportedOmnlink2770/2780/3780, 2776, 2780/3780, 3776,X.25, SNAType of LAN supportedFixed: 22MB Winchester74.5MB disk packFixed: 40-80/200MBFujitsu 8": 84MEDisks supported120-cps120-cps40 cpsJisks supported500/600/1600 bpi1600 bpi1600 bpiSerial printers100-cps120-cps45-220 cpsLine printers <td< td=""><td></td></td<>	
Real-lime clock or timer CPU cycle timer, nanoseconds Std. Std.	
CPU orgle time, nanoseconds 167 167 167 167 100 MAN STORAGE — — — 2 Bytes fatched per cycle — — — — 2 Cycle/access time, nanoseconds — — — — — — Storage protection None None — — — — Increment size, bytes 128K 128K 128K — None None None No. of I/O channels 4 — — 20M bytes/sec. 2.5M bytes/sec. 2.5M bytes/sec. COMMUNICATIONS 6 6 Variable 40 0pt. up to 500 Asynchronous Opt. 9.6K bps 5td. 9.6K bps Opt. 300-9.6K bps Opt. up to 500 Asynchronous Opt. 9.6K bps 5td. 9.6K bps Opt. 300-9.6K bps Opt. up to 500 Type of LAN supported 2770/2780/3780, 2774, 2780/3780, 2776, No Y280/3780, 3276, SDL C Y280/3780, 3276, No Type of LAN supported Fixed: 22MB Winchester 786/3780, 3276, SDL C Y280/3780, 1457 Y280/3780, 3776, No BM 3270 emulation Yes Yes Yes Yes Yes Yes PeriHeFRAL Call Differ Ado cps 40 cps </td <td></td>	
WAIN STORACE Image: Construction Image: Construction Image: Construction Image: Construction Bytes fetched per cycle 2 Cycle/access time, nanoseconds Cycle/access time, nanoseconds Cycle/access time, nanoseconds Cache memory, bytes None None None Increment size, bytes 128K 128K None No. of I/O channels 4 Variable Unlimited Data transfer rate 20M bytes/sec. 2.5M bytes/sec. COMMUNICATIONS 6 6 Variable 40 Synchronous Opt. 9.6K bps 5td. 9.6K bps Opt. 300-9.6K bps Opt. 10 to 10.0 Type of LAN supported Orminink Cr3500, SNA, SDLC Cr380/3780/370, 3776, X25, SNA X25, SNA R/E terminals emulated 2780/3780, CDC, UT200 Yes Yes Yes Pinters 120-cps 120-cps 42-cps 42-cps 42-cps Liter quality printers 120-cps 120-cps 42-cps 45-220 cps Liter qualit	
Bytes fisched per cycle	
Memory access — — — — — — — — — — — — — — — — — …	
Cycle/access time, nanoseconds Std.; parity Increment size, bytes 128K 128K None None None Cache memory, bytes None None 20M Variable Unlimited Data transfer rate 20M Variable 40 20M bytes/sec. 2.5M bytes/sec. Community Opt. 9.6K bps Std., 9.6K bps Opt., 300-9.6K bps Opt.: up to 500 Asynchronous Opt. 9.6K bps Std., 9.6K bps Opt., 300-9.6K bps Opt.: up to 500 Asynchronous Opt. 9.6K bps Std., 9.6K bps Opt.: up to 500 X2750/3780, X2750/3780, X2750, X25, SNA Type of LAN supported Omnilink Crossoo, SNA, SDLC SNA, SDLC SNA Std. Std. Serial printers 120-cps 120-cps 46-220 cps Letter quality printers 40 ops 40 ops 40 ops Line printers 300/600/1000 lpm 300/600/1000 lpm 300/600/1000 lpm Compilers 00h/s00/600 pi 100 ppi <	
Storage protection Increment size, bytesNoneNoneNoneStd: jparity image: protection interment size, bytesStd: jparity image: protection image: protection image: protectionStd: jparity image: protection image: protection image: protectionStd: jparity image: protection image: protectionStd: jparity image: protection image: protectionStd: jparity image: protection image: protectionStd: jparity image: protectionUnlimited image: protectionStd: jparity image: protectionStd: jparity image: protectionUnlimited image: protectionStd: jparity image: protectionStd: jparity image: protectionUnlimited image: protectionStd: jparity image: protectionStd:	
Increment size, bytes 128K 128K None 148K None 140 None 1	
Cache memory, bytes INPUT/OUTPUT CONTROL INPUT/OUTPUT CONTROLNone—NoneINPUT/OUTPUT CONTROL No. of I/O channels4——VariableUnlimitedData transfer rate Data transfer rate Asynchronous——20M bytes/sec.2.5M bytes/sec.COMMUNICATIONS Max. number of lines66Variable40Synchronous Asynchronous Protocols supported0pt. 9.6K bps0pt. 9.6K bps0pt. 300-9.6K bps0pt. 300-9.6K bps0pt. 10 to 500Asynchronous Type of LAN supported2770/2780/3780, 27374, 2270/3780, 2720, 3274, SDLC, HASP2270/3720/3780, 2780/3780, 2780/3700, 3776, 2780/3780, CDC, UT200X.25, SNAType of LAN supported BLE terminals emulated Disks supported2780/3780, CDC, UT2002780/3780, HASP 2780/3780, CDC, UT2002780/3780, CDC, UT200SNA, SDLC 2780/3780, CDC, UT200Ethermet YesType of LAN supported Disks supportedFixed: 22MB Winchester 40 cps2780/3780, CDC, UT200YesYesSerial printers Letter quality printers Letter quality printers B00/1600 bpi120-cps40 cps40 cps-Johres Other perpherals supported15MB NoneNone300/600/1000 lpm300/600/1000 lpm-Rei-to-reel tape drives SOFTWARE AssemblerOnly in CP/M 2.2 ACDB01.3/L2000, CP/M 2.2NoneMeso0-Operating system Diatabase management system Diatabase management systemMultitasking-NT 4.1 NoMultitasking No dBASE II using CP/MMultitasking No dBASE II using CP/M <td< td=""><td></td></td<>	
INPUT/OUTPUT CONTROLInternational and the second secon	
No. of I/O channels4—VariableUnlimitedData transfer rate——20M bytes/sec.2.5M bytes/sec.OMUNICATIONS66Variable40Max. number of lines56Std., 9.6K bpsOpt., 300-9.6K bpsOpt.; up to 500AsynchronousOpt., 9.6K bpsStd., 9.6K bpsOpt., 300-9.6K bpsOpt.; up to 500Protocols supported2770/2780/3780, 3774,2770/2780/3780, 2776, SNA, SDLCSNA, SDLCType of LAN supportedOmnilink2780/3780, CDC, UT2002780/3780, HASP2780/3700, 3776, YesRJE terminals emulated2780/3780, CDC, UT2002780/3780, HASP2780/3700, 3776, YesYesPreprietaryYesFixed: 22MB Winchester74.5MB disk packFixed: 40-80/200MBFujitsu 8": 84MEDisk supportedFixed: 22MB Winchester74.5MB disk pack45-220 cps—Line printers120-cps40 cps40 cps40 cps—Line printers800/1600 bpi300/600/1000 lpm300/600/1000 lpm31.5 ips; 1600/Strasming tape drives500/1600 bpiNone11/4"; 90 ipsSOFTWAREOnly in CP/M 2.2Only in CP/M 2.2NoneCobol, Fortran, CAcc98012/TLA2000, CP/M 2.2CP/M 2.2Only in CP/M 2.2NoneCobol, Fortran, CAcc98012/TLA2000, CP/M 2.2Multitasking NoNoNoNoOperating system Principal industry applicationMultitasking CP/MNoMaS2E II using CP/MNoOther packag	
Data transfer rate COMMUNICATIONS——Zom Unit Term CommuneOnlinitied CommuneMax. number of lines66Variable40SynchronousOpt. 9.6K bps5td. 9.6K bpsOpt., 300-9.6K bpsOpt.; up to 500AsynchronousOpt., 9.6K bpsStd. 9.6K bpsOpt., 300-9.6K bpsOpt.; up to 500Protocols supported2770/2780/3780, 3774, 2770/2780/3780, CDC, UT2002780/3780, CDC, UT200Z780/3780, CDC, UT200Type of LAN supportedOmnilink 2780/3780, CDC, UT200Z780/3780, HASPZ780/3700, 3776X.25, SNAPGRIPHERAL EQUIPMENTDisks supportedFixed: 22MB WinchesterZ180/3780, HASPZ780/3700, 3776YesDisks supportedFixed: 22MB Winchester2280/0600/1000 lpm300/600/1000 lpmS00/600/1000 lpmSerial printers120-cps40 cps40 cps40 cpsLine printers300/600/1000 lpm300/600/1000 lpm300/600/1000 lpm31.5 ips; 1600/Streaming tape drives15MBNone1600 bpi1600 bpi14"; 90 ipsSOFTWAREOnly in CP/M 2.2Only in CP/M 2.2NoneNoneNoneNoneSOFTWAREOnly in CP/M 2.2Only in CP/M 2.2NoneKestime, multitask, NoNoOperating systemOnly in CP/M 2.2CP/M 2.2NoneNoneNoneOther packagesWord processing, Electronic mailWord processing, Electronic mailXMS, realtime, multitask, NoNoOther packagesWord processing, Electronic mail <td< td=""><td></td></td<>	
COMMUNICATIONSConstruction	
Max. number of lines66Variable40SynchronousOpt. 9.6K bpsStd. 9.6K bpsOpt., 300-9.6K bpsOpt., 10 to 500AsynchronousOpt. 9.6K bpsStd. 9.6K bpsOpt., 300-9.6K bpsOpt., 10 to 500Protocols supported2770/2780/3780, 3774, 3270, 3274, SDLC, HASPSNA, SDLCSNA, SDLCSNA, SDLCType of LAN supportedOmnilink VesOmnilink YesSNA, SDLCSNA, SDLCSNA, SDLCBM 3270 emulationYesYesYesYesYesPERIPHERAL EQUIPMENTDisks supportedFixed: 22MB WinchesterFixed: 22MB WinchesterFixed: 40-80/200MBFujitsu 8": 84MEDisks supportedFixed: 22MB Winchester74.5MB disk packFixed: 40-80/200MBFujitsu 8": 84MEActine printers120-cps120-cps40 cps	
Mathematical DrinesOpt, 9.6K bpsOpt, 9.6K bps	
Opt. 3-06 UpsJob S (Dpt. 3-06 UpsJob S (Dpt. 300-36K bpsOpt. 300-36K bps (Dpt. 300-36K bpsOpt. 300-36K bps (Dpt. 300-360, SNA, SDLCOpt. 300-36K bps (Dpt. 300-3776, No (Dpt. 300-3776, No (Dpt. 300-3776, No (Ps S)Opt. 300-376 (Ps S)No (Pt 19.2Type of LAN supported IBM 3270 area PERIPHERAL EQUIPMENT Disks supportedFixed: 22MB Winchester (Ps S)Fixed: 40-80/200MBFujisu 8": 84ME (Ps S)Serial printers Letter quality printers Letter quality printers Letter quality printers B00/1600 bpi100 ops (Dps S) (Dps S)40 cps (Dps S) (Do bpi	K hnc
Asymptotic on our Protocols supportedUpt., 3.0h pps 2770/2780/3780, 3774, 3270, 3274, SDLC, HASPStat., 3.0h pps 2770/2780/3780, 3774, 2770/2780/3780, 3274, SDLC, HASP OmnilinkUpt., 300-9.6K bps SNA, SDLCUpt., 300-9.6K bps X, 25, SNAType of LAN supportedOmnilink Damilink2780/3780, CC, UT200TC3500, SNA, SDLC OmnilinkSNA, SDLC ProprietarySNA, SDLC ProprietaryX, 25, SNAType of LAN supportedOmnilink VesOmnilink YesOmnilink YesProprietary YesEthernet YesDisk supportedFixed: 22MB Winchester 40 cps22MB Winchester, 40 cpsFixed: 40-80/200MB 40 cpsFujitsu 8": 84ME 40 cpsLine printers Reel-to-reel tape drives Other packages120-cps120-cps 40 cps40 cps 40 cpsMB per minute Other packages15MB NoneNone300/600/1000 lpm 1600 bpi300/600/1000 lpm 1600 bpi300/600/1000 lpm 1600 bpi31.5 ips; 1600/ Operating system Operating system Onter packagesOnly in CP/M 2.2 ACCBOL3/AL2000, CP/M 2.2Only in CP/M 2.2 ACCBOL3/TAL2000, CP/M 2.2Only in CP/M 2.2 ACCBOL3/TAL2000, CP/M 2.2NoneM 68000 Cobol, Fortran, C Basic, PascalUnix 4.28SD Unix 4.28SD Unix 4.28SDOperating system Operating system Other packagesWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailXMS, reatime, multitask Unix 4.28SD Office automation, Office automation, Office automation, Office automation, Office automation, Office	N DPS
Protocols supported2/1/0/2/80/3780, 3/74, (3/70,3776, 3/70,	.r ops
Type of LAN supported RJE terminals emulated IBM 3270 emulation PERIPHERAL EQUIPMENTOmnilink 2780/3780, CDC, UT200 YesITC3600, SNA, SDLC 2780/3780, HASP YesSNA, SDLC Proprietary YesEthernet NoDisks supportedFixed: 22MB Winchester 22MB Winchester22MB Winchester, 74.5MB disk packFixed: 40-80/200MB 40 cpsFujitsu 8": 84ME 120-cpsFixed: 40-80/200MB 40 cpsFujitsu 8": 84ME 40 cpsSerial printers120-cps120-cps45-220 cps 40 cps 1600 bpiLine printers300/600/1000 lpm 300/600/1000 lpm300/600/1000 lpm 300/600/1000 lpm300/600/1000 lpm 300/600/1000 lpm31.5 ips; 1600/ 1600 bpiSteraming tape drives Cassette/cartridge tape drives Other perpherals supported15MB NoneNone11MB per minute 300 cpm card readerNone11/4"; 90 ipsOperating system Operating sys. implemented in firmware Principal industry applicationOnly in CP/M 2.2 ACOBOL3/AL2000, CP/MOnly in CP/M 2.2 CP/MOnly in CP/M 2.2 ACOBOL3/AL2000, CP/MNo MasSE II using CP/MXMS, realtime, multitask No Unify General purpose office automation, personal computing TelephonyUnix 4.2BSD Office automation, office automation, office automation, personal computing	
Type of LAN supportedOmnilinkOmnilinkProprietaryEthernetRJE terminals emulated2780/3780, CDC, UT2002780/3780, HASP2780/3700, 3776NoIBM 3270 emulationYesYesYesYesPERIPHERAL EQUIPMENTDisks supportedFixed: 22MB Winchester74.5MB disk packFixed: 40-80/200MBFujitsu 8": 84MLSerial printers120-cps120-cps45-220 cps	
RJE terminals emulated IBM 3270 emulation2780/3780, CDC, UT200 Yes2780/3780, HASP Yes2780/3700, 3776 YesNo YesPEINPHERAL EQUIPMENT Disks supportedFixed: 22MB Winchester22MB Winchester, 74.5MB disk packFixed: 40-80/200MBFujitsu 8": 84MISerial printers Letter quality printers120-cps45-220 cpsLetter quality printers Letter quality printers300/600/1000 lpm300/600/1000 lpm300/600/1000 lpmSop 700/600/1000 lpm300/600/1000 lpm300/600/1000 lpm31.5 jps; 1600/ Reel-to-reel tape drives Cassette/cartridge tape drives1MB per minute1MB per minute18MB PCS, ASCII terminals 2500 telephone sets11/4"; 90 ipsSOFTWARE Departing system Operating system Other packagesOnly in CP/M 2.2 NoOnly in CP/M 2.2 NoNoneMultitasking NT 4.1 NoMultitasking NoMS, realtime, multitask NoMist 4.2BSD No NoOther packagesWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailZMB/3780, CDC, UT200 YesOffice ware office automation, personal computing	
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Letter quality printers40 cps40 cps40 cps40 cpsLine printers300/600/1000 lpm300/600/1000 lpm300/600/1000 lpm300/600/1000 lpmReel-to-reel tape drives800/1600 bpi800/1600 bpi1600 bpi31.5 ips; 1600/Streaming tape drives1MB per minute1MB per minute18 MB1/4"; 90 ipsCassette/cartridge tape drives1MB per minute1MB per minute48 MB1/4"; 90 ipsOther perpherals supportedOnly in CP/M 2.2Only in CP/M 2.2NoneM 68000SOFTWAREOnly in CP/M 2.2Only in CP/M 2.2NoneCobol, Fortran, CC, Fortran, PasciOperating systemOnly 1.2CP/M 2.2CP/M 2.2Basic, PascalUnix 4.2BSDNoOperating systemMultitasking-NT 4.1MultitaskingNoNoNoNoOther packagesWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailOffice automation, office automation, personal computingOfficeware office automation	
Line printersNo opNo opNo opNo opNo opNo opReel-to-reel tape drives300/600/1000 lpm300/600/1000 lpm300/600/1000 lpm31.5 ips; 1600/Streaming tape drives15MBNone1600 bpi1600 bpiCassette/cartridge tape drives1MB per minute1MB per minute148MBOther perpherals supportedNone300 cpm card reader18 MP Cs, ASCII terminalsSOFTWAREOnly in CP/M 2.2Only in CP/M 2.2NoneM 68000CompilersOnly in CP/M 2.2CP/M 2.2NoneM 68000Operating systemMultitasking-NT 4.1MultitaskingXMS, realtime, multitaskUnix 4.2BSDOperating systemNoMaSE II using CP/MNoInformexUnifyOther packagesWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailOffice automation, opersonal computingOffice ware office automation	
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Solitating tape drivesINDINDINDINDINDINDINDCassette/cartridge tape drives1MB per minute1MB per minute300 cpm card reader1600 opi1/4"; 90 ipsOther perpherals supportedNone300 cpm card readerIBM PCs, ASCII terminals 2500 telephone sets1/4"; 90 ipsSOFTWARE Assembler CompilersOnly in CP/M 2.2 ACOBOL3/AL2000, CP/M 2.2Only in CP/M 2.2 CP/M 2.2NoneM 68000 Cobol, Fortran, C Basic, PascalOperating system Operating system Principal industry applicationMultitasking-NT 4.1 dBASE II using CP/MMultitasking Mod dBASE II using CP/MXMS, realtime, multitask No dBASE II using CP/MUnix 4.2BSD No dBASE II using CP/MOther packagesWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailOffice automation, personal computingOffice ware office automation	3200 bpi
Other perpherals supported None 1016 per finitute 1016 p	
Other perpresent supportedNoneM 68000SOFTWARE Assembler CompilersOnly in CP/M 2.2 ACOBOL3/AL2000, CP/M 2.2Only in CP/M 2.2 ACOBOL3/AL2000, CP/M 2.2Only in CP/M 2.2 ACOBOL3/TAL2000, CP/M 2.2None Cobol, Fortran, C Basic, PascalM 68000 C, Fortran, C Cobol, BasicOperating system Operating system Database management system Principal industry applicationMultitasking-NT 4.1 Makes E II using CP/MMultitasking No dBASE II using CP/MXMS, realtime, multitask No dBASE II using CP/MUnix 4.2BSD No dBASE II using CP/MOther packagesWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailOffice automation, personal computingOfficeware office automation	
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Assembler Only in CP/M 2.2 Only in CP/M 2.2 Inone Cobol, Soft Cobol, Fortran, C C, Fortran, Pasc. Cobol, Basic, Pascal Cobol, Basic Cobol, Basic Unix 4.2BSD No Inormex Unify General purpose General purpose General purpose General purpose Inormex Unitornation Inormex Unitornation Inormex Inormex Unitornation Inormex Inormex Inormax Inormax Inormax I	
Compliers ACOBOL3/AL2000, CP/M 2.2 ACOBOL3/AL2000, CP/M 2.2 ACOBOL3/AL2000, CP/M 2.2 Compliers Compli	
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Operating system Operating system Database management system Principal industry applicationMultitasking-NT 4.1 No dBASE II using CP/MMultitasking No dBASE II using CP/MXMS, realtime, multitask No dBASE II using CP/MUnix 4.2BSD No Unify General purpose personal computing TelephonyOther packagesWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailWord processing, Electronic mailUnix 4.2BSD No Unify General purpose personal computing Telephony	
Operating sys. implemented in firmware Database management system Principal industry application No No No Other packages Word processing, Electronic mail Word processing, Electronic mail No No	
Database management system Principal industry application dBASE II using CP/M dBASE II using CP/M Informex Office automation, personal computing Unify General purpose Other packages Word processing, Electronic mail Word processing, Electronic mail Word processing, Electronic mail Informex Office automation, personal computing Unify General purpose office automation, personal computing	
Principal industry application Office automation, gersonal computing Other packages Word processing, Electronic mail	
Other packages Word processing, Word processing, Electronic mail Electronic mail Electronic mail Electronic mail	
Other packages Word processing, Word processing, Electronic mail Electronic mail Officeware office automation	
Electronic mail	
PRICING & AVAILABILITY	
Basic system configuration and price 256K RAM, O/S 4.1, 256K RAM, O/S 4.1, 1 primary processor with 2 CPUs, each with	ith 1MB,
memory parity, 22MB memory parity, 22MB 2MB memory, 1 appl. 2 disks, each wi	ith 84MB,
disk, 15" CRT, disk, 15" CRT, processor with 1MB 1/4" cartridge ta	ape,
1 cartridge—\$14,950 1 cartridge tape—\$19,950 memory, 40MB disk, 1 LAN I/O processor, 1	6 ports.
link. 1 LAN link dual uninterruptil	ble
interface unit 1 M420 power—\$88 90	0
terminal_\$25,000	-
Mo maintenance of basic configuration \$507 \$696	
Date of first delivery [1983] [1981] [1965] [1964	
Number installed to date Not supplied Not supplied 200	
COMMENTS	
Twiemory per processor. Fault tolerant, us	
Additional application serviceable, unin	ret-
processors can be added ruptable power.	
to the system. language system	iS.

MANUFACTURER AND MODEL	PERQ Systems Corporation LN3100	PERQ Systems Corporation LN3200	PERQ Systems Corporation LN3300	Point 4 Data Corp. Mark 2T
WORD LENGTH	16 bits	16 bits	16 bits	16-bits
MAIN MEMORY	1MB-2MB	1MB-2MB	1MB-2MB	64KB-128KB
DISK STORAGE CAPACITY	43MB-144MB	43MB-144MB	43MB-144MB	19MB-92MB
NO. WORKSTATIONS SUPPORTED	1	1	1	7
PRICE RANGE	\$25,000-\$40,000	\$25,000-\$40,000	\$65,000-\$80,000	\$8,995-\$20,000+
TARGET MARKET	Computer-Aided printing	Computer-aided printing and publishing	Computer-Aided printing and publishing	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Point 4 Mark 2
Hardware floating point	None	None	None	No
Battery backup	None	None	None	None
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds MAIN STORAGE	170	170	170	600
Bytes fetched per cycle	4	4	4	2
Memory access	200M bits/sec.	200M bits/sec.	200M bits/sec.	16
Cycle/access time, nanoseconds	680	680	680	400/200
Storage protection	Std.	Std.	Std.	None
Increment size bytes	1MB-2MB	1MB-2MB	1MB-2MB	64K
Cache memory bytes	16K	16K	16K	None
No of I/O channels	6	6	6	63
No. of 1/0 charmens	10M bits/sec	10M bits/sec	10M bits/sec	1 67MB/sec
	, ow bits/ sec.	, ON DIG/ Sec.		
	2	2	2	7
IVIAX. NUMBER OF IINES	2 Stal 10 2K have	End 10 2K has	Std 19 2K has	No
Synchronous	10.2K DPS	10.0., 19.2K DPS	Std 10 2K bas	Std O GK has
Asynchronous Protocols supported	2780/3780	2780/3780	2780/3780	None
Type of LAN supported	Ethernet	Ethernet	Ethernet	None
R IE torminals omulated	2780/3780	2780/3780	2780/3780	None
IBM 2270 amulation	No	No	No.	No
		140		110
Disks supported	43-144MB	43-144MB	43-144MB	Winchester 13MB-46MB
Serial printers	200 cps	200 cps	200 cps	20-180 cps
Letter quality printers	40 cps	40 cps	40 cps	75 cns
Line printers	1000 lpm	1000 lpm	1000 lpm	200-600 Inm
Deel te reel tene drivee	Nepe	Nono	Nono	None
Streaming tang drives	AE inc. 22MP	AF inc. 22MP	45 ipg 22MB	90 inc: 20MP
Streaming tape onves	None	AS IDS, 221VID	Nono	None
Other perpherals supported	1MB Diskettes	1MB Diskettes	1MB Diskettes	none
SOFTWARE				
Assembler	PERQ Microcode	PERQ Microcode	PERQ Microcode	Assembler
Compilers	Pascal Fortran 77 C	Pascal Fortran 77 C.	Pascal, Fortran 77, C.	Basic
Compliera	Lisp	Lisp	Lisp	
Operating system	Realtime	Realtime	Realtime	IRIS timesharing
Operating system	No	No	No	No
Database management system	No	No	No	None
Principal industry application	Computer-aided printing	Computer-aided printing	Computer-aided printing	General Purpose
rinsparindustry application	and nublishing	and publishing	and publishing	Business
Other packages	Decision support eve	Decision support eve	Decision support eve	Electronic Office
oniai packages	CAD/CAM Flac Pub	CAD/CAM research and	CAD/CAM Flec Pub	Force Application
	Research and Education	education word proc	Research and Education	generator
		Foundation, word proc.		Serierator
Ricing & AVAILABILITY	CPUL 1MP mamony 42MP	CPU 1MP momony 42MP	CPU IMP momony A2MP	CPUL 64KB memory 19M
Basic system configuration and price	dial, tablet detashable	diale tablet detectable	diale tablet detashable	diak 20MB attracting
	disk, tablet, detachable	disk, tablet, detachable	lisk, lablet, detachable	tana 4 nome \$0.005
	keyboard, Ethernet-	keyboard, Ethernet-	teo 705	tape, 4 ports
	\$29,200	\$27,300	\$69,795	
Mo maintenance of basis configuration	\$280	\$260	\$700	Contact vendor
No. maintenance or pasic configuration	Marah 1992	March 1983	1984	Eebruary 1984
Number installed to date	Over 2500	Over 2500	Over 2500	200
	A landsonna crantica	A portrait graphics	A color graphics	200
COMMUNEIN 1 3	A lanuscape graphics	workstation	workstation	1
	workstation	WORKSLOUT	WOIKSLOUI	
	1	1	}	

MANUFACTURER AND MODEL WORD LENGTH MAIN MEMORY DISK STORAGE CAPACITY	Mark 3	Mark 5	Mark 9	Polyette
WORD LENGTH MAIN MEMORY DISK STORAGE CAPACITY	16 bits 64KB-128KB	16 bits	16 bits	16 bit
	35MB-336MB	128KB 35MB-672MB	256KB-512KB 35MB-672MB	256KB-1.7MB 10MB-160MB
IO. WORKSTATIONS SUPPORTED PRICE RANGE FARGET MARKET	7 \$14,850-\$30,000+ Business	32 \$26,700-\$100,000+ Business	72 \$30,900-\$100,000+ Business	16 \$15,000-\$25,000 Trans. Process./On-line
CENTRAL PROCESSOR				Business Applications
CPU manufacturer and model Hardware floating point	Point 4 Mark 3 No	Point 4 Mark 5 Opt.	Point 4 Mark 9 Opt	AMD-290 bit slice No
Battery backup Beal-time clock or timer	None	Std.	Std.	Opt.
CPU cycle time, nanoseconds MAIN STORAGE	600	400	300	200
Bytes fetched per cycle	2	2	2	2
Memory access	16	16	16	90MB/sec.
Cycle/access time, nanoseconds	400/200	400/200	200/120	400/200
Storage protection	None	None	Std.	Std.
Increment size, bytes	64K	Not applicable	256K	512K
Cache memory, bytes NPUT/OUTPUT CONTROL	None	None	None	2К
No. of I/O channels	63	64	64	32
Data transfer rate COMMUNICATIONS	1.67MB/sec.	2.5MB/sec.	2.5MB/sec.	1M byte/sec.
Max. number of lines	7	32	72	100
Synchronous	No	No	No	Opt.; 9.6K bps
Asynchronous Protocols supported	Std., 9.6K bps None	Std., 19.2K bps None	Std., 19.2K bps None	Std.; 19.2K bps 2780/3780/SDLC
Type of LAN supported	None	None	None	Polynet
RJE terminals emulated	None	No	No	2780/3780
	INO	NO	NO	Yes
Disks supported	Winchester 35MB-168MB	SMD/CMD: 35MB-168MB	SMD/CMD: 35MB-168MB	Winchester: 20-85MB
Serial printers	20-180 cps	20-180 cps	20-180 cps	up to 2400 cps
Letter quality printers	75 cps	75 cps	75 cps	up to 200 cps
Line printers	200-600 lpm	200-600 ipm	200-600 lpm	up to 1200 lpm
Reel-to-reel tape drives	None	100 ips	100 ips	None
Streaming tape drives	90 ips; 45MB	90 ips; 45MB	90 ips; 45MB	None
Cassette/cartridge tape drives Other perpherals supported	None Diskette	90 ips; 45MB —	90 ips; 45MB Diskette	90 ips; 8120 bpi
SOFTWARE				
Assembler	Assembler	Assembler	Assembler	Assembler
Compilers	Basic	Basic	Basic	Cobol, Fortran, Pascal
Operating system	Iris timesharing	Iris timesharing	Iris timesharing	Multitasking
Operating sys. implemented in firmwar	e No	No	No	Partially
Database management system	None	None	None	Included in software
Principal industry application	General Purpose Business	General Purpose Business	General Purpose Business	Business systems
Other packages	Electronic Office,	Electronic Office,	Electronic Office,	Word Proc., applications
	Force Application generator	Force Application generator	Force Application generator	gen., BLIS Cobol Trans- lator, accounting
KICING & AVAILABILITY				
Basic system configuration and price	disk, 20MB streaming tape, 4 ports—\$14,850	35MB disk, 8 ports, 20MB streaming tape	CPU, 256KB memory, 35MB disk, 20MB stream- ing tape, 8 ports	256KB, HOST processor, 20MB disk, 20MB tape cassette, high speed
		\$20,700	\$30,500	4 RS-232 asynch. ports; operating system plus one compiler—\$14,950
Mo. maintenance of basic configuratio	Contact vendor	Contact vendor	Contact vendor	\$150
Date of first delivery	May 1981	June 1979	July 1984	December 1983
COMMENTS	2000	Disk caching feature optional.	Disk caching feature optional.	3 User processor may be added or deleted without
]			software changes—
				one to 7 CPUs
				one to 7 CPUs
				one to 7 CPUs

PARTER LENGTH WAIN MEMORY WAIN MEMORY DISK STORAGE CAPACITY DISK	UND ELECTIF 6 Dis 6 Str 9 Str Str 16 Dis 16 Dis </th <th>MANUFACTURER AND MODEL</th> <th>PolyComputers Inc. Poly-X</th> <th>PolyMorphic Systems System 8813</th> <th>PolyRianda, Inc. Dancer 1703H2C</th> <th>Rexon Business Machines Corp. RX100</th>	MANUFACTURER AND MODEL	PolyComputers Inc. Poly-X	PolyMorphic Systems System 8813	PolyRianda, Inc. Dancer 1703H2C	Rexon Business Machines Corp. RX100
With Version With Version Versio Version Version Version Version Version Version Versio	An A Endotry 12 Sub 12 Sub 12 Sub 12 Sub 12 Sub 10 MB-300/MB 10 MB		16 bits	16 bits	16 hits	16 bite
 Dirak TOTRACT CAPACITY TO TOTAC APACITY TO T	Sind at STORAGE 2:600 5000-500008 5000-500008 10000-255.0008 NORESTATIONS SUPPORTS 256 16 50.000-580.0000 100.000 RAGET MARKET Transaction Processing/ 50.000-580.000 52.0000-585.0005 10.000-255.000 RITEAL PROCESSOR Chaine Bioline, Applica Egistering 52.0000 52.0000-585.0005 RITEAL PROCESSOR Chaine Bioline, Applica F9.445 51.0000-785.0000 RITEAL PROCESSOR Chaine Bioline, Applica Kone None None RITEAL PROCESSOR Chaine Bioline, Applica Kone None None None RITEAL PROCESSOR Chaine Bioline, Applica Kone None None None RITEAL PROCESSOR Chaine Micro, View 20 2 2 2 RITEAL PROCESSOR Sold Std. Std. Std. Std. RITEAL PROCESSOR Sold None None Std. Std. Std. RITEAL PROCESSOR Sold None Std. Std. </td <td></td> <td></td> <td>E 1 2KD AMP</td> <td>DECKD IMP</td> <td>DEEKP DEOKP</td>			E 1 2KD AMP	DECKD IMP	DEEKP DEOKP
Disk structure (LAPACIE (LAPACIE) 228 1 AddR-300MB 1 AddR-300MB </td <td>Bits St DRAGE CARACT Y 228 1,0001-20004 1000-30004 1000-30004 RECE RANGE 10001-30004 550-000-5000 514.000-2500 514.000-2500 ARGET MARKET Transaction Proceeding/ Transaction Proceeding/ Draine Stat. Applications, Education, Basiness Approfessional State Pockace 1000-30004 500-000-1000 514.000-25000 Paraller Models AMD 200 1bit alice No No 1000-30004 500-000-1000 514.000-25000 Paraller Models AMD 200 1bit alice No No No 500 512.000-1000 513.000-1000 Paraller Models 200 125 300 513.000-1000 513.000-1000 513.000-1000 Paraller Models 200 125 300 513.000-1000 513.0000 513.0000-1000 Paraller Models 200 200 2 2 2 2 2 AMD 200 (200 No No No No No No No Control Model 200 (200 No No No No No Control Model 200 (200 No No No No No Control Model 200 (200-0000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-1000-10000-10000-10000-10000-1000-1000-10000-10000-10000-100000-</td> <td></td> <td>4.3IVIB</td> <td>512KB-4IVIB</td> <td>250KB- IIVIB</td> <td>250KB-900KB</td>	Bits St DRAGE CARACT Y 228 1,0001-20004 1000-30004 1000-30004 RECE RANGE 10001-30004 550-000-5000 514.000-2500 514.000-2500 ARGET MARKET Transaction Proceeding/ Transaction Proceeding/ Draine Stat. Applications, Education, Basiness Approfessional State Pockace 1000-30004 500-000-1000 514.000-25000 Paraller Models AMD 200 1bit alice No No 1000-30004 500-000-1000 514.000-25000 Paraller Models AMD 200 1bit alice No No No 500 512.000-1000 513.000-1000 Paraller Models 200 125 300 513.000-1000 513.000-1000 513.000-1000 Paraller Models 200 125 300 513.000-1000 513.0000 513.0000-1000 Paraller Models 200 200 2 2 2 2 2 AMD 200 (200 No No No No No No No Control Model 200 (200 No No No No No Control Model 200 (200 No No No No No Control Model 200 (200-0000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-10000-1000-10000-10000-10000-10000-1000-1000-10000-10000-10000-100000-		4.3IVIB	512KB-4IVIB	250KB- IIVIB	250KB-900KB
NO. WORKSTATIONS SUPPORTED 266 36 32 <t< td=""><td>0. WORKSTATIONS SUPPORTED 256 320 32<!--</td--><td>DISK STORAGE CAPACITY</td><td>2GB</td><td>1.6MB-300MB</td><td>80MB-300MB</td><td>10MB30MB</td></td></t<>	0. WORKSTATIONS SUPPORTED 256 320 32 </td <td>DISK STORAGE CAPACITY</td> <td>2GB</td> <td>1.6MB-300MB</td> <td>80MB-300MB</td> <td>10MB30MB</td>	DISK STORAGE CAPACITY	2GB	1.6MB-300MB	80MB-300MB	10MB30MB
PRICE RANGE RANGET MARKET \$30,000 > 100,000 Transaction Process Description \$36,000 > 30,000 Description \$36,000 > 30,000 Builess Application \$36,000 > 30,000 Builess Application \$36,000 > 30,000 Builess Application \$36,000 > 45,000 Builess Application \$10,000 > 10,000 Builess Application \$10,000 > 10,000 = 10,000 Builess Application \$10,000 > 10,000 = 10,000 Builess Application \$10,000 Builess Application <t< td=""><td>RICE TANNE STORAGE MARKET Transaction Processing Biology Science Scien</td><td>NO. WORKSTATIONS SUPPORTED</td><td>256</td><td>16</td><td>32</td><td>1-8</td></t<>	RICE TANNE STORAGE MARKET Transaction Processing Biology Science Scien	NO. WORKSTATIONS SUPPORTED	256	16	32	1-8
CARGE TMARKET Transcription Processing/ Online Bus Application, ENTRAL PROCESSOR Business, Education, Double Bus Application, Business, Education, Business, Educa	ARGET MARKET Transcription Processing/ Online Bits. Application Business, Education, Business, Educ	PRICE BANGE	\$30,000-\$100,000	\$6,000-\$80,000	\$26,000-\$45,000	\$14,000-\$25,000
Conduct number of large grant and constructions Const	Online TriAll, Processing Online Bus, Applica Engineering Dockson, Matchewer Dockson, Matchewer CPU mainfacturer and model AMD 2301 bit slice Note F9.445 Intel IAPX 166 Note	TARGET MARKET	Transaction Processing/	Business Education	Business/medical	Business & professional
ENTRAL PROCESSOR AMD-2801 bit allos Fel AAX186 Forme Intel APX186 None Hardware floating point None None None None None Statistics Statistics Statistics Statistics Statistics Statistics CPU cycle inne, nanoseconds 200 125 300 127 300 127 Strate protection 200 125 300 125 300 125 Strate protection 312 24 Mytex/sec. 160 52 Colument for transfer rate 200 Statistics 128 128 128 Data transfer rate 200 27 200 22 14 100 One 100 Statistics 128 128 14 128 Max turnibul of lines 20 2780/3780/SDLC 200/120 200 2780/3780/SDLC Max turnibul of lines 2780/3780/SDLC 2780/3780/SDLC 2780/3780/SDLC 2780/3780/SDLC 2780/3780/SDLC Data transfer rate 2780/3780/SDLC 2780/3780/SDLC 2780/3780/SDLC 2780/3780/SDLC None 2780/3780/SDLC 2780/3780/SDLC 2780/3780/SDLC 2780/3780/SDL Data transfer rate 2780	EHTRAL PROCESSOR AMD 2901 bit slice AMD 2901 bit slice Feld APX 165 Feld APX 165 None None None More and model AMD 2901 bit slice A None None None None More and More and Model A Std. Std. <t< td=""><td></td><td>On-line Bus. Applica.</td><td>Engineering</td><td>Buoinede, medical</td><td>data processing</td></t<>		On-line Bus. Applica.	Engineering	Buoinede, medical	data processing
CPU manufacturer and model Advards floating point Advards floating point Advards floating point Advards floating point Advards floating point Advards floating point Battery maching Battery maching Batt	CPU manufacture and model A00-2301 bit siles A00 EAC in an inter and model A0 EAC in the inter B086-2 EAC inter EAC inte	CENTRAL PROCESSOR				
Hardware (basing point Reat-time (bok or timer Reat-time (bok or timer Reat-time (bok or timer Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Opt. Stid.No. Stid.<	Hadware ficating point Read-time clock or time Read-time clock or time Read-time clock or time Read-time clock or time Std.	CPU manufacturer and model	AMD-2901 bit slice	Intel iAPX186	F 9445	Intel 8086-2
Battery backup and Battery backup of the CPU systel min, nanoseconds Opr. No. CPU systel min, nanoseconds 200 125 300 137 Physe funded ger cycle AMN STORAGE Stocage protection increment size, hyses 2 2 2 2 2 2 2 2 2 2 2 2 2 300 137 Stocage protection increment size, hyses 512K 2 2 4M tytes/sec. 150 542 2 2 4M tytes/sec. 150 542 2 14 None	Battery backup Opt. Opt. Opt. No. CPU cycle (arcest time, nanosecords 200 125 3000 137 CPU cycle (arcest time, nanosecords 200 125 3000 137 Martoy access 200 20 4M bytes/sec. 166 57 Storage protection 532 200 50 542 200 Storage protection 532 200 50 542 200 Calle memory bytes 20 200 50 542 200 Calle memory bytes 20 20 22 200 50 542 200 564 <	Hardware floating point	No	None	None	No
Bate Hume Code Std.	Side and a second secon	Pattanu baskun	Ont	Ont	Ont	No
Head time clock or timer Std.	State	battery backup	lopi.	lopt.		
CPU cycle ims, nanoseconds 200 125 300 137 Marco y socks 2 2 2 2 Memory socks 900/8/sec. 400/200 150 54.2 Storage protection Std. None None None Storage protection Std. None None None Storage protection Std. None None None None 100 54.2 20 140 Cache memory, bytes 2 2 2 14 To as fix	CPU order time, nanoseconds 200 125 300 137 Mast STDALE 2 2 2 7.38M bits/sec. Manory access 200/200 500 150 542 Storage protection 512 X 256K 16 7.38M bits/sec. Storage protection 512 X 256K 16 7.38M bits/sec. Main remement size, fyrise 21 24 24 Mar. runnels 32 2 14 Data transfer rate 100 50 64 Avanchronics 501:18 X fops 501:18 X fops 501:18 X fops Storage protection 502:19 X fops 501:19 X fops 501:19 X fops Mar. runnels of lines 100 501:19 X fops 501:19 X fops Storage protection 502:19 X fops 501:19 X fops 501:19 X fops Fried LAN supported 2760/3780 / Nore Nore No Strain printers 105 500MB Cer: SMB 60MB; foppys: Fixed: 130MB 100/88; foppys: Fixed: 130MB 100/88; foppys: Fixed: 130MB 100/88; foppys: Fixed: 130MB 100/88; foppys: Strain printers 100 500 Fixed 25 ips: 1600 bpi 30 ips Strain printers 80 ips: 1820bpi 80 ips: 1800/88; foppys: 120 ops <td>Real-time clock or timer</td> <td>Std.</td> <td>Std.</td> <td>Std.</td> <td>Std.</td>	Real-time clock or timer	Std.	Std.	Std.	Std.
MAN STORAGE 2 2 2 2 2 Memory access 2008 fac: 400 fac: 500 fac: 150 762 Storage protection mease-onde 512 k 256 k 64K8 / 128 k 762 k Storage protection 512 k 256 k 64K8 / 128 k 624 k Cache memory, hytes 2 2 14 70 625 k NPUT/OUTPUT CONTROL 32 2 2 14 70 625 k None 100 100 6 64 9 Synchronous 351 19 2 k 18 k 19 k 100 Synchronous 512 k 19 k 19 k 100 Synchronous 511 19 2 k 19 k 100 10 k 100 Synchronous 2780/3780 k 100 k 100 10 k 100 10 k Synchronous 2780/3780 k 100 k 10	AM STORAGE Wenny access 2 2 2 2 Memory access 20MP/acc 4M hytes/sec. 150 Storage protection increment size, bytes 512K 256K 64KB/128KB 64KB/128KB Gache manory, hytes 512K 20KB/acc. 4M 70 622K PUT/OUTPUT CONTROL 2 2 2 24 70 625K bytes/sec. Max, number of lines 100 10 64 9 0pt; 2.400 bps Synchronus Spl: 13.2K bps 13.6 64 9 0pt; 2.400 bps Synchronus Spl: 13.2K bps Skl: 13.2K bps	CPU cycle time, nanoseconds	200	125	300	137
Bytes functed per cycle 2 2 2 2 2 2 2 2 2 2 2 38M bits/sec. 54.2 50.0 150 54.2<	Bytes fisched per cycle 2 33M bytes, 50M (yee, 50	MAIN STORAGE				
Memory nacesSOME/sec.4M bytes/sec.167.38M bits/sec.Cycle/access time, nanosecondsSid.NoneNoneNoneNoneStorage protectionSid.NoneNoneNoneNoneCache memory, tytes2X2AKNone10064X (pr.)Cache memory, tytes2X2AKNone100-0000000000000000000000000000000000	Memory access90MB/sec.44M bytes/sec.167.38M bits/sec.Storage protection30030015005001500Storage protectionStd.NoneNoneNoneNoneStorage protectionStd.2260221212Callen emory, bytes2XNone1MB-3MB6445 (pt.)Callen emory, bytes2XNone1MB-3MB6445 (pt.)Callen emory, bytes2X2214To 625K bytes/sec.9ComMANICATIONS10064.90pt.: 2400 bpcMax. number of lines1001664.9Stor. 19 2K bpsStor. 19 2K bpsSto	Bytes fetched per cycle	2	2	2	2
Contraction 400,200 500 150 150 150 150 152 Storage protection Storage protection Storage protection 11MB 49MB 64KB / 128KB 128K Cache memory, hytes 2K 256K 64KB / 128KB 64KB / 128KB 64KB / 128KB MUT/DUTUT CONTROL 2 2 22 22 14 To 625K bytes, sec. 2MB/sec. 2MB/sec. 2MB/sec. 2MB/sec. 100 Other pack supported 102 100 100 0pt. 25K bytes/sec. 2780/3780 Synchronous Synchronous Synchronous Std. 19.2K bps Std. 19.2K bps Std. 19.2K bps Ayurdronous 2780/3780 Std. 19.2K bps Std. 19.2K bps Std. 19.2K bps MB 3220 eminutes 2780/3780 None None 2780/3780 MB 3220 eminutes 180-500MB Cart: SMB 30MD: Reproys: None No Weinstassaported 180-500MB Cart: SMB 30MD: Reproys: No No Setter partners up to 2400 ops No offered by mfr. up to 1200 ops 150 ops Stass supported 1280 (pt. 100/200	Cycley/access time, nanoseconds 400/2000 500 150 150 52 22 Storage protection Increment size, bytes 512 k 256 k 64.KB/123KB 128 k Cache manary, bytes 512 k 256 k 64.KB/123KB 128 k Gache manary, bytes 512 k 20 k 92 k 14 FUT/OUTPUT CONTROL BWL, or // Of Annehs 32 22 14 To 625K bytes/sec. OMM.NLCATIONS 100 15 64 9 0pt. 250K bps 58t.; 19.2K bps </td <td>Memory access</td> <td>90MB/sec</td> <td>4M bytes/sec</td> <td>16</td> <td>7 38M bits/sec</td>	Memory access	90MB/sec	4M bytes/sec	16	7 38M bits/sec
Storage present and memory. None Mage Gene Gene <t< td=""><td>None None State State</td><td>Cuele (access time, menoposendo</td><td>400/200</td><td>500</td><td>150</td><td>542</td></t<>	None State	Cuele (access time, menoposendo	400/200	500	150	542
Storage protection Storage protection Storage protection None None None Internant acc, bytes 51/2 22 32 14 Case (pr) None 22 22 32 24 32 25 32 26 32 276 32 276 32	Storage protectionStor.NoneNoneNoneStorage protectionS12.k200 kmNoneNoneNoneNoneVPUT/OUTPUT CONTROL2KNoneNoneNone6485 (pc)LVPUT/OUTPUT CONTROL2KNone214To E2SK types/sec.208 (sc)L208 (sc)L208 (sc)L16Max. number of lines10016648 (sc)L9 (sc)LMax. number of lines10016648 (sc)L9 (sc)LMax. number of lines1001650 (sc)L9 (sc)LMax. number of lines1001650 (sc)L19 (sc)LMax. number of lines1001650 (sc)L19 (sc)LRet terminals envised2780/3780 (sc)LSolL(HDLCSc)L(HDLCSc)L(HDLCType of LAN supportedPolynet2780/3780 (sc)LNoneNoneBM 3220 cmulation160-500MBCart: 5M9.400MB; foppys:Fixed: 01 (fc). 330MBFixed: 10M8-30MBEMHERAL CQUIDWAIT160-500MBCart: SM9.400MB; foppys:Fixed: 01 (fc). 330MBFixed: 10M8-30MBEMHERAL CQUIDWAIT160-500MBCart: SM9.400MB; foppys:Fixed: 01 (fc). 330MBFixed: 10MB-30MBEMHERAL CQUIDWAIT160-500MBFixed: 10MB-30MBFixed: 10MB-30MBExter quality printersup to 1200 (pnNot offeed by mfr.up to 1300 (pnBeil-ter protein35 (sc)LScFOTTRAN,Baccobol (pnOffware All supported36 (sc)LScScOffware MaxAs	Cycle/access time, nanoseconds	400/200	500	150	1042
Increment size, bytes 512K 26K 964K (712KB 64K (72KB 674K (72KB 674K (72KB 774K 174K 174K 174K 174K 174K 174K 174K	Increment size, bytes 512K 226G 64K6 (r) 128K 56K 6(pt) 32K None 128K 56K (pt) 32K None 108-30K 64K (pt) 23K 50K 55K 128K 55K 128	Storage protection	Std.	None	None	None
Cache memory, bytes ZK None IMB-8MB 64KB (pt) No. of I/O channels 32 32 32 14 No. of I/O channels 32 32 32 14 Data transfer rate 1MB/sec. 20MB/sec. 20MS/sec. 20MS/sec. 32 Dom Synchronous 56,1 9,25K bytes/sec. 56,4 9 Arynchronous 56,1 9,25K bytes/sec. 56,4 9 Type of LAN supported 2780/3780 Std. 19,2K bps Std. 19,2K bps Std. 19,2K bps BM 3270 amplation Polynet Polynet Polynet CS dependent None BM 3270 amplation Yes No No No 2780/3780 Serial printers up to 2400 cps Not offered by mfr. No 100 cps 300 (pm Serial printers up to 2400 cps None Spc.spc. 1600 bpi 300 (pm Steaseto/contrigg taple drives 25 (ps. 1600 bpi 90 (ps. 812/5) Spc.cobi 300 (pm Steaseto/contrigg taple drives 25/5ps. 160	Cache memory, tytes 2K None 1MB-8MB 64KB (pr) No. of I/O Channels 32 2 32 14 No. of I/O channels 32 2/MB/sec. 2MB/sec. 2MB/sec. 2MB/sec. No. of I/O channels 00 00 16 64 9 Synchronous Std. : 19.2K bps Std. : 19.2K bps Std. : 19.2K bps Std. : 19.2K bps Synchronous Std. : 19.2K bps Std. : 19.2K bps Std. : 19.2K bps Std. : 19.2K bps MB 3270 emainels emulated 2780/3780 None None 2780/3780 MB 3270 emainels emulated 2780/3780 None None 2780/3780 Bits supported Polynet Polynet Polynet None Std. : 19.2K bps Serial printers up to 2400 cps Vore None Std. : 100/30MB Serial printers up to 2400 cps Not offered by mfr. vor 1200 cps Std. : 100/200 (ps Streaming tape drives 25/ps, 1/500 bpi Std. Std.: Std.: 10/200 (ps Std.: : 20/20 (ps Std.: : 20/20 (ps <td>Increment size, bytes</td> <td>512K</td> <td>256K</td> <td> 64KB/128KB</td> <td>128K</td>	Increment size, bytes	512K	256K	64KB/128KB	128K
NPUT/CUTFUT CONTROL 32 2 32 14 Data transfer rate 1MB/sec. 2MB/sec. 2MB/sec. 52 OMMUNICATIONS 100 16 64 9 Max. number of lines 100 16 64 9 Arynchronous Std.; 19.2K bps Std.; 19.2K bps Std.; 19.2K bps Std.; 19.2K bps Type of LAN supported 2780/3780 Polyter, Ethernet Noe Noe RE terminals enumbated 2780/3780 Noe Std.; 19.2K bps Std.; 19.2K bps Serial printers up to 2400 cps Not offered by mir. No Noe Noe Etter quality printers up to 2400 cps Not offered by mir. Not offered by mir. Not offered by mir. Not 1200 (pm 36 cps Sortial printers 0 to 1200 (pm Not offered by mir. Not offered by mir. Not 1200 (pm 30 (pm Complers 25 ips: 1600 bpi 30 ips Noe Std ips: 160MB Sp ips: 120bpi Other purpharalis supported 30 ips Std ips: 160 bpi Sp ips: 160 bpi Sortial printers up to 1200 (pm Not offered by mir. Not offered by mir. Not isole cps Complers Assembler Basic, Cob ipi Basips: (std ip) <td< td=""><td>pip UT/DUTPUT CONTROL. 32 14 Data tarafer rate 1MB/sec. 2MB/sec. 2MB/sec. 14 Data tarafer rate 1MB/sec. 2MB/sec. 2MB/sec. 14 OMMUNICATIONS 100 16 64 9 Max. number of lines 100 16 64 9 Synchronous Stid. 19 2K bps Stid. 19 2K bps Stid. 19 2K bps Stid. 19 2K bps Aynothronous Stid. 19 2K bps Stid. 10 2K bps Stid. 10 2K bps</td><td>Cache memory, bytes</td><td>2K</td><td>None</td><td>1MB-8MB</td><td>64KB (opt.)</td></td<>	pip UT/DUTPUT CONTROL. 32 14 Data tarafer rate 1MB/sec. 2MB/sec. 2MB/sec. 14 Data tarafer rate 1MB/sec. 2MB/sec. 2MB/sec. 14 OMMUNICATIONS 100 16 64 9 Max. number of lines 100 16 64 9 Synchronous Stid. 19 2K bps Stid. 19 2K bps Stid. 19 2K bps Stid. 19 2K bps Aynothronous Stid. 19 2K bps Stid. 10 2K bps Stid. 10 2K bps	Cache memory, bytes	2K	None	1MB-8MB	64KB (opt.)
22 2 32 14 Data transfer rae 1M8/sec. 2M8/sec. 2M8/sec. 76 625 kytes/sec. 76 625 kytes/sec. COMUNICATIONS Synchronous Synchronous 9 Opt. 260 kps None 9 Synchronous Sprit 192 kps Still 192 kps Still 192 kps Type of LAN supported 2780/3780/SDLC SDLC/HOLC OS dependent None 2780/3780 Sprit Fixed 1280 kps Still 192 kps Still 192 kps Still 192 kps Sprit Fixed 1280 kps Still 192 kps Still 192 kps Still 192 kps Sprit Fixed 1280 kps Still 192 kps Still Still 192 kps Sprit Fixed 1280 kps Still 192 kps Still Still </td <td>Date of the observation of t</td> <td>INPUT/OUTPUT CONTROL</td> <td></td> <td></td> <td></td> <td></td>	Date of the observation of t	INPUT/OUTPUT CONTROL				
The sector MB/sec. MB/sec. MB/sec. MB/sec. MB/sec. Max, number of lines 100 Opt.: 260k bps Std.: 19.2k	Charlen Composition Charlen Composition <thcharlen composition<="" th=""> Charlen Composition</thcharlen>	No. of I/O channels	32	2	32	14
Units transfer face Interjesc. ZMB/36C. ID 62bK bpt8/sec. ID 62bK bpt8/sec. Max. number of lines Dop.: 9 6K bps Soft. 13 2X bps Soft. 13 2X bps Soft. 13 2X bps Max. number of lines Dop.: 9 6K bps Soft. 13 2X bps Soft. 13 2X bps Soft. 13 2X bps Protocols supported Polynet Polynet Polynet Soft. 13 2X bps RE terminals emulated 2780/3780 None No BM 32 20 enulation Yes No No Brid printers Up 0 2400 cps No 6 No Soft 10 2X D0 pm Polynet Cart: SMB-80MB; floppy: Fixed: 80 .160.330MB Soft 10 printers Up 0 2400 cps No fifterd by mfr. Up 0 1200 cps 135 cps Soft 10 printers Up 0 2400 cps No c No 300 pp Soft 10 printers Up 0 2400 cps No fifterd by mfr. Up 10 200 cps 135 cps Soft Wax Gfred by mfr. Up 10 200 cps None 25 ips: 1600 bpi 300 ips Soft Wax Gfred by mfr. Up 10 2200 ips None 25 ips: 1600 bpi 30 ips Soft Wax Gfred by mfr. Up 10 2200 ips None 25 ips: 1600 bpi 30 ips Soft Wax Gfred by mfr. Up 10 2200 ips None 25 ips: 1	Units transfer rate Indysec. 100/2002. 100/2002. 100/2002. Max. number of lines Opt. 9 6k bps 100/2002. 100/2002. 100/2002. Max. number of lines Opt. 9 6k bps 100/2002. 100/2002. 100/2002. Asymphonous Std. 19 2X bps Std. 19 2X bps Std. 19 2X bps Std. 19 2X bps Ret terminals ensutated 2780/3780 Polynet 2780/3780 None RM 2270 ensulation Yes Polynet 2780/3780 None None RM 2270 ensulation Yes Polynet 2780/3780 None None RM 2270 ensulation Yes Polynet 2780/3780 None None Secial printers up to 2400 cps two 12400 tpm Fixed: 101/100/00 ps 150 cps Stree printers up to 2200 cps Not offered by mfr. up to 1200 lpm 300 lpm Stree printers up to 1200 lpm None 25 ips: 1600 bpi 300 ips: 25 ips: 1600 bpi OPT WARE Assembler Basic, Iris Basic, C PASCAL COROL, C Realtime, batch Multitasking Operating system Multitasking No No No No Other packages Word Proce, Aspications Stord Prinely Min Processing		1140 /000	2000 (000	2MP (200	To GOEK hundre (and
COMMUNCATIONS 100 16 64 9 Synchronous Asynchronous 100 16 64 9 Synchronous Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Synchronous Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Type of LAN supported 2780/3780 Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Std: 10.2K bps Std.: 100.2K bps </td <td>OMMURCATIONS 100 16 64 9 Synchronous Asynchronous 102 16 64 9 Synchronous 2780/3780 2780/3780 9 2780/3780 Type of LAN supported 2780/3780/3DLC SDLC/HQLC - 2780/3780 Type of LAN supported 2780/3780 PolyNet 2780/3780 None 2780/3780 Type of LAN supported 2780/3780 PolyNet Eterminals emulated 2780/3780 None None 2780/3780 Strial printers up to 2400 cps to 200 cps up to 200 cps Fixed: 130ME-110ME No No Serial printers up to 200 cps up to 200 cps Not offered by mr. up to 1200 pps 300 pm Seriel printers up to 200 cps 150 cps 300 pm Store store 300 pm Seriel printers up to 200 cps Nore 90 ps; 160MB 90 ps; 160M 90 ps; 160M Other packpace 30 ps; 100 pp Nore 90 ps; 160M 90 ps; 160M 90 ps; 160M OffWARE Assembler Assembler Basic, FOTTRAN, Basic, FOTTRAN, Basic, FOTTRAN, Restime, batch Nod Operating system Goneral secounting General secounting Genera</td> <td>Data transfer rate</td> <td>INB/Sec.</td> <td>ZIVIB/SEC.</td> <td>ZIVIB/SEC.</td> <td>IN DADY DATES Sec.</td>	OMMURCATIONS 100 16 64 9 Synchronous Asynchronous 102 16 64 9 Synchronous 2780/3780 2780/3780 9 2780/3780 Type of LAN supported 2780/3780/3DLC SDLC/HQLC - 2780/3780 Type of LAN supported 2780/3780 PolyNet 2780/3780 None 2780/3780 Type of LAN supported 2780/3780 PolyNet Eterminals emulated 2780/3780 None None 2780/3780 Strial printers up to 2400 cps to 200 cps up to 200 cps Fixed: 130ME-110ME No No Serial printers up to 200 cps up to 200 cps Not offered by mr. up to 1200 pps 300 pm Seriel printers up to 200 cps 150 cps 300 pm Store store 300 pm Seriel printers up to 200 cps Nore 90 ps; 160MB 90 ps; 160M 90 ps; 160M Other packpace 30 ps; 100 pp Nore 90 ps; 160M 90 ps; 160M 90 ps; 160M OffWARE Assembler Assembler Basic, FOTTRAN, Basic, FOTTRAN, Basic, FOTTRAN, Restime, batch Nod Operating system Goneral secounting General secounting Genera	Data transfer rate	INB/Sec.	ZIVIB/SEC.	ZIVIB/SEC.	IN DADY DATES Sec.
Max. number of lines 100 16 64 9 Synchronous Opt.: 26 Kb ps Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Protecols supported 2780/3780 Std.: 19.2K bps Std.: 19.2K bps Std.: 19.2K bps Type of LAN supported Polynet 2780/3780 OS dependent None RJE terminals emulated 2780/3780 No No Std.: 19.2K bps Sriel printer up to 2400 aps No No Std.: 19.2K bps Sriel printer up to 2400 aps No Fixed: 100.830MB No Line printer up to 2400 aps Not offered by mfr. No No Line printer up to 2400 aps No No Std.: 19.2(10 aps) Streaming tape drives 25 ips: 1600 bpi 90 ips.: 160/20 ips No No Streaming tape drives 25 ips: 1600 bpi 90 ips.: 160MB 90 ips: 160MB 90 ips: 160MB Opt:: zd=/22 ips Assembler Assembler Assembler Basic, ris Basic, C PASAL, COBU, C Completer Streaming tape. ring Basic Streaming rung, final assembler Basics, ris Basic, C PASAL, COBU, C Database management system Streaming rung, final assemating rung, final assembler Ascounting, finanali	Max. number of lines 100 Opt. 256 kbps 64 9 Asynchronous Opt. 256 kbps Std. 19.2 kbps Std. 19.2 kbps Std. 19.2 kbps Asynchronous Std. 19.2 kbps Std. 19.2 kbps Std. 19.2 kbps Type of LAN supported Polynet DPL. 256 kbps Std. 19.2 kbps Type of LAN supported Polynet PolyNet, Ethernet None OS dependent None Bit Earnings emulated 2780/3780 No No No No Strid S270 analysis Type of LAN supported PolyNet, Ethernet No No No Bit S270 analysis Type of LAN supported PolyNet, Ethernet No No No Strid Jinters up to 2400 cps Fixed: 10MB-50MB: floppy: Fixed: 30M1 on the Site op the 100 pm No Strid printers up to 200 cps Up to 200 cps No No No Streaming tape drives 25 ips: 1600 bpi 90 ips: 1600 bpi 90 ips: 1600 bpi 90 ips: 1600 bpi Streaming tape drives 25 ips: 1600 bpi 90 ips: 1600 bpi 90 ips: 1600 bpi 90 ips: 1600 bpi Optrust system Operation system Mattrasking No No No Optrust system Opfications generator, BLS Cobo	COMMUNICATIONS	1		1	1
Synchronous Asynchronous Asynchronous Protocols supportedOpt.: 26K bps Std.: 19.2K bp	Synchronous Asynchronous Asynchronous Protocols supportedOpt.: 2400 bps Std.: 19.2K b	Max. number of lines	100	16	64	9
Approtocols supportedSit: 19.2K bps 2780/3780/SDLCSit: 19.2K bps 2780/3780/SDLCSit: 19.2K bps 2780/3780Sit: 19.2K bps 2780/3780Sit: 19.2K bps 2780/3780Protocols supported2780/3780/SDLCSDLC/HDLCSDLC/HDLCRJE terminals emulated Disks supported2780/3780/SDLCPolyNet, Ethernet NoSd dependent NoNoNoSerial printers Letter quality printers Letter quality printers Determination and priceup to 2400 cps up to 2200 cpsFixed: 18MB-110MB No effered by mfr. up to 1200 cpsFixed: 18MB-110MB No effered by mfr. up to 1200 cpsFixed: 18MB-110MB No effered by mfr. up to 1200 cpsFixed: 18MB-30MB MOSFNL-1322MBFixed: 18MB-30MB Host offered by mfr. up to 1200 cpsFixed: 18MB-30MB MOS cpsFixed: 18MB-30MB MOSFNL-1322MBFixed: 18MB-30MB MOSFNL-1322MBSort Trans and the supported75 ips 10 ips100 cps 10 ips100 cps 10 ips100 cps 10 ips100 cps 10 ips100 cps 10 ipsOperating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system CompilersMatitasking No 10 Hateksking Translator, Accounting operating tape. high speed printer port, TP speed first delivery Det of first delivery Date of f	Approtocols Protocols supportedStd.: 19.2 K bps 2780/3780/SDLCStd.: 19.2 K bps SDLC/HDLCStd.: 19.2 K bps Protocols SDLC/HDLCStd.: 19.2 K bps Protocols 2780/3780Std.: 19.2 K bps ProtocolsStd.: 10.2 C D ps ProtocolsStd.: 10.2 C D Ps ProtocolsStd.: 10.2 C D D Ps 	Synchronous	Opt.: 9.6K bps	Opt., 250K bps	None	Opt.; 2,400 bps
Arymonetics Disk, 19240 Ops Disk, 19240 Ops Disk, 19240 Ops Disk, 19240 Ops Type of LAN supported Polymet Disk supported <	Anymentation Disk, 152A 0p3 Disk, 152A 0p3<	Asynchronous	Std : 19 2K bre	Std 19 2K bos	Std : 19 2K bpe	Std : 19 200 bps
Troucos supportes 2/80/3780/3202 520/07102 22/80/3780 22/80/3780 Type of LAN supported 2780/3780 None 0S dependent None 2780/3780 BM 3270 enulation Yes PolyNet, Ethernet None 0S dependent None 2780/3780 BM 3270 enulation Yes PolyNet, Ethernet None OS dependent None 2780/3780 BM 3270 enulation Yes PolyNet, Ethernet None OS dependent None 2780/3780 Box Supported up to 1200 ops up to 1200 ops Up to 1200 ops 150 ops 150 ops Streaming tape drives 25/95: 1600 bpi 90 ips; 8120bpi None 90 ips; 160MB Diskettes: 1.2MB Other perpherals supported 90 ips; 18120bpi None 90 ips; 160MB Diskettes: 1.2MB Operating system Multitasking Not trasking No No Other peckages Word Proc. Applications Accounting, office accounting, office accounting, office Translater, RLS 2004 Tind party No No No No Other packages Word Proc. Applications Accounting, office accounting, office accounting, office Trinalstarc, RLS 2004 Tind party N	rriutous supported 2/80/3780/30L SUC/INCL	Protocolo overcente 1	2700/2700/0010		0.0., 10.2K 0ps	12700/2700
Type of LAN supported RJE terminals emulated BM 3270 emulation PERIPHERAL EQUIPMENT Disks supportedPolymet 2780/3780 YesPolymet 2780/3780 NoPolymet 2780/3780 NoNone NoNone NoSerial printers Letter quality printers Letter quality printers up to 2000 pps up to 1200 pmito-500MB up to 2200 pps up to 2000 pps to 16fered by mfr. up to 1200 pm 0 pips 1600 bpi 30 ips: 1600 bpi 30	Type of LAN supported RLE terminals emulated RLE terminals emulation RLE terminals emulation REMPERAL EQUIPMENT Disks supportedPolynet 2780/3780 YesPolyNet, Ethernet NoneOS dependent NoNone 2780/3780 NoSerial printers Latter quality printers up to 200 cps up to 200 cps top to 1200 cps top to	riotocols supported	2/80/3/80/SDLC		I—	2/00/3/00
Type of LAN supported REL terminals enviated IBM 3270 emulationPolynet 2780/3780Polynet PolyNet, Ethernet NoOneNone 2780/3780None 2780/3780BM 3270 emulation BM 3270 emulationYesNoNoNoNoNoDisks supported160-500MBCarr: 5MB-80MB; floppys: Fixed: 18MB-110MBNoNoNoNoSerial printers Lare printers up to 1200 cpsup to 2400 cpsNo offfered by mfr. up to 1200 cpsup to 300 cps35 cpsLine printers Besic tortel tape drives Greaming tape drives Other parphrais supported75 pbsNoNoNoStreaming tape drives Greaming tape drives Compilers90 ps; 8120bpiNoNoNoNoOperating system Operating system Drinspin ducided in software Basic, rise basic ortificationMultitasking Multitasking NoMultitasking NoNoNoNoOther packagesWord Proc., Applications operating system Other packagesWord Proc., Applications generator, ELS Cotol Tamsiator, Accounting, differed with prinspin ducids, in CotopCPU, 256KB memory, 10M disk, streaming tartified accountingCPU, 256KB memory, 10M disk, streaming tartified accountingCPU, 256KB memory, 10M disk, streaming tartified to date compiler—s35.000CPU, 256KB memory, 10M disk, streaming tartified to dateCPU, 256KB memory, 10M disk, streaming tartified to dateCPU, 256KB memory, 10M disk, streaming tartified to dateConsult dealers No tartified to date to up to 18 cers added or deleted withou software changes— provid	Type of LAN supported BLE terminate multated BLE terminate multated BLM 3270 emultationPolynet 2780/3780 YesPolynet Polynet NoOS CS Polynet NoNone ANONone ANOBLM 3270 emultation BLM 3270 emultation160-500MBCart: SMB-B0MB; floppys; Fixed: 80,160,330MB MoSFHD 1:320MBFixed: 80,160,330MB MOSFHD 1:320MBFixed: 10MB-30MB Fixed: 80,160,330MB multip printers Up to 1200 cps Up to 1200 cps Up to 1200 pm 20 ips; 8120bpiFixed: 80,160,330MB Fixed: 80,160,330MB MOSFHD 1:320MBFixed: 10MB-30MB Fixed: 80,160,330MB multip to 1200 cps Up to 1200 pm 300 ipsStreaming tape drives Casette/cartification Chert pachase Principal industry applicationDisk 5120bpi Policia Streaming Principal industry applicationDisk 5120bpi Policia Streaming Principal industry applicationMacro Basic, Chol, CP Basic, Chol, CPBasic, Chol, B-Basic, Basic, Chol, B-Basic, Basic, Chol, B-Basic, Basic, Chol, B-Basic, Basic, Chol, B-Basic, Basic, Interpretive)Intel Basic (Interpretive)Operating system Operating system ComplersMultitasking Multitasking Business systems agreentry system Streaming tape, high researbers, Stop 20, crMultitasking NoMultitasking NoRealtime, batch Modical, insurance, Modical, insurance, Modical, insurance, Modical, insurance, Modical, insurance, Modical, insurance, Modical, insurance, Modical, insurance, Streaming tape, high researbers, Stop 20, crRealtime, batch Modical, insurance, Modical, insurance, Modical, insurance, Modical, insurance, Streaming tape, high researbers, Stop 20, crMultitasking No<					1
RJE terminals emulated BM 3270 emulation PERIPHEAL EQUIPMENT 2780/3780 No None No 2780/3780 Disks supported 160-500MB Cart: SMB-80MB; floppy: Fixed: 18MB-110MB Fixed: 10MB-300MB Fixed: 10MB-300MB Strail printers up to 2400 cps Not offered by mfr. up to 1200 lpm Fixed: 10MB-300MB Letter quality printers up to 2400 cps Not offered by mfr. up to 1200 lpm So cps Streaming tape drives 75 ips None None So cps None Streaming tape drives 25ips: 1600 bpi 90 ips: 12120bpi None Sort None SoFTWARE Assembler Basic, ris Basic, C BASIC, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, B-Cobol Intel Operating system Multitasking Multitasking Not No No Other packages Word Proc. Applications operating system configuration and price Word Proc. Applications spate processore, streaming tape, high speed printer port, TTY port, 8 RS-322 port, BS-320 con- compting insteamore of basic configuration and price Word Proc. Applications operating system & one compting system & one compting tape, high speed printer port, TTY port, 8 RS-322 port, thigh speed printer port, TTY port, 8 RS-325 port, streaming tape, high speed printer port, TTY port, 8 RS-325 port, streaming tape, high speed printer port, TTY port, 8 RS-325 port, streaming tape, high speed printer port, TTY port, 8 RS-322 port, streaming tape, hi	RJE terminals emulated 2780/3780 None No No 2780/3780 No RIPHERAL EQUIPMENT 160-500MB Cart: 5MB-80MB; floppys; fixed: 18MB-110MB Fixed: 80,160,330MB Fixed: 10MB-300MB Serial printers up to 2400 cps No of offered by mfr. up to 1200 lpm So cps Lieter quality printers up to 2400 cps No of offered by mfr. up to 1200 lpm 300 lpm Reel-to-real tape drives 75 ips No No Opr: 100/200 lps 300 lpm Streaming tape drives 25 ips; 1600 bpi 90 ips; 150MB Dips None 0pr: 10/200 lpm 300 lpm Oper printers 25 ips; 1600 bpi 90 ips; 150MB Dips 50 cps 180 cps 180 cps Complexes 25 ips; 1600 bpi 90 ips; 150MB Dips 50 cps 180 cps 180 cps Operating system Multitasking Nore Basic, Cobol, B-Basic, Basic (interpretive) No Operating system Included in software Accounting, office automation, CAD/CAM, word processing No CPU, 256KB memory, 10M Relines system configuration and price 756K8, HOST processor, two charges—consure the disk, streaming caching, state state, state state state, state sta	Type of LAN supported	Polynet	PolyNet, Ethernet	OS dependent	None
IBM 3220 emulation Yes No No No Disks supported 160-500MB Cart: SM8-80MB; floppy:: Fixed: 10MB-30MB Fixed: 10MB-30MB Serial printers up to 2400 cps fixed: 18MB-110MB MOSFHD: 1-122MB MOSFHD: 1-122MB Fixed: 10MB-30MB Liter quality printers up to 200 cps up to 1200 lpm Not offered by mfr. up to 1200 cps fixed: 10MB-30MB Streaming tape drives Z5 ips: 160 bpi 90 ips 90 ips 560 bpi Software Z5 ips: 160 bpi 90 ips 670 bpi 300 lpm Other perpherals supported 25 ips: 160 bpi 90 ips 670 bpi 90 ips 560 bpi SoftWARE Assembler Basic, Ciris Basic, C PASLIC, COROL, C Port: 100/200 ips 90 ips 160 dbpi Operating system Opciand system Include in software Multitasking Mot supplied No Other packages Word Proc., Applications General Accounting, office accounting, infancial Other packages Word Proc., Applications Stres Stabe disk, streaming CPU, 256KB memory, 10M No reminals w/hgh res. streaming tape, high ses. Stread disk, streaming State first delivery June 1983	BM 3270 emulation Yes No No No Disks supported 160-500MB Cart: SM8-B0MB; floppys: Fixed: 18MB-110MB No No Sarial printers up to 2400 cps to to 2400 cps Not offered by mfr. up to 1200 cps To 1200 cps Line printers up to 1200 cps Not offered by mfr. up to 1200 cps No to offered by mfr. up to 1200 cps So is 5 cps Steaming tape drives Zips; 1600 bpi 90 ips; 160MB No Opr: 100/200 ips 300 ipm Steaming tape drives Zips; 1600 bpi 90 ips; 160MB None 90 ips; 160MB Diskettes: 1.2MB OFTVARE Assembler Basic, Cirol Zips Basic, Cobol, B-Basic, Basic (interpretive) Diskettes: 1.2MB Operating system Multitasking No Multitasking No No Other packages Word Proc., Applications Accounting, office automation, CAD/CAM, word processing Spreadsheer, straing, disk, streaming, no disk, streaming, carring system configuration and price Streaming tapp, high is spinled Spreadsheer, straing, carring system so complem—335, 500 CPU, 256KB memory, 10M Rolling a value applied 100 Trind party, straing, strain file, software, base in software,	BJE terminals emulated	2780/3780	None	No	2780/3780
ERIPHERAL EQUIPMENT Disk supported1cs1cs1cs1csDisk supported160-500MB160-500MBFixed: 10MB-10MB (Stopp); Fixed:	EmpleteAL_EQUIPMENT 163 163 163 164 Disks supported 160-500MB Fixed: 18MB-810MB; 10pmBys; Fixed: 10MB-30MB Fixed: 10MB-30MB Strill printers up to 2400 cps up to 2400 ps Not offered by mfr. up to 1200 pm 300 pm Rel-to-real tape drives 75 ips 1500 bpi 90 ips: (5100 bpi 90 i	IBM 3270 emulation	Ves	No	No	No
PartmenAL EUDIMENT160-500MBCart: 5MB-80MB; floppys; Fixed: 13MA-110MBFixed: 10MB-30MB up to 2400 cpsFixed: 10MB-30MB up to 2400 cpsLetter quality printers Line printers Reet-to-rel tape drives Carsette/cartridge tape drives Comber perpherals supported25 (ps; 1600 bpi 90 (ps; 1600 bp	Internet EQUIPMENT180-500MBCart: 5MB-80MB; floppy; Fixed: 18MB-110MBFixed: 80, 160, 330MB MoreFixed: 10MB-30MBSerial printers Lieter quality printers up to 1200 ipmup to 2400 cps up to 1200 ipmNor offered by mfr. Nor offered by mfr.Up to 1200 cps up to 1200 ipmSo ops 35 cpsSo ops 35 cpsStreaming tape drives Carsette/carridge tape drives Cassette/carridge tape drives Cassette/carridge tape drives75 ips 90 ips: 8120bpiNoreOpt: 1020 ipm 90 ips: 1600 bpi 90 ips: 1600 bpiSo ops 35 cpsSo ops 35 cpsOPT-WARE Assembler ComplersAssembler Basic, CAssembler Basic, C Cohol, B-Basic, BASIC, FORTRAN, PASCAL, COBOL, CBasic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Insurance, accounting, financial GeneralIntel Basic (interpretive)Other packagesWord Proc., Applications agenerator, BLS Cobol Translatch, AccountingMultitasking NoreNo No Individed in software Business systemMot. maintenance of basic configuration Date of first delivery Number installed to dateTo RS 32, ports. To RS 32, ports. So op inter port, SS, 950CPU, 256KB memory, 10M disk, streaming tape, high speed of winter port, TITY port, 8 RS 32, ports. operating system do deleted without software banges— provides expansion from one to 17 CPUsCPU, 256KB memory, 10M disk, 160MBMo. maintenance of basic configuration Date of first delivery Number installed to date.Not supplied to adde of deletwithout software changes— provides expansion from one to 17 CPUsCPU, 256KB memory, 10M disk, streaming tape, high s		103			
Dakes supported 160-500MB Cart: 5MB-500MB; fiopPys; Fixed: 1200 cps Fixed: 80, 160, 330MB WOSFID: 1-32MB Fixed: 80, 160, 330MB WOSFID: 1-32MB Fixed: 80, 160, 330MB Serial printers up to 2400 cps Not offered by mfr. up to 1200 cps 150 cps Line printers up to 1200 lpm Not offered by mfr. up to 1200 lpm 300 lpm Streaming tape drives 25ips; 1600 bpi 90 ips 90 ips 90 ips is 100MB SOFTWARE Assembler Basic, Iris Basic, C Macro Basic, Cobol, B-Basic, Intel Assembler Compilers Multitasking Multitasking Not applied No No Operating system Prictical infirmware Multitasking Multitasking No No No Other packages Word Proc., Applications general accounting Spreadsheet, areaming, concerning, financial Spreadsheet, sereming, concerning, financial Spreadsheet, sereming, concerning, financial PRICING & AVAILABILITY Basic system configuration and price S30,900 No No CPU, 256KB memory, 10MI Mo, maintenance of basic configuration and price S30,900 No Sered printer Streaming tape, 16TT, concerning Spreadsheet, sereming concerning, financial Dow meinterstis delivery June 1983 10 Ju	Disks supported 160-500/MB Cart: 5MR-500MB; 160/97; Fixed: 80, 160, 330/MB Fixed: 80, 160, 330/MB Serial printers up to 2400 cps to 200 cps Not offered by mrf. up to 1200 cps 150 cps Line printers up to 1200 lpm Not offered by mrf. up to 1200 lpm 300 lpm Streaming tape drives 25ips; 1600 bpi 90 ips Opt; 25-125 lps None Compilers 25ips; 1600 bpi 90 ips (sG, COTRAN, PASCAL, C080L, C Basic, Cobol, B-Basic, Intel Assembler Basic, Iris Basic, C BASIC, FOTTRAN, PASCAL, C080L, C Basic, Cobol Basic, Interpretive) Operating system Multitasking Not supplied No No No Other packages Word Proc., Applications General Accounting, office General General CPU, 256KB memory, 10M Spreadsheet, word processing RCIMS & AVAILABILITY Translator, Accounting, office, adfice, 172 uspiled Translator, Accounting, office, adfice, 160MB CPU, 256KB memory, 10M 150 ops printer -514.000 Atmariated to date 10 Translator, Accounting, office, adfice, 174.000 Consurt dealars, 140.000 -514.000 -514.	PERIPHERAL EQUIPIVIENT	100 50010		F: 1 00 100 00010	
Serial printers Letter quality printers Line printers Line printers up to 200 cpsprice 2400 cps up to 200 cpsNot offered by mfr. up to 1200 lpm Not offered by mfr. up to 1200 lpm NoneUp to 300 cps 	Serial printers Letter quality printers Line printers there printers Pareling printers (there printers) Rel-to-rel tape drives Streaming tape drives Cassette/cartridge tape drives 25ips: 1600 bpi 90 ips: 8120bpiNot offered by mrfr. Not offered by mrfr. NoneUp to 1200 lpm Up to 1200 lpm Up to 1200 lpm None150 cps 35 cpsRel-to-rel tape drives Cassette/cartridge tape drives Compiler25ips: 1600 bpi 90 ips: 8120bpiNone00 ips 90 ips 90 ipsNone25ips: 1600 bpi 90 ips 90 ips300 lpm Up to 1200 lpm 90 ipsNoneOFTWARE Assembler CompilersAssembler Basic, Its Basic, CAssembler Basic, CBasic, Cobol, B-Basic, Basic, Cobol, Compiler, Compi	Disks supported	160-500MB	Cart: 5MB-80MB; floppys;	Fixed: 80 ,160, 330MB	Fixed: TOMB-30MB
Serial printersup to 200 cpsNot offered by mfr. up to 200 cpsup to 1200 cps up to 1200 lpm150 cps 35 cpsLine printersup to 1200 lpmNot offered by mfr. up to 1200 lpmup to 1200 lpm300 lpmRel-to-real tape drives75 ipsNoneOpt.: 150/250 lpm300 lpmStreaming tape drives90 ips; 8120bpi90 ips90 ips0pt.: 150/250 lpm300 lpmOther perpherals supported90 ips; 8120bpiNone90 ips; 160MB90 ips; 160MB90 ips; 160MBSOFTWARE Assembler ComplersAssembler Basic, Iris Basic, CMacro BASIC, FORTRAN, PASCAL, COBOL, CBasic, Cobol, B-Basic, B-CobolIntel Basic, Cobol, B-Basic, B-CobolIntel Basic, linterpretive)Operating system Operating system Other packagesMultitasking Multitasking Multitasking ComplersMultitasking ComplersMultitasking Multitasking ComplersRealtime, batch Medical, insurance, accounting, financial General accountingMultitasking General accounting, office automation, CAD/CAM, word processingSpreadsheet, word processingOther packagesWord Proc., Applications generator, BLIS Cobol Translator, AccountingCPU, 256KB memory, tow user processors, 34 MB Winchester, streaming tape, high speed printer port, 8 R5-232 ports, ooperating system & 0 on compler—S35.950CPU, 216M memory, tow user processors, additional 8 users software charges— provides expansion from one to 17 CPUsContact vendor Octaber 1983Consult dealers November 1982Mo. maintenance of basic configuration 	Serial printers up to 2400 cps Not offered by mfr. up to 1200 cps 150 cps Liter printers up to 1200 lpm Not offered by mfr. up to 1200 lpm 300 lpm Streaming tape drives 25ips: 1600 bpi 90 lps 00 lps: 00 lps: 100/200 lps 25 ips: 1600 bpi Cassette/carridge tape drives 26 ips: 8120bpi None 00 lps: 150 cps 25 ips: 1600 bpi CorrWARE Assembler Basic, Iris Basic, C BASIC, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, Intel Coperating system Multitasking Multitasking Not offered by mfr. Basic, Iris Basic, A Basic, Iris Basic, C PASCAL, COBOL, C Basic, Cobol, B-Basic, Intel Database management system Partially Not supplied Not supplied No No Other packages Word Proc., Applications generator, BLIS Cobol Accounting, office automator, CAD/CAM, word processing CPU, 256KB memory, 10M General accounting System configuration and price 756KB, HOST processor, 334MB Winchester, 100, rdt, res, streaming tape, high spece printer port, 17 PS2, 535.000 CPU, 256KB memory, 10M disk, streaming carridge tape, 1 CHT, 150 cps printer Date of first delivery 10 re 183 Jane 19		1	Fixed:18MB-110MB	MOSFHD: 1-32MB	1
Letter quality printers Line printersup to 200 cps up to 1200 lpmNot offered by mfr. Noneup to 300 cps up to 1200 lpm35 cps 300 lpmReet-or-red tape drives Cassente/cartridge tape drives Cassente/cartridge tape drives Compilers00 ips; 1600 bpi 90 ips; 1200 lpm90 ips; 1200 lpm300 lpmSDFTWARE Assembler CompilersAssembler Basic, Iris Basic, C Basic, Iris Basic, CMacro BASIC, FORTRAN, BASIC, FORTRAN, BASIC, FORTRAN, BASIC, FORTRAN, CompilersBasic, Cobol, B-Basic, B-CobolIntel Basic (interpretive)Operating system Database management system Principal industry applicationMultitasking Moint SuppliedReatime, batch No MoMultitasking Mo MoOther packages Serie System Principal industry applicationWord Proc., Applications agenerator, BLIS Cobol Translator, AccountingAccounting, office agenerator, BLIS Cobol Translator, AccountingAccounting, office agenerator, BLIS Cobol Translator, AccountingCPU, 256KB memory, 100M carridge tape, 20M carridge tape, 20M c	Letter quality printers up to 200 cps up to 200 pm Nore 01200 lpm Not offered by mfr. up to 300 cps 33 cps Streaming tape drives 25 jis; 1600 bpi 90 jis; 160	Serial printers	up to 2400 cps	Not offered by mfr.	up to 1200 cps	150 cps
Linke printersLip to 1200 [pm] restreaming tape drivesLip to 1200 [pm] 75 [ps]NoneNone300 [pm] up to 1200 [pm] up to 1200 [pm]300 [pm] NoneReel-to-reel tape drives Cassette/cartridge tape drives 	Line printers The printers field-to-real tape drives Streaming tape drives Streaming tape drives Streaming tape drives Streaming tape drives Streaming tape drives Softer parther is supported OFTWARE Assembler Complers Basic, lins Basic, C Disk Basic, lins Basic, C Derating system Operating system Other parther by streaming tape, high speed printer port, TTV port, S RS-222 ports, operating system configuration and price More Business configuration and price More Basic system configuration and price More Basic system configuration and price More Basic system configuration and price More Basic system More Basic system configuration and price More Basic system configuration and price bits of the price system system optier - \$55MB disk, terminals whigh res. generator, BLIS Cobol More Basic system configuration and price bits of the prices system optier system optier system optier system optier for the prices configuration and price bits of the prices configuration and price bits optier port, TTV port, 8 RS-232 ports, operating system & one compiler - \$35,950 Not supplied Not supplied	Letter quality printers	up to 200 cps	Not offered by mfr	up to 300 cps	35 cns
Line printersDit to izon printNot original to provide dynn.Soft printRelet-to-relit tape drives25 ips1800 bpi90 ipsDpt. 125-125 ipsDpt. 100/200 ipsStreaming tape drives25 ips1800 bpi90 ips90 ips100 ips100 ipsOther perpherals supported90 ips1830 c, Cobol, B-Basic,Diskettes: 1.2MB90 ips101 itsSOFTWAREAssemblerAssemblerBasic, Iris Basic, CBASIC, FORTRAN,Basic, Cobol, B-Basic,IntelCompilersAssemblerBasic, Iris Basic, CBASIC, FORTRAN,PASCAL, COBOL, CMultitaskingNoOperating systemMultitaskingNot suppliedNoNoIntelBasic (interpretive)Principal industry applicationMultitaskingNo appliedNoNoIntelOther packagesWord Proc., Applicationsgenerator, BLIS CobolAccounting, office automation, CAD/CAM, word processingCPU, 256KB memory,CPU, 256KB memory,Mo. maintenance of basic configurationJone 1983IoUser processor, software charles expansion from one to 17 CPUsConsult dealers nowen workedConsult dealers No suppliedNumber instaled to dateIoUser processor may bea addid or deleted without software charges— provides expansion from one to 17 CPUsSystem unit will support an additional B users after which systems of up to 16 users can be networkidContact vendor Contact vendorConsult dealers November 1982Mom instaled to date10User processor may	Line printers Up to 1200 (pin) Note offer by init.	Line minters	up to 200 opc	Not offered by mfr	up to 1200 lpm	200 lpm
Meet-or-real tape drives 75 ps None Opt. 25-125 ps None Streaming tape drives 30 ips: 8120bpi 90 ips Opt. 100/200 ips 25 ips: 1600 bpi 90 ips (std.) SOFTWARE Assembler Assembler Basic, ris Basic, C BASIC, FORTRAN, PASCAL, COBOL, C Basic, Cobol Basic (interpretive) Operating system Multitasking Multitasking Not supplied No Multitasking No Mo Itel Basic (interpretive) Mo Itel Basic (interpretive) Multitasking No Multitasking No Multitasking No Mo Itel Basic (interpretive) No Multitasking No Mo Itel Basic (interpretive) No Specification No Multitasking No Specification Specifi	Heel-to-rel tape drives 25 ips: 1600 bpi 90 ips None Upt: 25-120 ips None Cassette/carridge tape drives 25 ips: 1600 bpi 90 ips 90 ips: 160MB 90 ips: 160MB 90 ips (std.) OFTWARE Assembler Basic, Iris Basic, C BASIC, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, Intel Operating system Multitasking Multitasking Multitasking Multitasking Operating system Parially None No supplied No supplied Third party Parially No supplied No supplied No supplied Third party General Cocounting, financial General accounting General accounting Other packages Word Proc., Applications generator, BLIS Cobol Translator, Accounting CPU, 2MB memory, 10M RICING & AVAILABILITY 756K8, HOST processors, 34MB Winchester, streaming tape, high speed printer port, TTY port, 8 75.232 ports, operating system & one complier—335,950 CPU, 2MB memory, 256,000 CPU, 256KB memory, 10M Mo. maintenance of basic configuration base drived elevery Nore supplied Not supplied Contact vendor Consult dealers Number installed to date Duare 1983 Janear	Line printers		Not onered by mir.		
Streaming tape drives Cassette/carridge tape drives Other perpherals supported25 lips; 1600 bpi 90 ips. 8120bpi90 ips 90 ips.Opt.: 100/200 ips 90 ips.25 lips; 1600 bpi 90 ips.Objerating system CompilersAssembler Basic, Iris Basic, CAssembler Basic, Iris Basic, CMacro BASCAL, COBOL, CBasic, Cobol, B-Basic, B-CobolBasic, Irier Basic, Irier Basic, Irier Basic, Cobol, COperating system Operating system Thricipal industry application Basic system configuration and priceMultitasking Modified in software Business systemsMultitasking Third party Third partyNo No No No Superating systemMultitasking No No IdolOther packagesWord Proc., Applications generator, BLIS Cobol Tamalator, Accounting, Tamslator, Accounting, Tamslator, Accounting, Streadsheer, streaming tape, ligh speed printer port, TTV port, R 82-32 ports, operating system & one compiler—35,950CPU, 256KB memory, IdolCPU, 256KB memory, Idol General accounting cartridge tape, 2MB cartridge ta	Streaming tape drives Other perpherals supported 25 ips: 1600 bpi 90 ips: 90 ips 90 ips Opt: 100/200 ips 90 ips; 150MB 25 ips: 1600 bpi 90 ips (std.) Diskettes: 1.2MB OFTWARE Assembler Compilers Assembler Basic, Iris Basic, C Macro Basic, COBOL, C Basic, Cobol, B-Basic, B-Cobol Basic, Intel Basic, Intel Basic, Intel Basic, Intel Basic, Interpretive) Intel Basic, Interpretive) Operating system Oncertaing system Oricipal induced in software Basics system software Drincipal induced in software Basics system configuration and price Multitasking Word Proc., Applications generator, BLIS Cobol Translator, Accounting, Streaming tape, high speed printer port, TTP port, 8 R5-232 ports, operating system & one compiler – \$35,950 Multitasking Multitasking No Multitasking No Mo. maintenance of basic configuration Bate of first delivery Number installed to date OMMENTS Toris partition streaming tape, high speed printer port, TTP port, 8 R5-232 ports, operating system & one configuration installed to date Software built in networking — \$36,000 Contact vendor Contact vendor Contact vendor Consult dealers Norespiler — \$32,600 No No supplied software built in networking — \$36,000 No supplied Contact vendor Consult dealers Norespiler — \$32,800 Mo. maintenance of basic configuration one to 17 CPUs No supplied to 15 users can be networked No supplied contact vendor Consult dealers November 1982	Reel-to-reel tape drives	75 ips	None	Opt.; 25-125 lps	INOne
Cassentle/carridge tape drives Other perpherals supported90 ips; 8120bpiNone90 ips; 160MB90 ips; 160MB90 ips; 61.3 Diskettes: 1.2MBSOFTWARE Assembler CompilersAssembler Basic, Iris Basic, CAssembler Basic, Iris Basic, CMacro BASIL, COBOL, CBasic, Cobol, B-Basic, B-CobolBasic, Cobol, B-Basic, B-CobolIntel Basic, Interpretive)Operating system Operating system Database management system Principal industry applicationMultitasking Not suppliedMultitasking Not suppliedRealtime, batch No Opt. Medical, insurance, accounting, financial General accounting accounting, financial General accounting, financial General accounting accounting, financial General accounting accounting, financial General accounting Cother 1983 100Out	Cassette/carridge tape drives 90 ips; 8120bpi None 90 ips; 160MB 90 ips (std.) Other perpherals supported Assembler Assembler Basic, fris Basic, C Basic, Cobol, B-Basic, B-Cobol Diskettes: 1.2MB Operating system Multitasking Multitasking Realtime, batch Multitasking No Operating system Multitasking Not supplied No Basic, Cobol, B-Basic, Multitasking Other packages Word Proc., Applications generator, BLIS Cobol Mord Proc., Applications generator, BLIS Cobol Accounting, office automation, CAD/CAM, word processing Spreadsheet, word processing RICING & AVAILABILITY Translator, Accounting CPU, 2MB memory, 8 CPU, 256KB memory, 160MB disk, 160MB disk, 160MB disk, 160MB disk, 160MB cach disk, 17 user + parallel port—\$28,300 Spreadsheet, -\$14,000 Mo. maintenance of basic configuration at price 30 10 Not supplied Contact vendor Contact vendor Not supplied Not supplied Not supplied Not supplied Not supplied Spreadsheet, word processing Spreadsheet, word processing Ricing a system 8 one on priser - \$35,950 Software, built in net 983 January 1984 Cotober 1983 November 1982 November 1982	Streaming tape drives	25ips; 1600 bpi	90 ips	Opt.: 100/200 ips	25 ips; 1600 bpi
Other perpherals supported Diskettes: 1.2MB SOFTWARE Assembler Compilers Assembler Basic, Ins Basic, C Assembler Basic, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, B-Cobol Intel Basic (interpretive) Operating system Operating system Principal industry application Multitasking Included in software Business systems Multitasking Not supplied Third party General Multitasking Not supplied Third party General Realtime, batch No Opt. Multitasking No Opt. Other packages Word Proc., Application generator, EUS Cobol Translator, Accounting, streaming tarce, ASS, Stobol Translator, Accounting, office automation, CAD/CAM, word processors, 34MB Winchester, streaming tarce, S30, 950 CPU, 2MB memory, 8 users, 55MB disk, terminals w/high res. operating system & one compiler—\$35,950 CPU, 256KB memory, 160MB disk, 160MB carridge tape, 2MB carridge tape, 2MB carridge tape, 1 CRT, isoper sprinter -\$14,000 Mo. maintenance of basic configuration 20MMENTS June 1883 10 User processor may be an additional 8 users after which systems of up to 16 users can be networked Contact vendor October 1883 120 Consult dealers November 1982	Other perpherats supported Diskettes: 1.2MB OFTWARE Assembler Compilers Assembler Basic, Iris Basic, C Macro Basic, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, B-Cobol Intel Basic (Interpretive) Operating system Operating system Principal industry application Multitasking Not suppled Translator, Accounting, RICNG & AVAILABILITY Basic system configuration and price Modifications Streaming tape, high Supped printer processor, two user processor, two user processor, two user processor, streaming tape, high Submet installed to date OMMENTS CPU, 256KB memory, 8 user, 55MB disk, terminals w/high res. streaming tape, high Software basit or deleted without added or deleted without one to 17 CPUs CPU, 256KB memory, 8 users, 55MB disk, terminals w/high res. streaming tape, high Software basit for which systems on tworking—\$36,000 CPU, 256KB memory, 10MI disk, streaming carridge tape, 2MB cartridge tape, 1CRT, 150 O	Cassette/cartridge tape drives	90 ips; 8120bpi	None	90 ips; 160MB	90 ips (std.)
SOFTWARE Assembler Assembler Assembler Compilers Basic, Iris Basic, C Operating system Multitasking Operating system Multitasking Operating system Multitasking Principal industry application Multitasking Other packages Word Proc., Applications generator, BLIS Cobol Phicipal industry application Translator, Accounting, office automation, CAD/CAM, word processors, 34MB Winchester, steraming tape, high speed printer port, TTY port, 8 75-22 ports, operating system & one compiler ~35.950 CPU, 2MB memory, 8 users, 55MB disk, terminals w/high res. software, built in networking—\$36,000 CPU, 256KB memory, 10M disk, streaming carridge tape, 1 CRT, 150 cops printer ~314,000 More maintenance of basic configuration Date of first delivery Number installed to date 2000 me to 17 CPUs June 1983 10 Not supplied System with will support an added or deleted without software changes— provides expansion from one to 17 CPUs Not supplied System sof up to 16 users can be networked Consult dealers November 1982	OFTWARE Assembler Basic, Ciris Basic, C Macro Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol Intel Operating system Multitasking Multitasking Not supplied Basic, Cobol, Color Multitasking Operating system Multitasking Multitasking Multitasking Not supplied No Other packages Word Proc., Applications generator, BLIS Cobol Modital, Insurance, accounting General accounting RICING & AVAILABILITY Tanslator, Accounting Translator, Accounting, office automation, CAD/CAM, word processing CPU, 256KB memory, 10Mi disk, streaming tape, high speed printer port, TTY port, 8 RS-232 ports, operading system & one partial system & one to 17 CPUs CPU, 200 CPU, 256KB memory, 10Mi disk, streaming tape, 1 CRT, 150 cops printer Motor supplied Sareadsmear mather Sareadsmear mather Sareadsmear mather Mow mineresce of basic configuration Sareadsmear mather Not supplied Contact vendor Consult dealers Now maintenance of date of first delivery Non 1983 Not supplied Not supplied Contact vendor Consult dealers Now more installed to date User processor may be added or deleted without one to 17 CPUs<	Other perpherals supported				Diskettes: 1.2MB
SOFTWARE Assembler Compilers Assembler Basic, Iris Basic, C Macro BASIC, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Cobol, B-Basic, Cobol, B-Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, Basic, Cobol, B-Basic, No Multitasking Nutlitasking No Operating system Principal industry application Multitasking Included in software Business systems Multitasking Not supplied Third party General Multitasking Not supplied Accounting, office automation, CAD/CAM, word processing Realtime, batch No Multitasking No Other packages Word Proc., Applications generator, BLIS Cobol Translator, Accounting Accounting, office automation, CAD/CAM, word processing Realtime, batch No Multitasking No PRICING & AVAILABILITY Basic system configuration Date of first delivery T56KB, HOST processor, two user processors, speed printer port, TTY port, 8 RS-232 ports, operating system & one compiler—S35, 950 User processor may be added or deleted without software changes— november 1983 10 CPU, 256KB memory, 160MB disk, 160MB cartridge tape, 1 CRT, 150 ops printer —\$14,000 Date of first delivery Juna 1983 10 Juna 1983 10 System & one added or deleted without software changes— noversens of up to 16 users can be networked Contact vendor October 1983 Consult dealers November 1982 up to 16 users can be networked<	OFTWARE Assembler Compilers Assembler Basic, Iris Basic, C Macro Basic, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, B-Cobol Intel Basic, Cobol, B-Basic, B-Cobol Operating system Operating system Database management system Principal industry application Multitasking Parially Included in software Business systems Multitasking Vord Proc., Application General Multitasking, No Sustemation, CAD/CAM, word processing Realtime, batch No Opt. Multitasking No Opt. Other packages Word Proc., Application Translator, Accounting, Multitasking CPU, 256KB memory, 8 users, 55MB disk, streaming tape, high speed printer port, TTY port, 8 R5-232 ports, oorparing system & one compiler—\$35,950 CPU, 256KB memory, 8 users, 55MB disk, streaming tape, high software, built in networking—\$36,000 CPU, 256KB memory, 10MI disk, streaming ranilel port.—\$28,300 Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS Soo CPU sers can be networked Contact vendor oup to 16 users can be networked Contact vendor Consult dealers November 1982 Consult dealers November 1982	e non perproteite teppertet				
OFTWARE Compilers Assembler Basic, Iris Basic, C Assembler Basic, Iris Basic, C Macro BASIC, FORTRAN, PASCAL, COBOL, C Basic, Cobol, B-Basic, B-Cobol Intel Basic (interpretive) Operating system Operating system Operating system Principal industry application Principal industry application Multitasking Parially Included in software Business systems Multitasking Not supplied Third party General Realtime, batch No Multitasking No Other packages Word Proc., Applications generator, BLIS Cobol Accounting, office automation, CAD/CAM, word processing Realtime, batch No Multitasking No Spreadsheet, word processing PRICING & AVAILABILITY Basic system configuration and price 756KB, HOST processor, two user processor, software, built in operating system & one compiler—\$35,950 CPU, 216KB memory, 10MI disk, 160MB disk, 160MB cartridge tape, 2MB cartridge tape, 1 CRT, 150 cps printer Mo. maintenance of basic configuration Date of first delivery Number installed to date 20MMENTS January 1984 Not supplied Not supplied January 1984 Not supplied Contact vendor October 1983 Consult dealers November 1982 Dist of the view provides expansion from one to 17 CPUs Users can be networked Isseers can be networked Isseers can be networked	Assembler CompilersAssembler Basic, Iris Basic, CAssembler Basic, Iris Basic, CMacro BASIC, FORTRAN, PASCAL, COBOL, CBasic, Cobol, B-Basic, B-CobolIntel Basic (interpretive)Operating system Operating system Database management system Database management systemMultitasking Included in software Besices system SMultitasking Not supplied Translator, Accounting, office automation, CAD/CAM, word processingRealtime, batch No Opt.Multitasking No General accounting, financial General account	SOET MARE				
Assembler CompliersAssembler Basic, Liss Basic, CInter Basic, COBRTAN, PASCAL, COBOL, CDasaic, Coulo, B-Basic, B-CobolInter Basic, CobolBasic, Coulo, B-Basic, B-CobolInter Basic, CobolOperating system Optatabase management system Principal industry applicationMultitasking Included in software Business systemsMultitasking No Included in software Business systemsMultitasking No GeneralRealtime, batch No Opt.Multitasking Multitasking No Opt.Multitasking Multitasking No Opt.Realtime, batch No Opt.Multitasking Multitasking No accounting, financial General accountingOther packagesWord Proc., Application generator, AccountingAccounting, office automation, CAD/CAM, word processingRealtime, batch No Opt.Multitasking No accounting, financial General accountingSpreadsheet, word processingPRICING & AVAILABILITY Basic system configuration and price756KB, HOST processor, two user processors, 34MB Winchester, streaming tape, high speed printer port, TTY port, 8 RS-232 ports, operating system & one complier = 35,950CPU, 2MB memory, 8 users, 55MB disk, terminals w/high res. software, built in networking—\$38,000CPU, 256KB memory, 160MB disk, 160MB cartridge tape, 2MB cartridge tape, 2MB to added or deleted without software changes— provides expansion from one to 17 CPUsNo supplied to su	Assembler Compilers Assembler Compilers Assembler Compilers Assembler Compilers Assembler Compilers Basic, Iris Basic, C Basic, Iris Basic, C Basic, C Bas	Assessment	Assembles	Maara	Pasia Cabal B Pasia	Intel
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compiler—\$35,950Not suppliedContact vendorConsult dealersDate of first deliveryJune 1983January 1984October 1983November 1982Number installed to date10Not supplied1201500COMMENTSUser processor may be added or deleted without software changes— provides expansion from one to 17 CPUsSystem unit will support after which systems of up to 16 users can be networkednetworked	Mo. maintenance of basic configuration Date of first deliverycompiler—\$35,950 \$300Not suppliedContact vendorConsult dealersDate of first deliveryJune 1983January 1984October 1983November 1982Number installed to date10Not supplied1201500OMMENTSUser processor may be added or deleted without software changes— provides expansion from one to 17 CPUsSystem unit will support after which systems of networkedadded or deleted without software changes— intervention one to 17 CPUsbit of the system of intervention one to 17 CPUs		operating system & one	networking—\$36,000		1
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COMMENTS User processor may be added or deleted without software changes— provides expansion from one to 17 CPUs System unit will support an additional 8 users after which systems of up to 16 users can be networked	COMMENTS User processor may be added or deleted without software changes— System unit will support an additional 8 users after which systems of up to 16 users can be one to 17 CPUs	Number installed to date	10	Not supplied	120	11500
added or deleted without software changes—an additional 8 users after which systems of up to 16 users can be networkedone to 17 CPUsnetworked	added or deleted without an additional 8 users software changes— after which systems of provides expansion from up to 16 users can be one to 17 CPUs networked	COMMENTS	User processor may be	System unit will support	1	1
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provides expansion from one to 17 CPUs article which systems of networked	provides expansion from up to 16 users can be networked		software changes	after which systems of	1	1
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			one to 17 CPUs	networked	1	1
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MANUFACTURER AND MODEL	Rexon Business Machines Corp. RX200	Rexon Business Machines Corp. RX400/450	Rexon Business Machines Corp. RX105	Rexon Business Machines Corp. RX205
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	256KB-960KB	256KB-960KB	512KB-2MB	512KB-2MB
DISK STORAGE CAPACITY	28MB-56MB	56MB-280MB	40MB-80MB	70MB-140MB
NO. WORKSTATIONS SUPPORTED	1-12	1-16/1-32	8	12
PRICE RANGE	\$16,500-\$35,000	\$20,000-\$75,000	\$15,000-\$30,000	\$18,500-\$40,000
TARGET MARKET	Business & professional data processing	Business & professional data processing	Business & professional data processing	Business & professional data processing
CENTRAL PROCESSOR				
CPU manufacturer and model	Intel 8086-2	Intel 8086-2	Intel 8086-2	Intel 8086-2
Hardware floating point	No	No	Opt., double precision	Opt., double precision
Battery backup	No	No	None	None
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds MAIN STORAGE	137	137	166	166
Bytes fetched per cycle	2	2	2	2
Memory access	7.38M bits/sec.	7.38M bits/sec.	16M bits/sec.	16M bits/sec.
Cycle/access time, nanoseconds	542	542	333	333
Storage protection	None	None	Std.	Std.
Increment size, bytes	128K	128K	512K	512K
Cache memory, bytes	64K	64K (opt.)	None	None
INPUT/OUTPUT CONTROL				
No. of I/O channels		22/38 T- 625K h /-	14	18
	10 025K bytes/sec.	10 025K bytes/sec.	-	I—
	13	17/22		10
iviax. number of lines	113 Ont - 2.400 here	11/32	Э Nano	13
Synchronous	Upt.; 2,400 bps	Opt.; 2,400 bp3	None	None
Asynchronous Protocols supported	2780/3780	2780/3780	None	None
Type of LAN supported	None	None	Micnet	Micnet
RJE terminals emulated	2780/3780	2780/3780	None	None
IBM 3270 emulation	No	No	No	No
Disks supported	Fixed: 28MB-56MB	Fixed: 56MB-280MB	Fixed: 40MB-80MB	Fixed: 70MB-140MB
	150	450		
Serial printers	150 cps	150 cps	Any RS-232-C	Any RS-232-C
Letter quality printers		35 cps	35 cps	35 cps
Line printers	300 lpm	300 ipm	To 600 lpm	10 600 lpm
Reel-to-reel tape drives	None	None	None	None
Streaming tape drives		25 lps; 1000 bpi	25 ips; 1600 bpi	
Other perpherals supported	1.2MB diskettes	1.2MB Diskettes	1.2MB Diskettes	1.2MB Diskettes
SOFTIM A PE				
SOFIWARE	lass l	Intel	News	
Assembler			None	None
Compilers	Basic (Interpretive)	Basic (interpretive)	Cobol, SMC, Basic	Cobol, SMC, Basic
Operating system	Multitasking	Multitasking	Multitasking, Xenix 3.0	Multitasking, Xenix 3.0
Operating sys. implemented in firmware	No	No	No	No
Database management system	Idol	Idol		[—
Principal industry application	General accounting	General accounting	General accounting	General accounting
Other packages	Spreadsheet, word processing	Spreadsheet, word processing	<u> </u>	-
	, include proceeding	inclus proceeding		
Basic system configuration and price	CPUL 256KB momony	CPU 256KB momony	CPUL E12KR momony	CPUL E12KP memory
basic system comgutation and price	28MB disk_streaming	56MB disk streaming	40MB disk streaming	70MB disk streaming
	cartridge tane 1 CBT	cartridge tape 1 CBT	cartridge tane 1 CBT	cartridge tape 1 CBT
	150 cps printer	1 150 cps printer	1 150 cps printer	1 150 cps printer
	\$16,500	-\$24,000/\$35.000	-\$18,000	
Mo. maintenance of basic configuration	Consult dealers	Consult dealer	Consult dealer	Consult dealer
Date of first delivery	100vember 1983	June 1982/August 1984	November 1984	November 1984
	400	1000		<u> </u>
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NORD LENGTH WAIN MEMORY WAIN MEMORY DBK STORAGE CAPACITY DBK STORAGE C	OVERD LENGTH Ann MEMORY BISK STORACE CAPACITY DISK STORACE CAPACI	MANUFACTURER AND MODEL	Rexon Business Machines Corp. RX405	Sentinel Computer Corp. DS-130	Sentinel Computer Corp. DS-140	Sentinel Computer Corp. DS-170 & DS-180
MAIN MEMORY DATA MEMORY Sectors 512KE-2005 (1906) 12KE-196K (1906) 10KE-596K (1906) 22005 (2007) 22005 (2007) 22005 (2007) 22005 (2007) 22005 (2007) 22005 (2007) 22005 (2007) 2005 (2007)	AAN MERGAY AND STORAGE CAPACITY 100 WERKS AT	WORD LENGTH	16 bits	16 bits	16 bits	16 bits
Disk stronkage CAPACITY Disk stronkage CAPACI	 Siek STORAGE CAPACITY Siek Storage St	MAIN MEMORY	512KB-2MB	128K-196K	160K-896K	288K-896K
SO, WORKSTATIONS SUPPORTED INCLEMENT 16 (2) 20 (2) 10 (2) 20 (2) 10 (2) 1	US. WORKSTATIONS SUPPORTED INCLEMENT 16 (a) WORKSTATIONS SUPPORTED (b) Bases & professional of a processing PCF manifecture rand model is processing PCF manifecture rand model FMT antifecture rand model for manifecture rand model protocols approximation processing professional processing professional processional professional professional professional professional professional professional professional professional profesi professional professional professional professional professiona	DISK STORAGE CAPACITY	116MB-330MB	19.1MB-72MB	51 4MB-1 2GB	80MB-1 2GB
Phile E RAVGE Protect RAVGE \$22,000-875.000 \$21,000-875.000 \$21,000-800,000 \$25,500-885,000 Sattrad, HapQCISCOR Business & processing Business & processing Business & processing Business & processing CVU sumplicities and model Hard X087 ALL Business & processing Business Sattrad, Hardward Floating paint Hard X087 ALL Business & processing Business & processing Feal Startey hacking Std. Std. Std. Std. Std. Bytes finishing paint Hard X087 Z	Strice Fanker Strice F	NO WORKSTATIONS SUPPORTED	16	5	22	22
ARGET MARKET Jammes & professional data processional data processional based as processional model as processional based as processinter based as processional based as processional based as	ANGET MARKET Business B professional data processing Sections B professional data processing Intel B086 Intel		\$22,000 \$75,000	16 700 \$25 000	\$21 200 \$60 000	
CHATPAL PROCESSOR Less Processory Just 8086 Just 8086 </td <td>ENTRAL PROCESSOR Joint J Model Intel 8086 Joudie Double Double<!--</td--><td>TARGET MARKET</td><td>Business & professional</td><td>Business</td><td>821,200-560,000 Business</td><td>Business</td></td>	ENTRAL PROCESSOR Joint J Model Intel 8086 Joudie Double Double </td <td>TARGET MARKET</td> <td>Business & professional</td> <td>Business</td> <td>821,200-560,000 Business</td> <td>Business</td>	TARGET MARKET	Business & professional	Business	821,200-560,000 Business	Business
Current Construction and model Battery tacks or Battery t	Chu manoti chuire mai modal i harle 8086 / Opt. Intel 8086 / Opt. Opt. Battery buchip None Std. Std. Battery buchip None Std. Std. Martery buchip None Std. Std. Martery buchip 106 750 750 750 ANN STONAGE 106 700 750 750 Martery buchip 106 750 750 750 Martery buchip 106 760 660 660 Statistics 106 660 660 Statistics 106 80 660 660 Statistics 10 10 10 10 10 Statistics None None 10 10 10 Statistics 10 10 10 10 10 Statistics None 10 10 10 10 Statistics None 10 10 10 10 Statistics 10 10 10 10 10 Statistics 10 10 10 10 10 Statistics 10 10 10 10 Statistics 10	CENTRAL PROCESSOR				
Underse Double Double Double Double Double Rest entry lactor None Std. Std. <t< td=""><td>Deriver fracting provint Opr. Outbit Section Double of Control Double of Control Baterty backyon None Std. S</td><td>CPU manufacturer and model</td><td>Intol 9096 2</td><td>Intol 8086</td><td></td><td>Intel 9096</td></t<>	Deriver fracting provint Opr. Outbit Section Double of Control Double of Control Baterty backyon None Std. S	CPU manufacturer and model	Intol 9096 2	Intol 8086		Intel 9096
Instant point Open biologic Double Double Double Double Double Double Best functions of infinity and the function of the fun	Double Double Double Double Double Double Double Relithme dock or intern Std.			Dauble	Deut la	
ander vandarp einer Participarenteriparticiparticiparticiparticiparticiparticipartici	and in function of the second	Battany balance	Name	Double	Double	Double
Head time clock or liner Std. Std. Std. Std. Std. T50 760 <	Head time clock or inner Nd. Std. Std. Std. Std. ToO Whet Stende per cycle 2 2 2 2 2 2 Winnory access Std. None None None None None Strage interaction Std. None None None None None Strage interaction Std. None None None None None Strage interaction Std. None None None None None With TOUTPUT CONTROL Res Std. Std. Std. Std. No. of I/O channels 18 32 32 Std. Std. Std. Interaction None JSK bps 19.2K bps 19.2K bps 19.2K bps Std. Interaction None JSK bps 19.2K bps 19.2K bps 19.2K bps Std. Interaction None None 2780/3780 2780/3780 2780/3780 Tipe of LAM supported Mone None None None None Bist supported None None 300-600 pm None 300-600 pm Std. Strage inservice Std. 19.1MB-72MB Fixed: 19.1MB-28BMB Fixed	Battery backup	None	Opt.	Opt.	Opt.
CPU gryet imm, nanoseconds 166 750 750 750 Am STGACK 2 2 2 2 2 2 2 2 2 154 560 600 750 720 <t< td=""><td>CHU cycle time, nanoseconds 166 750 750 750 Marroy storess 2 2 2 2 2 2 2 30 bits/sec. 20 <t< td=""><td>Real-time clock or timer</td><td>Std.</td><td>Std.</td><td>Std.</td><td>Std.</td></t<></td></t<>	CHU cycle time, nanoseconds 166 750 750 750 Marroy storess 2 2 2 2 2 2 2 30 bits/sec. 20 bits/sec. 20 <t< td=""><td>Real-time clock or timer</td><td>Std.</td><td>Std.</td><td>Std.</td><td>Std.</td></t<>	Real-time clock or timer	Std.	Std.	Std.	Std.
The instruction 2 2 2 2 2 Momory access 333 16M bits/sec. 20 bits/sec.	Sints Technol procycle 2 2 2 2 2 2 2 2 10 20 1	CPU cycle time, nanoseconds	166	750	750	750
Promoved and the probability of the probability	Demony and a crypter 2 D Intryleec. 3	Butos fotobad par suela	2	2	2	
Minnory Access 10M bit/sec. 20 bit/sec. 32 bit/sec.	Memory access Total Dist/sec. 2D Int/sec. 2D Int/sec. <td>Bytes retched per cycle</td> <td>2</td> <td></td> <td>2</td> <td></td>	Bytes retched per cycle	2		2	
Cycle/access time, nanesconds 333 B60 B60 B60 B60 Cycle/access time, nanesconds 333 B60 B60 Mone None Status None 24K 4K 4K 4K Cache memory, tytes Inone 4K 4K 4K No. of 1/0 channels 18 32 32 32 Zatus transfer rate — 19.2KB/sec 19.2KB/sec 19.2KB/sec ZoMM.MCATIONS None 36K bop 19.2K bops 19.2KB/sec 19.2KB/sec Type of LAN supported None 2780/3780 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None 2580/3780 2780/3780 2780/3780 Type of LAN supported Fixed: 116MB-330MB Fixed: 19.1MB-288MB Fixed: 168.5MB Bread: fortran Any R5-22-C 55-340 cps 55-340 cps 55-340 cps Serial printers Any R5-22-C 55-340 cps 55-340 cps 55-340 cps Serial printers Any IbaskK, Basic	Cycle Jacobias supported 333 B60 B60 B60 B60 Cache memory, bytes 9 K 2x 2x 2x Anone 4K 4K 4K 4K 4K None 12.2KJ sec 12.2KJ sec 12.2KJ sec Obsta transfer rate - 12.2KJ sec 2780/3780 2780/3780 Protocols supported Mone None None None RETerminals emulated None None No No RETETRIAL COUMMENT None No No No Dask supported Resc: 118MB-330MB Fixed: 19.1MB-28BMB Fixed: 19.1MB-28BMB Real-co-teal tape drives Ary RS-232-C 55-340 cps 55-340 cps Strasmit upp drives 35 cps 55 cps 55 cps 55 cps Strasmit upp drives 25 (ps 1600 lpin 300-600 lpin <	Memory access	16M Dits/sec.	20 bits/sec.	20 bits/sec.	20 bits/sec.
Storage protection Std. None None None None Storage protection 512 X 32 X	Storage protection Std. None None None None Storage protection 512X 32X 32X 32X 32X Cade memory, bytes None 4K 4K 4K Cade memory, bytes None 4K 4K 4K Data transfer rate - 19.2KB/sec 19.2KB/sec 19.2KB/sec Max. number of lines - - 32 32 32 Synchronous None 96 bps 19.2K bps 19.2K bps 19.2K bps Asynchronous None 2780/3780 2780/3780 2780/3780 2780/3780 Type of LAN supported None None None None None None Rise terminals anumbated Fixed: 116MB-330MB Fixed: 19.1MB-72MB Fixed: 19.1MB-288MB Fixed: 10.8MB-72MB Serial printers Any PS-232-C 55.640 cpa 55.640 cpa 55.640 cpa 55.640 cpa Serial printers To 600 lpm 300-600 lpm 300-600 lpm 300-600 lpm 300-600 lpm None None None None 100 lps: 1600 bpi 100 lps: 1600 bpi 100 lps: 1600 bpi Operating system Operating system None None None None </td <td>Cycle/access time, nanoseconds</td> <td>333</td> <td>660</td> <td>660</td> <td>660</td>	Cycle/access time, nanoseconds	333	660	660	660
Increment size, bytes 512K 32K 32K 32K 4K	Increment size, bytes SAC 32K 32K 32K 32K 32K 32K 32K 32K 34K 34K 34K 34K 34K 34K 34K 34K 34K 34	Storage protection	Std.	None	None	None
Cache memory, bytes None 4K 4K 4K 4K 4K No. of JUG obtaineds 18 32	Cache memory, bytes None 4K 4K 4K 4K No. of U/O channels 18 32 32 32 32 No. of U/O channels 1 1 32.KB/sec 1 32.KB/sec 1 32.KB/sec 1 32.KB/sec 1 32.KB/sec 1 32.KB/sec 32 33 32 32 32 32 32 33 32 33 32 33 <	Increment size, bytes	512K	32K	32K	32K
NPLT/CONTENT CONTEND. No. of I/O channels. 18. of I/O channels. 19.2KB/sec 10.2KB/sec	NPLT/DUTEUT CONTROL 18 32 32 32 32 Data transfer rate - 19.2K8/sec 19.2K8/sec 19.2K8/sec 19.2K8/sec Max. number of lines 17 32 32 32 32 Max. number of lines 17 32 32 32 32 Max. number of lines 17 32 32 32 32 Max. number of lines None 2780/3780 2780/3780 2780/3780 2780/3780 Type of LAN supported None None 2780/3780 2780/3780 2780/3780 None REM Eterminals enulisted None 2780/3780 2780/3780 2780/3780 No No <td>Cache memory, bytes</td> <td>None</td> <td>4K</td> <td>4K</td> <td>4K</td>	Cache memory, bytes	None	4K	4K	4K
No. of UQ channels 18 32 32 32 32 Data transfer rate 19.2K8/sec 19.2K8/sec 19.2K8/sec 32 COMMUNCATIONS 77 32 32 32 32 Synchronous None 9.6K bps 9.2K bps 19.2K bps 19.2K bps Anychtonous None 9.6K bps 19.2K bps 19.2K bps 2780/3780 Protocols supported None 2780/3780 2780/3780 2780/3780 Protocols supported None 2780/3780 2780/3780 2780/3780 Protocols supported None None 2780/3780 2780/3780 2780/3780 Straig printers Any RS-232.C 55.340 cps 55.340 cps 55.340 cps 55.340 cps Straig printers Any RS-232.C 30.6400 lpm 300-600 lpm 300-600 lpm None Straig printers Any RS-232.C 35.340 cps 55.340 cps 55.340 cps 55.340 cps Straig printers Any RS-232.C 35.640 cps 55.240 cps 55.240 cps Straig printers Any RS-232.C 30.600 lpm 300-600 lpm None None None None None None None Streaming ta	No. of UO channels 18 32 32 32 32 COMMURCATIONS - 19.2K8/sec 19.2K8/sec 19.2K8/sec 19.2K8/sec COMMURCATIONS 17 32 32 32 32 Synchronous None 9.6K bps 19.2K bps 19.2K bps 19.2K bps Anychronous None 9.6K bps 19.2K bps 19.2K bps 19.2K bps Type of LAN supported Mone 2780/3780 2780/3780 2780/3780 Type of LAN supported Mone 2780/3780 7870 7870 BM 3270 annualsion None 2780/3780 No No BM 3270 annualsion No No No No Serial printers Any RS-232-C 55 cps 55 cps 55 cps 55 cps Latter quality printers To 600 bpn 200-600 bpn 300-600 bpn 300-600 bpn Socaster(surring tape drives 25 ips: 1600 bpi 60-100MB 60-100MB 60-100MB Off WARE Assembler None Macro (DBL) Basic, Cobol, Basic, Cobol, Corputiers None Macro (DBL) Basic, Cobol, Basic, Cobol, Desketter 1.6MB 1.6MB isk, streaming Colo Dist </td <td>INPUT/OUTPUT CONTROL</td> <td> </td> <td></td> <td>1</td> <td></td>	INPUT/OUTPUT CONTROL			1	
Data trainister rate 19.2KB/sec 19.2KB/sec 19.2KB/sec Max. number of lines 17 32 32 32 Max. number of lines 17 32 32 32 Ayurchronous Sit, 19.200 bps 19.2K bps 19.2K bps 19.2K bps Type of LAN supported None 19.2K bps 19.2K bps 19.2K bps Type of LAN supported None 2780/3780 2780/3780 2780/3780 REL terrindis enublisted None None None None BM 3270 enulation None None So ps 55 cap 55 cap Serial printers Any RS-232-C 55 cap 55 cap 55 cap 55 cap Linet printers Any RS-232-C 55 cap 55 cap 50 cap 50 cap Cassetric/cartridge tape drives 25 ps 100 ips: 4500 pin None None None Cassetric/cartridge tape drives 25 ps 100 ips: 4500 pin 50-100MB 60-100MB 60-100MB Operating system Operating system Matritasking, batch Pascal, Fortran Pascal, Fortran Operating system Operating system General accounting Matritasking, batch Pascal, Fortran Operating sys	Data transfer rate 19.2KB/sec 19.2KB/sec 19.2KB/sec Max, number of lines 17 32 32 32 Asynchronous Std.: 19.200 bps 19.2K bps 19.2K bps 19.2K bps Asynchronous Std.: 19.200 bps 19.2K bps 19.2K bps 19.2K bps Type of LAN supported None 19.2K bps 19.2K bps 19.2K bps Type of LAN supported Micnet None 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None None 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None None None None None Enter quality printers Any RS-232-C 55-340 cps 55 cps 55 cps 55 cps 55 cps 55 cps 50 cps 50 cps 50 cps 50 cps 50 cps 50 cps 60 cpm None 100 ips: 1600 bpi 100 ips: 1600 bpi 60-100MB	No. of I/O channels	18	32	32	32
COMMUNCA TIONS 17 132 32 32 Synchronous Asynchronous 9.6K bps 19.2K bps 32, 32 Synchronous None 9.6K bps 19.2K bps 19.2K bps Protocols supported None 2780/3780 2780/3780 2780/3780 Type of LAN supported None 2780/3780 2780/3780 2780/3780 Ret terminals emulated None 2780/3780 72780/3780 2780/3780 BM 3270 emulation None 2780/3780 780 780 BM 3270 emulation None 2780/3780 780 780 BM 3270 emulation None 55.340 ops 55.340 ops 55.340 ops Streaming tape drives 30 e600 lpm 300-600 lpm 300-600 lpm 300-600 lpm Streaming tape drives 50 (ps; 1600 bpi 50 ops 55 ops 55 ops Streaming tape drives 50 (ps; 1600 bpi 50 ops 100 (ps; 1600 bpi 100 (ps; 1600 bpi Operating system None None None None None Operating system Metrio focus Lev II, Cobol, SMC, Basic Matritaking, batch Pascal, Fortran Pracel periating system General accounting Metrio 108L Basic, Cobol, BodS Metc	COMMUNCATIONS 17.1 32 32 32 Synchronous None 17.1 32 32 Synchronous None 9.6K bps 19.2K bps 19.2K bps Asynchronous Std.: 19.200 bps 19.2K bps 19.2K bps 2780/3780 Z780/3780 2780/3780 2780/3780 2780/3780 2780/3780 Type of LAN supported Monet None None None Retirements None 2780/3780 2780/3780 2780/3780 Disks supported None None None None Serial printers 16.000 bpr None None None Simaming tape drives 30 cps 55.340 cps 55.340 cps 55.340 cps Simaming tape drives 30 cps 55.340 cps 55.340 cps 55.340 cps Simaming tape drives 30 cps 50.500 bpi 100 tpi 1600 bpi None Other parbnards supported None None None None Other parbnards supported None Site of case 55.340 cps 55.340 cps Serial printers 1.2MB Diskettes 100 tpi 1600 bpi 100 tpi 1600 bpi 100 tpi 1600 bpi Other parbnards supported None None	Data transfer rate	<u> </u>	19.2KB/sec	19.2KB/sec	19.2KB/sec
Total methods Total Sinder construction Total Sinder construction Site is synchronous None None Site is synchronous None None <td>Type 17 32 32 32 32 None 96K bps 96K bps 96K bps 19.2K bps 19.2K bps Arynchronous Std; 19.200 bps 19.2K bps 19.2K bps 19.2K bps Type of LAN supported None 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None None 2780/3780 2780/3780 Type of LAN supported Micnet None 2780/3780 2780/3780 2780/3780 Streaminals emulated None 2780/3780 2780/3780 None Streaming tape drives Any R5-232-C 55-340 cps 55-340 cps 55-340 cps Streaming tape drives 35 cps 55 cps 55 cps 55 cps 55 cps Streaming tape drives 25 ps; 1600 bpi 100 ips; 1600 bpi 100 ips; 1600 bpi 60-100MB Other parberals supported 1.2MB Diskettes 1.0MB Partally Diskettes 1.6MB Diskettes 1.6MB Operating system More focus Basic, Cobol, Basic, Cobol, Basic, Cobol, Operating system General accounting Industrial, Distribution Medical, credit union, accounting CHU packages - Medical, credit union, accounting CPU, 128KB memory, 11.6MB di</td> <td>COMMUNICATIONS</td> <td></td> <td></td> <td></td> <td></td>	Type 17 32 32 32 32 None 96K bps 96K bps 96K bps 19.2K bps 19.2K bps Arynchronous Std; 19.200 bps 19.2K bps 19.2K bps 19.2K bps Type of LAN supported None 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None None 2780/3780 2780/3780 Type of LAN supported Micnet None 2780/3780 2780/3780 2780/3780 Streaminals emulated None 2780/3780 2780/3780 None Streaming tape drives Any R5-232-C 55-340 cps 55-340 cps 55-340 cps Streaming tape drives 35 cps 55 cps 55 cps 55 cps 55 cps Streaming tape drives 25 ps; 1600 bpi 100 ips; 1600 bpi 100 ips; 1600 bpi 60-100MB Other parberals supported 1.2MB Diskettes 1.0MB Partally Diskettes 1.6MB Diskettes 1.6MB Operating system More focus Basic, Cobol, Basic, Cobol, Basic, Cobol, Operating system General accounting Industrial, Distribution Medical, credit union, accounting CHU packages - Medical, credit union, accounting CPU, 128KB memory, 11.6MB di	COMMUNICATIONS				
Market House Nome 26 k bps 36 k bps 36 k bps 37 k bps Apyrotocols supported None 19 2K bps 19 2K bps 19 2K bps 19 2K bps Type of LAN supported None 2780/3780 2780/3780 2780/3780 Type of LAN supported None 2780/3780 2780/3780 2780/3780 REM statistic None 2780/3780 2780/3780 2780/3780 BM 3270 enulation None 2780/3780 2780/3780 2780/3780 Srial printers Any RS-232-C 55-340 cps 55-340 cps 55-340 cps Line printers Any RS-232-C 55-340 cps 55 cps 55 cps Line printers Any RS-232-C 55-340 cps 55 cps 55 cps Steating tape drives 70 600 lpm 300-600 lpm 300-600 lpm 300-600 lpm Streaming tape drives 25 lps; 1600 bpi 60 -100M8 60 -100M8 60 -100M8 Other partherials supported 1.2/MB Dakattes 1.6/MB Dakattes 1.6/MB Operating system More focus in the system Parially Parially Parially Operating system General accounting Industrial, Distribution Medical, credit union, accounting CHCING & AVAILABULTY	mm. number of sime More Set kps Set k	Max number of lines	17	32	32	32
Ayuchanoos None 9.06. pps 19.2K ps 19.2K	Anuclinuous Plot. opps 19.06. opps 19.2K bps 19.2K bps Protocols supported None 19.2K bps 19.2K bps 19.2K bps Protocols supported None 19.2K bps 19.2K bps 19.2K bps Protocols supported None 2780/3780 2780/3780 2780/3780 Protocols supported None 2780/3780 2780/3780 2780/3780 Bill 3227 eminals emulated None 2780/3780 2780/3780 None Bill 3227 eminals emulated None 2780/3780 2780/3780 No Serial printers Any RS-232-C 55-340 cps 55-340 cps 55-340 cps Streaming tape drives To 600 lpm 300-600 lpm 300-600 lpm 300-600 lpm Streaming tape drives None None None None Streaming tape drives So (pp: 4500 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi Competer So (pp: 4500 kpi 50-100MB 60-100MB 60-100MB Corperating system None None None None Corpular System Multitasking, batch Partially Pascal, Fortran Pascal System General accounting Industrial, Distribution Industrial, Distri		Nana	0 GK has	O EK has	
Asynchronous protected supported None 19.2X Ops 2780/3780 2780/378	Asynthetications Asyntheticat	Asuration		JO OK DOS	10 2K has	SOK DPS
rrotocois supported None 2780/3780 2780/3780 2780/3780 2780/3780 Type of LAN supported Micnet None 2780/3780 2780/3780 2780/3780 BM 3270 enulation No None 2780/3780 2780/3780 2780/3780 BM 3270 enulation No No No No No BM 3270 enulation No No No No Daks supported Fixed: 118/MB-330MB Fixed: 19.1MB-72MB Fixed: 19.1MB-72MB Fixed: 19.1MB-72MB Data supported Fixed: 10.01MB-72MB Fixed: 19.1MB-72MB Fixed: 19.1MB-72MB Fixed: 19.1MB-72MB Serial printers Any RS-232-C 55.340 cps 55.340 cps 55.360 ps Streaming tape drives None None None None None None None None None None Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 Dpi 100 ips: 1600 Dpi 60-100MB 60-100MB Other performers None None None None None Compilers Micro Focus Lev II, Cobol, SMC, Basic Pascal, Fortran Pascal, Fortran Pascal, Fortran Derating system — — DEOS DEOS DEO	rrotocois supported None 2780/3780 2780/3780 2780/3780 Type of LAN supported None None None None None BMI 3270 emulation None 2780/3780 2780/3780 None BMI 4270 emulation None 2780/3780 2780/3780 None BMI 5270 emulation No No No No No Bus supported Fixed: 116MB-330MB Fixed: 19.1MB-72MB Fixed: 19.1MB-72MB Fixed: 19.1MB-72MB Straid printers Any RS-232.C 55-340 cps 55-340 cps 55-340 cps Straid printers To 600 lpm 300-600 lpm 300-600 lpm 300-600 lpm Real-to-real tape drives None None None None Other parberals supported 12.2MB Diskettes 100 ips: 1600 bpi 60-100MB 60-100MB Other parberals supported 12.2MB Diskettes Diskettes 1.6MB Diskettes 1.6MB Diskettes 1.6MB Operating system None Macro (DBL) Macro (DBL) Basic, Cobi, Basic, Cobi, Operating system — Multitasking, batch Parially Parially Operating system — General accounting Multitasking, batch Operating system —<	Asynchronous	Sta.; 19,200 bps	19.2K bps	19.2K bps	19.2K bps
Type of LAN supported IBM 3270 emulation IBM	Type of LAN supported IBM 3270 enulation IBM 32700 enul	Protocols supported	None	2780/3780	2780/3780	2780/3780
RJE terminals emulation None 2780/3780 2780/3780 No BM 3270 emulation No No No No No PERPHEAL EQUIPMENT Fixed: 116MB-330MB Fixed: 19.1MB-72MB Fixed: 19.1MB-288MB Fixed: 16.5MB Serial printers Any RS-232-C 55-340 cps 55-340 cps 55-340 cps Letter quality printers 35 cps 55 cps 55 cps 55 cps Streaming tape drives 25 [sp: 1600 bpi 100 [sp: 1600 bpi 000 [sp: 1600 bpi Conter performance None None None Software 12.2ME Diskettes 100 [sp: 1600 bpi 00 [sp: 1600 bpi Conter performance 10.0 [sp: 1600 bpi 00 [sp: 1600 bpi 00 [sp: 1600 bpi Conter performance None None None None Software None Macro (DBL) Basic, Cobol, Basic, Cobol, Compilers More Force Law II, Basic, Cobol, Basic, Cobol, Pascal, Fortran Operating system Macro (DBL) Basic, Cobol, Pascal, Fortran Pascal, Fortran Operating system General accounting Motitasking, batch Partially Principal industry application General accounting CPU, 128KB memory, 15.00 </td <td>RLE terminate emulated None 2780/3780 2780/3780 2780/3780 No BM 3270 emulation No No No No No ERIPHERAL EQUIPMENT Disks supported Fixed: 118/IMB-330MB Fixed: 119.1MB-72MB Fixed: 119.1MB-28MB Fixed: 109.1MB-28MB Fixed: 100.1MB Fixed: 100.1MB Fixed: 109.1MB-28MB Fixed: 109.1MB-28MB Fixed: 109.1M</td> <td>Type of LAN supported</td> <td>Micnet</td> <td>None</td> <td>None</td> <td>None</td>	RLE terminate emulated None 2780/3780 2780/3780 2780/3780 No BM 3270 emulation No No No No No ERIPHERAL EQUIPMENT Disks supported Fixed: 118/IMB-330MB Fixed: 119.1MB-72MB Fixed: 119.1MB-28MB Fixed: 109.1MB-28MB Fixed: 100.1MB Fixed: 100.1MB Fixed: 109.1MB-28MB Fixed: 109.1MB-28MB Fixed: 109.1M	Type of LAN supported	Micnet	None	None	None
IBM 3270 emulation No No No No No Disks supported Fixed: 19.1MB-72MB Fixed: 19.1MB-72MB Fixed: 19.1MB-288MB	IBM 3270 emulation No No No IBM 3270 emulation No No No No Disks supported Fixed: 116MB-330MB Fixed: 19.1MB-72MB Fixed: 19.1MB-288MB Fixed: 19.1MB-288MB Swite printers Any RS-232-C 55-340 cps 55-340 cps 55-340 cps Line printers To 600 [pm 300-600 [pm 300-600 [pm None No No 100 [ps: 1600 bpi 50-100MB 100 [ps: 1600 bpi Streaming tape drives 25 [ps: 1600 bpi 50-100MB 100 [ps: 1600 bpi 60-100MB Operating system None Macro (DBL) Basic, Cobol, Pascel, Fortran Operating system Multitasking, Xenix 3.0 Multitasking, batch Parally Optatabase management system - Medical, credit union, accounting CPU, 512KB memory, 116MB fisks, 16MB 104strial, Distribution Rickel to cape fisse - Medical, credit union, accounting CPU, 122KB memory, 116MB fisse, 16MB DBoS Rickel to cape printer - Medical, credit union, accounting CPU, 128KB memory, 116MB fisse, 1984 Operating system configuration and price CPU, 512KB memory, 116MK fisse, 16MB Fised cace, operating system - No CPU, 512KB memory, 116MB fisse, streaming Sidot cared c	RJE terminals emulated	None	2780/3780	2780/3780	2780/3780
PEIPFERAL EQUEMENT No No No No Disks supported Fixed: 116/MB-330MB Fixed: 19.1MB-72MB Fixed: 19.1MB-288MB Fixed: 18.5MB Construction Fixed: 116/MB-330MB Fixed: 19.1MB-72MB Fixed: 19.1MB-728MB Fixed: 18.5MB Construction Spial printers 35 cps 55 cps 55 cps 55 cps Letter quality printers 35 cps 55 cps 55 cps 55 cps 55 cps Straming tape drives None None None None None Cassently cartridge tape drives 90 ips: 45MB (std.) Diskettes 1.6MB Diskettes 1.6MB Diskettes 1.6MB Other perpherals supported 12/MB Diskettes Diskettes 1.6MB Diskettes 1.6MB Diskettes 1.6MB Operating system More Focus Lev II, Cobol, SMC, Basic Macro (DBL) Macro (DBL) Macro (DBL) Database management system General accounting Multitasking, batch Parainally Principal industry application General accounting CPU, 128KB memory, 116MB disk, 16MB Medical, credit union, accounting CPU, 160KB memory, 116MB disk, 16MB Sist card cage, operating system	Perpertad, EQUIPMENT No No No No Disks supported Fixed: 116/MB-330/MB Fixed: 19.1MB-72MB Fixed: 19.1MB-288MB Fixed: 168.5MB Strial printers Any RS-232-C 55-340 cps 55-360 cps 55-360 cps Letter quality printers 35 cps 55 cps 55 cps 55 cps 55 cps Streaming tape drives None None None None Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi Other perpherals supported 1.2MB Diskettes 100 ips: 1600 bpi 60-100MB Operating system Multitasking, Xenix 3.0 Multitasking, batch Pascal, Fortran Operating system Multitasking, Xenix 3.0 Multitasking, batch Partially Datase angement system — DBOS Industrial, Distribution Multitasking, batch Principal industry application General accounting CPU, 512KB memory, 115 MB disk, 16MB 100 ips: 1600 bpi Other packages — Medical, credit union, accounting CPU, 160KB memory, 116 MB disk, 16MB Other ackages — Medical, credit union, accounting CPU, 128KB memory, 116 MB disk, 16MB Other ackages — Medical, credit union, accounting Stard cage, operating system	IBM 3270 emulation	No	No	No	No
Lin Luch Look and the Look a	Dirk Luber Lot in the Lo					140
Dasks supported Free: 1000-33000 Free: 1000-33000 Free: 1000-30000 Serial printers Any RS-232-C 35 55-340 cps 55-340 cp	Datas supported Index 11 forms 300mB Index 15 (IND - 2000B Index	Disks supported	Ewed 11CMP 220MP	Eined 10 IMP 70MP	Eined 10 1MD 200MD	Finade 160 FMD
Serial primters Letter quality primters Any RS-232-C 55-340 cps 55-340 cps 55-340 cps Letter quality primters 35 cps 55 cps 55 cps 55 cps 55 cps Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi Sorter-dei tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi Other perpherals supported 1.2MB Diskettes Diskettes 1.6MB Diskettes 1.6MB Diskettes 1.6MB SOFTWARE None Macro (DBL) Basic, Cobol, Basic, Cobol, Compilers Micro Focus Lev II, Cobol, SMC, Basic Macro (DBL) Basic, Cobol, Operating system Milittasking, Xenx 3.0 Multitasking, batch Parially Pascal, Fortran Operating system General accounting Industrial, Distribution Industrial, distribution Other packages — Medical, credit union, accounting CPU, 128KB memory, 116MB disk, streaming cartridge tape. 107, 1120 cps printer Soft card cage, operating system CPU, 128KB memory, 19.1MB disk, 1.6MB 1.6MB floppy, 1920 char, CRT, 12 solt card cage, operating system CPU, 288KB memory, 19.1MB disk, 1.6MB Other packages — Soft card cage, operating system CPU, 128KB memory, 19.1MB disk, 1.6MB 1.6MB floppy, 1920 char, CRT, 150 cops printer <td>Serial printers Any RS-232-C 55-340 cps 55-340 cps 55-340 cps Letter quality printers 35 cps 55 cps 55 cps 55 cps Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 300-600 lpm 300-600 lpm Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi Coher parphrals supported 1.2MB Diskettes Diskettes 1.6MB Diskettes 1.6MB SOFTWARE Micro Focus Lev II, Cobol, SMC, Basic, Cobol, Basic, Cobol, Basic, Cobol, Macro (DBL) Operating system Micro Focus Lev II, Cobol, SMC, Basic Macro (DBL) Macro (DBL) Database management system - Multitasking, Sentch Partially Other parkages - Midical, credit union, accounting Midical, credit union, accounting Midical, credit union, accounting Other packages - - Midical, credit union, accounting Midical, credit union, accounting PRCING & AVAILABILITY Cops printer - S134 S170 Sist offst delivery November 1984 Foruary 1985 March 1985 No. maintenance of basic configuration Cosult dealer Nort supplied No. maintenance of basic configuration Cosult dealer S134 S170</td> <td>Disks supported</td> <td>FIXED. I TOIVID-330WID</td> <td>Fixed: 19. TVID-72IVID</td> <td>Fixed: 19.11VID-2881VID</td> <td>Fixed: 108.5IVIB</td>	Serial printers Any RS-232-C 55-340 cps 55-340 cps 55-340 cps Letter quality printers 35 cps 55 cps 55 cps 55 cps Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 300-600 lpm 300-600 lpm Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi Coher parphrals supported 1.2MB Diskettes Diskettes 1.6MB Diskettes 1.6MB SOFTWARE Micro Focus Lev II, Cobol, SMC, Basic, Cobol, Basic, Cobol, Basic, Cobol, Macro (DBL) Operating system Micro Focus Lev II, Cobol, SMC, Basic Macro (DBL) Macro (DBL) Database management system - Multitasking, Sentch Partially Other parkages - Midical, credit union, accounting Midical, credit union, accounting Midical, credit union, accounting Other packages - - Midical, credit union, accounting Midical, credit union, accounting PRCING & AVAILABILITY Cops printer - S134 S170 Sist offst delivery November 1984 Foruary 1985 March 1985 No. maintenance of basic configuration Cosult dealer Nort supplied No. maintenance of basic configuration Cosult dealer S134 S170	Disks supported	FIXED. I TOIVID-330WID	Fixed: 19. TVID-72IVID	Fixed: 19.11VID-2881VID	Fixed: 108.5IVIB
Serial printers Any RS-22-C 55-30 ops 55-30 ops 55-30 ops Liter quality printers 300-600 lpm 300-600 lpm 300-600 lpm Line printers To 600 lpm 300-600 lpm 300-600 lpm Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 60-100MB Cassette/cartridge tape drives 90 ips: 45MB (std.) 60-100MB 60-100MB Other perpherals supported 1.2MB Diskettes Diskettes 1.6MB SOFTWARE Assembler None Macro (DBL) Macro (DBL) Compilers None More Focus Lev II, Cobol, SMC, Basic, Cobol, Basic, Cobol, Partially Basic, Cobol, Partially Basic, Cobol, Partially Detabase management system Multitasking, Xenix 3.0 Multitasking, batch Partially Partially Database management system OBOS DBOS Other packages — General accounting Medical, credit union, accounting CPU, 128KB memory, 116MB disk, streaming cartridge tape, 1.07, 1920 char. CRT, 5 slot card cage, -526,000 CPU, 128KB memory, 13.1MB disk, 1.6MB CPU, 288KB memory, 13.1MB disk, 1.6MB Momer insting system — — Stot card cage, -516,700 Stot card cage, -514,700 Momer insting system — — Stot card cage, -521,200 Stot card cage, -521,200	Serial printers Any HS-22-C 55-30 ops 55-30 ops 55-340 ops Liter quality printers 300-600 lpm 300-600 lpm 300-600 lpm 300-600 lpm Line printers None None None None Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 60-100MB Chert pryherals supported 1.2MB Diskettes Diskettes 1.60MB SOFTWARE Assembler None Macro (DBL) Basic, Cobol, Compilers None Macro (DBL) Basic, Cobol, Basic, Cobol, Operating system Multitasking, Xenix 3.0 Multitasking, batch Partially Database management system Operating system Multitasking, Xenix 3.0 Multitasking, batch Partially Database management system Principal industry application General accounting Industrial, Distribution Industrial, Distribution RICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1150 opp printer 514MB disk, 1.6MB 51.4MB disk, 1.6MB Motor addeler November 1984 Fabruary 1985 51.4MB system -\$21,200 Motor addeler November 1984 Not supplied Not supplied					Removable: 80MB-300MB
Letter quality printers35 cps55 cps55 cps55 cpsLetter quality printersTo 600 lpm300-600 lpm300-600 lpm300-600 lpmReel-to-rel tape drives25 lps; 1500 bpi100 lps; 1600 bpi100 lps; 1600 bpiStreaming tape drives25 lps; 1600 bpi60-100MB60-100MBOther perpherals supported1.2MB DiskettesDiskettes1.6MBSOFTWARENoneNoneMacro (DBL)Basic, Cobol, Pascal, FortranAssemblerNoneMacro (DBL)Basic, Cobol, Pascal, FortranBasic, Cobol, Pascal, FortranOperating system Principal industry applicationMultitasking, Xenix 3.0 General accountingMultitasking, batch Partially DBOS Industrial, DistributionMultitasking, batch Partially DBOS DBOSMultitasking, batch Partially DBOSPrincipal industry applicationCPU, 512KB memory, 1.50 op printer -\$26,000CPU, 128KB memory, -\$11.000 parting system -\$11.000 parting systemCPU, 128KB memory, -\$11.000 parting system -\$21.200CPU, 288KB memory, -\$23.600Mo. maintenance of basic configuration Date of first delivery Number instaled to dateConsult dealer November 1884 Not supplied\$134 February 1985\$170 March 1985 March 1985\$292 March 1985 March 1984 Not supplied	Letter quality printers 36 cps 55 cps 300-800 lpm 300-800 lpm 300-800 lpm 300-800 lpm 300-800 lpm 300-800 lpm None None <t< td=""><td>Serial printers</td><td>Any RS-232-C</td><td>55-340 cps</td><td>55-340 cps</td><td>55-340 cps</td></t<>	Serial printers	Any RS-232-C	55-340 cps	55-340 cps	55-340 cps
Line printers To 600 (pm 300-600 (pm 300-600 (pm 300-600 (pm Streaming tape drives None None None None Streaming tape drives 90 (ps; 45MB (std.) 60 - 100 (ps; 1600 bpi 100 (ps; 1600 bpi 100 (ps; 1600 bpi Cassette/carring tape drives 90 (ps; 45MB (std.) 60 - 100MB 60 - 100MB 60 - 100MB SOFTWARE None None Macro (DBL) Basic, Cobol, Basic, Cobol, Compilers Micro Focus Lev II, Basic, Cobol, Basic, Cobol, Basic, Cobol, Operating system None Multitasking, Xenix 3.0 Partially Partially Database management system - General accounting Industrial, Distribution Industrial, Distribution Other packages - Multitasking, katra, Distribution Industrial, Distribution Industrial, Distribution Other packages - Sto card cage, operating system CPU, 512KB memory, 1150 cps printer Sto card cage, operating system CPU, 180KB memory, 51.4MB disk, 16MB floppy, 1920 char. CRT, 12 slot card cage, operating system - - - Sto card cage, operating system - Sto card cage, operating system - - Sto card cage, operating system - - Sto card cage, operating system	Line printers To 600 (pm 300-600 (pm 300-600 (pm 300-600 (pm None None None None None None Streaming tape drives 25 (ps: 1600 bpi 100 (ps: 1600 bpi 100 (ps: 1600 bpi 60-100MB 60-100MB 00-100MB	Letter quality printers	35 cps	55 cps	55 cps	55 cps
Reet-oreel tape drives None None None None None Streaming tape drives 25 jps; 1600 bpi 90 jps; 4500 bpi 100 jps; 1600 bpi 100 jps; 1600 bpi 100 jps; 1600 bpi Cassette/carridge tape drives 1.2MB Diskettes Diskettes 1.6MB Diskettes 1.6MB Operating system None Macro (DBL) Basic, Cabol, Basic, Cabol, Basic, Cabol, Operating system Multitasking, Xenix 3.0 Multitasking, batch Partially Partially Database management system - DBOS Industrial, Distribution Industrial, distribution Other packages - - Medical, credit union, accounting Accounting PRICING & AVAILABILITY Easic configuration and price CPU, 512KB memory, 1150 op printer 514MB disk, 16MB floppy, 1920 char. CRT, 12 slot card cage, operating system CPU, 128KB memory, - Nome - Stot card cage, operating system - Stot card cage, operating system Pation first delivery Nowember 1984 November 1984 Nore accounting Stot card cage, operating system Philoping and price CPU, 512KB memory, 1150 ops printer 11.8MB disk, 16MB floppy, 1920 char. CRT, 12 slot card cage, operating system 51.4MB disk, 16MB floppy, 1920 char. CRT, 12 slot card cage, operating system - <td>Reet-or-sel tape drives None No</td> <td>Line printers</td> <td>To 600 lpm</td> <td>300-600 lpm</td> <td>300-600 lpm</td> <td>300-600 lpm</td>	Reet-or-sel tape drives None No	Line printers	To 600 lpm	300-600 lpm	300-600 lpm	300-600 lpm
Streaming tape drives Cassette/ouridge tape drives Other perpherals supported25 ips: 1600 bpi (50: ps: 45MB (std.) 1.2MB Diskettes100 ips: 1600 bpi (60: 100MB Diskettes 1.6MB100 ips: 1600 bpi (50: 100MB100 ips: 1600 bpi (51: 4MB disk, 1.6MB floppy, 1920 char. CHT, 150: 40: 20: 40: 40; 40: 40: 40: 40: 40: 40: 40: 40: 40: 40:	Streaming tape drives 25 ips: 1600 bpi 100 ips: 1600 bpi 100 ips: 1600 bpi 60-100MB 60-100MB 60-100MB Other perpherals supported 1.2MB Diskettes Diskettes 1.8MB Diskettes 1.60MB Diskettes	Reel-to-reel tape drives	None	None	None	None
Cassent/2 rurrindge tage drives Other perpherals supported 90 ips: 45MB (std.) 1.2MB Diskettes 60-100MB Diskettes 1.6MB 60-100MB D	Cassentig/carrindge tape drives Other perpherals supported 90 ips: 45MB (std.) 1.2MB Diskettes 60-100MB Diskettes 1.6MB 60-100MB D	Streaming tape drives	25 ips; 1600 bpi	100 ips; 1600 bpi	100 ips; 1600 bpi	100 ips; 1600 bpi
Other perpherals supported 1.2MB Diskettes Diskettes 1.6MB Diskettes 1.6MB Diskettes 1.6MB SOFTWARE Assembler Compilers None Micro Focus Lev II, Cobol, SMC, Basic Diskettes 1.6MB Macro (DBL) Basic, Cobol, Pascal, Fortran Mutitasking, batch Partially DBOS Matri Basic, Cobol, Pascal, Credit union, accounting Mactina, Distribution Industrial, Distribution Industrial, Distribution Industrial, Distribution Macro (DBL) Boos Macro (DBL) Boos Macro (DBL) Boos Industrial, Distribution Industrial, Distribution Industrial, Distribution Ind	Other perpherals supported 1.2MB Diskettes Diskettes 1.6MB Diskettes 1.6MB SOFTWARE Assembler None Macro (DBL) Basic, Cobol, Basic, Cobol, Pascal, Fortran Multitasking, batch Partially Diskettes 1.6MB Industrial, Distribution Multitasking, batch Partially DBOS Industrial, Distribution Industrial, Distribution Industrial, Distribution Medical, credit union, accounting CPU, 160KB memory, 160MB removable disk, 16MB floppy, 1920 char, CRT, 1910 char, CRT, 11600 B removable disk, 16MB floppy, 1920 char, CRT, 12 slot card cage, operating system\$21,200 S170 S292	Cassette/cartridge tape drives	90 ips: 45MB (std.)	60-100MB	60-100MB	60-100MB
SOFTWARE Assembler None Macro (DBL) Basic, Cobol, Macro (DBL) Assembler Micro Focus Lev II, Compilers Macro (DBL) Basic, Cobol, Macro (DBL) Operating system Multitasking, Xenix 3.0 Multitasking, batch Partially Multitasking, batch Partially Multitasking, batch Partially Operating system Multitasking, Xenix 3.0 Multitasking, Cobol, SMC Multitasking, batch Partially Multitasking, batch Partially Other packages — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting PRICING & AVAILABILITY Basic configuration and price CPU, 512KB memory, 11500 cps printer —\$26,000 CPU, 128KB memory, 11500 cps printer —\$21,200 CPU, 160KB memory, 51,4MB disk, 1.6MB 510 cpur, 1920 char. CRT, 5 slot card cage, operating system CPU, 288KB memory, 51,4MB disk, 1.6MB 51,700 CPU, 288KB memory, 51,4MB disk, 1.6MB 51,700 S120 Mo. maintenance of basic configuration Date of first delivery Number installed to date 20MMENTS Consult dealer \$134 S170 March 1985 Not supplied March 1984 Not supplied	Control product opported Finite Exercise 1 Mills Exercise 1 Mills Exercise 1 Mills SOFTWARE Assembler Macro (DBL) Basic, Cobol, Basic, Cobol, Compilers Miltitasking, Xenix 3.0 Multitasking, batch Pascal, Fortran Pascal, Fortran Operating system Multitasking, batch Partially DBOS Partially Database management system — Medical, credit union, accounting Medical, credit union, accounting Other packages — Medical, credit union, accounting Medical, credit union, accounting VICING & AVAILABILITY Estic test first Soft card cage, operating system Medical, credit union, accounting No. maintenance of basic configuration Consult dealer S134 S170 Nome Consult dealer S134 February 1985 Not supplied Nome maintenance of basic configuration Consult dealer S134 S170 Number instaled to date S134 Stord cage, operating system — - S134 February 1985 Not supplied	Other perpherals supported	1 2MB Diskettes	Diskettes 1 6MB	Diskettes 1 6MB	Diskettes 1 6MB
SOFTWARE Assembler Compilers None Micro Focus Lev II, Cobol, SMC, Basic Macro (DBL) Basic, Cobol, Pascal, Fortran Macro (DBL) Basic, Cobol, Pascal, Fortran Macro (DBL) Basic, Cobol, Pascal, Fortran Operating system Operating system Principal industry application Multitasking, Xenix 3.0 Deteral accounting Multitasking, batch Partially DBOS Multitasking, batch Partially DBO	SDFTWARE Assembler Compilers None Micro Focus Lev II, Cobol, SMC, Basic Macro (DBL) Basic, Cobol, Pascal, Fortran Macro (DBL) Basic, Cobol, Pascal, Fortran Macro (DBL) Basic, Cobol, Pascal, Fortran Operating system Database management system Principal industry application Multitasking, Xenix 3.0 General accounting Multitasking, batch Partially DBOS Multitasking, batch Partially SIMB disk, 16MB floppy, 1920 char. CRT, 1 2 solt card cage, operating system -S1,200 CPU, 160KB memory, 1 2 solt card cage, operating system -S1,200 CPU, 28KB	other perpherals supported	1.2MB Diskettes	Diskettes 1.0MB	Diskettes 1.0MB	Diskettes 1.0MB
Assembler Compilers None Macro (DBL) Micro Focus Lev II, Cobol, SMC, Basic Macro (DBL) Basic, Cobol, Pascal, Fortran Macro (DBL) Basic, Cobol, Pascal, Fortran Macro (DBL) Basic, Cobol, Pascal, Fortran Macro (DBL) Basic, Cobol, Pascal, Fortran Operating system Operating system Database management system Principal industrial, Distribution Multitasking, batch Partially DBOS Multitasking, batch Partially DBOS Multitasking, batch Partially DBOS Multitasking, batch Partially DBOS Other packages — Medical, credit union, accounting *RICING & AVAILABILITY Basic system configuration and price Data of first delivery Number installed to date DOM CPU, 512KB memory, 116MB disk, streaming carridge tape, 1 CRT, 1 50 ops printer -\$26,000 CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system -\$16,700 CPU, 288KB memory, 12. slot card cage, operating system -\$28,500 Mo. maintenance of basic configuration Date of first delivery Number installed to date DOMMENTS Consult dealer November 1984 \$134 February 1985 Not supplied \$170 March 1985 Not supplied \$292 March 1984 Not supplied	Assembler Compilers None Micro Focus Lev II, Cobol, SMC, Basic Cobol, SMC, Cobol, Parcall, Parcell, Stribution Industrial, Distribution Industrial, Distribution Industrial, Distribution Industrial, Distribution Industrial, Distribution Industrial, Distribution Medical, credit union, accounting Other packages — Medical, credit union, accounting carridge tape, 1 CRT, 150 Cps printer -S16,700 Medical, Credit union, accounting Sist Card Cage, operating system -S16,700 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 2 Slot Card Cage, operating system -S16,700 CPU, 288KB memory, 1.6MB floppy, 1920 char. CRT, Slot Card Cage, operating system -S16,700 Slot Card Cage, operating system -S16,700 Slot Slot Card Cage, operating system -S16,700 Sl	SOFTWARE				
AssentionNoteProceedingNote<	Assembles Micro Focus Lav II, Compilers Micro Focus Lav II, Cobol, SMC, Basic Micro Focus Lav II, Cobol, SMC, Basic Basic, Cobol, Pascal, Fortran Multitasking, batch Partially DBOS Partially DBOS Multitasking, batch Partially DBOS Partially DBOS Multitasking, batch Partially DBOS Partially DBOS DBOS Industrial, distribution Industrial, Distribution Industrial, Distribution Industrial, Distribution Medical, credit union, accounting CPU, 160KB memory, 514MB disk, 16MB floppy, 1920 char, CRT, 12 slot card cage, operating system CPU, 288KB memory, 516,700 SMB removable disk, 1.6MB floppy, 1920 char, CRT, 12 slot card cage, operating system CRT, 12 slot card cage, operating system Stard cage, operating system Stard cage, operating system Stard cage, Not supplied Stard cage, Not supplied Stard ca	Assembler	None	Macro (DBL)	Macro (DBL)	Macro (DBL)
ComparisonIndict Podus Lev II, Cobol, SMC, BasicBasic, Cobol, Pascal, FortranBasic, Cobol, Pascal, FortranPascal, Fortran<	Computers Inicid Folds EV II, Cobol, SMC, Basic Deskic, Cobol, Pascal, Fortran Pascal, Fortran Multitasking, batch Partially Partially Partially Partially Partially Partially Partially Partially Pattially Pattially Pattially Pattially Pattially Pattially Pattially Pascal, Fortran Multitasking, batch Pattially Pattially Pascal, Fortran Multitasking, batch Pattially Pascal, Fortran Pascal, Fortran Multitasking, batch Pattially Pascal, Fortran Pascal	Compilero	Miero Feello Levill	Basia Cabal	Basia Cabal	Paola Cabal
Operating system Operating system Database management system Principal industry applicationMultitasking, Xenix 3.0 Multitasking, Xenix 3.0 Multitasking, Xenix 3.0 General accountingMultitasking, batch Parially DBOS Industrial, DistributionMultitasking, batch Parially DBOS Industrial, distributionMultitasking, batch Parially DBOS Industrial, distributionMultitasking, batch Parially DBOS Industrial, distributionMultitasking, batch Parially DBOS Industrial, distributionMultitasking, batch Parially DBOSMultitasking, batch Parially DBOSMultitasking	Operating system Operating system Database management system Principal industry applicationMultitasking, Xenix 3.0 Multitasking, Xenix 3.0 — General accountingMultitasking, batch Partially DBOS Industrial, DistributionMultitasking, batch Partially Industrial, distributionMultitasking, batch Partially Partially Industrial, distributionMultitasking, batch Partially Industrial, distributionMu	Compliers	IVICIO FOCUS LEV II,	Basic, CODOI,	Basic, CODOI,	Basic, Cobol,
Operating system Operating system Database management systemMultitasking, Xenix 3.0 Partially General accountingMultitasking, batch Partially DBOS Industrial, DistributionMultitasking, batch Partially DBOS <b< td=""><td>Operating system Operating system Database management system Principal industry applicationMultitasking, Xenix 3.0 No General accountingMultitasking, batch Partially DBOS Industrial, DistributionMultitasking, batch Partially DBOS Industrial, distributionMultitasking, batch Partially DBOS Industrial, distributionMultitasking, batch Partially DBOS Industrial, distributionMultitasking, batch Partially DBOS Industrial, distributionOther packages——Medical, credit union, accountingMedical, credit union, accountingMedical, credit union, accountingMedical, credit union, accountingPRICING & AVAILABILITY Basic system configuration and price DAGCPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 2 slot card cage, operating system —\$21,200CPU, 288KB memory, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200CPU, 288KB memory, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200S292 March 1985 Not suppliedMo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTSNovember 1984 Not supplied\$134 February 1985 Not supplied\$170 March 1985 Not supplied\$292 March 1984 Not supplied</td><td></td><td>CODOI, SIVIC, Basic</td><td>Pascal, Fortran</td><td>Pascal, Fortran</td><td>Pascal, Fortran</td></b<>	Operating system Operating system Database management system Principal industry applicationMultitasking, Xenix 3.0 No General accountingMultitasking, batch Partially DBOS Industrial, DistributionMultitasking, batch Partially DBOS Industrial, distributionMultitasking, batch Partially DBOS Industrial, distributionMultitasking, batch Partially DBOS Industrial, distributionMultitasking, batch Partially DBOS Industrial, distributionOther packages——Medical, credit union, accountingMedical, credit union, accountingMedical, credit union, accountingMedical, credit union, accountingPRICING & AVAILABILITY Basic system configuration and price DAGCPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 2 slot card cage, operating system —\$21,200CPU, 288KB memory, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200CPU, 288KB memory, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200S292 March 1985 Not suppliedMo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTSNovember 1984 Not supplied\$134 February 1985 Not supplied\$170 March 1985 Not supplied\$292 March 1984 Not supplied		CODOI, SIVIC, Basic	Pascal, Fortran	Pascal, Fortran	Pascal, Fortran
Operating system Multitasking, Xenix 3.0 Multitasking, batch Multitasking, batch Multitasking, batch Multitasking, batch Multitasking, batch Derating system — — Multitasking, batch Partially Partially Database management system — — — Batch Partially Other packages — — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 1920 char. CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 12 slot card cage, operating system CPU, 128KB memory, 12 slot card cage, operating system CRT, 12 slot card cage, operating system Operating system —\$21,200 ~\$36,500 Mo. maintenance of basic configuration Date of first delivery November 1984 February 1985 Not supplied Not supplied Not supplied	Operating system Multitasking, Xenix 3.0 Multitasking, batch Multitasking, batch Multitasking, batch Operating system No Partially Partially Partially Partially Partially DBOS Industrial, distribution Industrial, distribution Industrial, distribution Industrial, distribution Industrial, distribution Medical, credit union, accounting Other packages Multitasking, batch Partially DBOS Industrial, distribution Medical, credit union, accounting PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 1150 tesp rinter CPU, 512KB memory, 1180 disk, 1.6MB Floppy, 1920 char. CRT, 12 slot card cage, operating system CPU, 100KB memory, 1160MB disk, streaming cartridge tape, 1 CRT, 1 150 cep printer S14MB disk, 1.6MB Bfoppy, 1920 char. CRT, 12 slot card cage, operating system \$14MB disk, 1.6MB S16MB floppy, 1920 char. CRT, 12 slot card cage, operating system \$16,700 - \$21,200 CPU, 128KB memory, 116G tesp rinter Nowember 1984 Not supplied Not supplied Not supplied Not supplied - Mountitasking, batch Partially CPU, 512KB memory, 114MB disk, 1.6MB S14MB disk, 1.6MB S16MB floppy, 1920 char. CRT, 150 cep cage, operating system<			1		
Operating sys. implemented in firmware No Partially Partially Partially Database management system — DBOS DBOS DBOS Principal industry application General accounting Industrial, Distribution Industrial, distribution Industrial, Distribution Other packages — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting PRICING & AVAILABILITY Easic system configuration and price CPU, 512KB memory, 116MB disk, streamory, 116MB disk, streamory, 116MB disk, streamory, 256,000 S1.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 150 cps printer —\$\$26,000 S004 created cage, 0perating system —\$\$16,700 CPU, 180KB memory, 251,200 Mo. maintenance of basic configuration Date of first delivery Number installed to date Cnosult dealer \$134 \$170 \$292 Not supplied Not supplied Not supplied Not supplied Not supplied Not supplied	Operating sys. implemented in firmwarel No Partially Partially Partially Partially Database management system — DBOS DBOS Industrial, distribution Industrial, distribution Other packages — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting RICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer — \$26,000 CPU, 128KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 150 cps printer — \$26,000 CPU, 128KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system Slot card cage, operating system Operating system — — Slot card cage, operating system — Slot card cage, operating system <	Operating system	Iviuititasking, Xenix 3.0	iviuititasking, batch	liviuititasking, batch	wultitasking, batch
Database management system Principal industry application — BOS DBOS Industrial, distribution Other packages — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cops printer -\$26,000 CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 1 150 cops printer -\$16,700 CPU, 160KB memory, 12 slot card cage, operating system -\$21,200 CPU, 288KB memory, 12 slot card cage, operating system -\$21,200 CPU, 288KB memory, 12 slot card cage, operating system -\$21,200 CPU, 128KB memory, 12 slot card cage, operating system -\$21,200 CPU, 12 slot card cage, operating system Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS Consult dealer November 1984 \$134 February 1985 Not supplied \$170 March 1985 Not supplied %292 March 1984 Not supplied	Database management system Principal industry application — DBOS General accounting DBOS Industrial, Distribution DBOS Industrial, distribution DBOS Industrial, distribution DBOS Industrial, distribution DBOS Other packages — Medical, credit union, accounting Medical, cred	Operating sys. implemented in firmware	No	Partially	Partially	Partially
Principal industry application General accounting Industrial, Distribution Industrial, distribution Industrial, Distribution Other packages — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 51.4MB disk, 1.6MB floopy, 1920 char. CRT, 1 2 slot card cage, operating system —\$16,700 CPU, 100 char. CRT, 1 2 slot card cage, operating system —\$21,000 CRT, 12 slot card cage, operating system —\$21,000 S134 Mo. maintenance of basic configuration Date of first delivery Number installed to date Consult dealer November 1984 \$134 \$170 \$292 Not supplied Not supplied Not supplied Not supplied Not supplied Not supplied	Principal industry application General accounting Industrial, Distribution Industrial, distribution Industrial, distribution Other packages — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 514MB disk, 1.6MB floppy, 1920 char. CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 514 cred cage, operating system —\$21,200 CRT, 12 slot card cage, operating system —\$21,200 CRT, 12 slot card cage, operating system —\$21,200 CRT, 12 slot card cage, operating system —\$21,200 Mo. maintenance of basic configuration Date of first delivery Consult dealer \$134 \$170 \$292 Number installed to date — Not supplied Not supplied Not supplied Not supplied	Database management system	—	DBOS	DBOS	DBOS
Other packages—Medical, credit union, accountingMedical, credit union, accountingMedical, credit union, accountingPRICING & AVAILABILITY Basic system configuration and priceCPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system —\$16,700CPU, 160KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200CPU, 288KB memory, 80MB removable disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$26,000CPU, 288KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200CPU, 288KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200CPU, 288KB memory, 80MB removable disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$36,500Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTSConsult dealer Not supplied\$170 March 1984 Not supplied\$292 March 1984 Not supplied	Other packages — Medical, credit union, accounting Medical, credit union, accounting Accounting PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 Cops printer —\$26,000 CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$21,200 CPU, 128KB memory, 12 slot card cage, operating system —\$21,200 CPU, 128KB memory, 12 slot card cage, operating system —\$21,200 CPU, 128KB memory, 12 slot card cage, operating system —\$21,200 CRT, 12 slot card cage, operating system —\$21,200 Stro Stro Stro Mo. maintenance of basic configuration Date of first delivery Consult dealer Stro	Principal industry application	General accounting	Industrial, Distribution	Industrial, distribution	Industrial, Distribution
Other packages — Medical, credit union, accounting Medical, credit union, accounting Medical, credit union, accounting PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$slo,000 CPU, 128KB memory, 12 MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system CPU, 288KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system CRT, 12 slot card cage, operating system CRT, 12 slot card cage, operating system CRT, 12 slot card cage, operating system Slot Slot Slot CRT, 12 slot Slot CRT, 12 slot Slot CRT, 12 slot Slot CRT, 12 slot Slot CRT, 12 slot	Other packages — Medical, credit union, accounting Medical, credit union, accounting RICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4ME disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4ME disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4ME disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4ME disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$26,000 S1.4ME disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$21,200 S2.92 Mo. maintenance of basic configuration Date of first delivery Consult dealer Not supplied S1.70 \$292 Number installed to date March 1985 Not supplied Not supplied Not supplied Not supplied		1		1	1
PRICING & AVAILABILITY Basic system configuration and priceCPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer \$26,000CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system \$26,000CPU, 128KB memory, 15 slot card cage, operating system \$26,000CPU, 128KB memory, 12 slot card cage, operating system \$21,200CPU, 288KB memory, 80MB removable disk, 12 slot card cage, operating system \$26,000CPU, 128KB memory, 15 slot card cage, operating system \$21,200CPU, 288KB memory, 80MB removable disk, 12 slot card cage, operating system \$26,000CPU, 128KB memory, 12 slot card cage, operating system \$21,200CPU, 288KB memory, 80MB removable disk, 12 slot card cage, operating system \$26,000CPU, 128KB memory, 15 slot card cage, operating system \$21,200CPU, 160KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system \$26,000CPU, 288KB memory, 80MB removable disk, 12 slot card cage, operating system \$21,200CPU, 288KB memory, 80MB removable disk, 12 slot card cage, operating system \$21,200CPU, 160KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system \$21,200CPU, 288KB memory, 80MB removable disk, 16 slot card cage, operating system \$26,000CPU, 28KB memory, 80MB removable disk, 16 slot card cage, operating system \$21,200CPU, 120 char. CRT, 12 slot card cage, 0perating system \$21,200CRT, 12 slot card cage, 0perating system \$21,200CPU, 28 KB memory, 80MB removable disk, 10 KB memory, 10 KB memory, 10 K	PRICING & AVAILABILITY accounting accounting accounting accounting Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming carring tage tage, 1 CRT, 1 150 cps printer -\$26,000 CPU, 128KB memory, 19.IMB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system -\$16,700 CPU, 160KB memory, 5 L4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system CPU, 288KB memory, 1.6MB floppy, 1920 char. CRT, 2 slot card cage, operating system Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS Consult dealer November 1984 \$134 February 1985 Not supplied \$170 March 1985 Not supplied \$292 March 1984 Not supplied	Other packages		Medical, credit union,	Medical, credit union,	Medical, credit union,
PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer -\$26,000 CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system -\$16,700 CPU, 160KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$26,000 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 280KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CPU, 180KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 CRT, 12 slot card cage, operating system -\$36,500 Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS Consult dealer November 1984 Not supplied \$10 Not supplied	PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system —\$16,700 CPU, 120 char. CRT, 1 2 slot card cage, operating system —\$21,200 CRT, 12 slot card cage, operating system —\$36,500 Mo. maintenance of basic configuration Date of first delivery Consult dealer \$134 \$170 \$292 Number installed to date Not supplied \$134 \$170 \$292 March 1985 Not supplied Not supplied Not supplied \$100 \$100 \$100		1	accounting	accounting	accounting
PRICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 1920 char. CRT, 5 slot card cage, operating system —\$16,700 CPU, 160KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$26,000 S134 S170 S292 Mo. maintenance of basic configuration Date of first delivery Consult dealer S134 S170 S292 March 1985 Number installed to date COMMENTS S104 S170 S104 S104 S170	RICING & AVAILABILITY Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer 5 slot card cage, -\$26,000 \$12 slot card cage, 0perating system -\$16,700 -\$16,700 \$170 Mo. maintenance of basic configuration Consult dealer November 1984 \$134 Pervine installed to date \$170 SOMMENTS \$292 March 1985 Not supplied			-	1	-
Basic system configuration and price CPU, 512KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer —\$26,000 CPU, 128KB memory, 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system —\$16,700 CPU, 160KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200 CPU, 288KB memory, 80MB removable disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system —\$16,700 CPU, 160KB memory, 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200 CPU, 288KB memory, 80MB removable disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system —\$21,200 Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS Consult dealer November 1984 \$134 February 1985 Not supplied \$170 March 1985 Not supplied \$292 March 1984 Not supplied	Basic system configuration and price CPU, 512KB memory, CPU, 128KB memory, CPU, 160KB memory, CPU, 288KB memory, 116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer -\$26,000 CPU, 128KB memory, S1.4MB disk, 1.6MB 80MB removable disk, Mo. maintenance of basic configuration Date of first delivery Number installed to date Consult dealer \$134 \$170 \$292 Mox maintenance of first delivery COMMENTS November 1984 — Mox supplied March 1985 March 1985 Not supplied Not supplied Not supplied Not supplied Not supplied Not supplied	PRICING & AVAILABILITY				
116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer -\$26,00019.1MB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system -\$16,70051.4MB disk, 1.6MB floppy, 1920 char. CRT, 1 2 slot card cage, operating system -\$21,20080MB removable disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$36,500Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTSConsult dealer November 1984\$134 February 1985 Not supplied\$170 March 1985 Not supplied\$292 March 1984 Not supplied	116MB disk, streaming cartridge tape, 1 CRT, 1 150 cps printer -\$26,000 19.1MB disk, 1.6MB floppy, 1920 char. CRT, 5 slot card cage, operating system -\$16,700 51.4MB disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 80MB removable disk, 1.6MB floppy, 1920 char. CRT, 12 slot card cage, operating system -\$21,200 Mo. maintenance of basic configuration Date of first delivery Number installed to date :OMMENTS Consult dealer November 1984 \$134 \$170 \$292 Mo. maintenance of basic configuration Date of first delivery November 1984 February 1985 March 1985 March 1984 Not supplied Not supplied Not supplied Not supplied Not supplied	Basic system configuration and price	CPU, 512KB memory,	CPU, 128KB memory,	CPU, 160KB memory.	CPU, 288KB memory,
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS Not supplied Not supplied	Mo. maintenance of basic configuration Date of first delivery Consult dealer \$134 \$170 \$292 March 1985 March 1985 March 1985 March 1985 March 1985 March 1984 Not supplied	,	116MB disk streaming	19 1MB disk 1 6MB	51 4MB disk 1 6MB	80MB removable disk
Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Number installed to date November 1984 February 1985 March 1985 March 1985 COMMENTS Not supplied Not supplied Not supplied Not supplied Not supplied	Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS		Cartridge tape 1 CBT	floppy 1920 char CBT	floppy 1920 char CBT	1 6MB floppy 1920 char
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS Consult dealer Not supplied Consult dealer Not	Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS Not supplied Not supplied			Filet and see	10 Jat and and	CDT 12 slat and some
Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Number installed to date November 1984 February 1985 March 1985 March 1984 COMMENTS Not supplied Not supplied Not supplied Not supplied	Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Number installed to date Not supplied March 1985 March 1984 .COMMENTS Model Not supplied Not supplied		1 150 cps printer	is siot card cage,	i∠ siot carα cage,	CRI, 12 slot card cage,
Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Date of first delivery November 1984 February 1985 March 1985 March 1984 Number installed to date — Not supplied Not supplied Not supplied	Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS			operating system	operating system	operating system
Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Date of first delivery November 1984 February 1985 March 1985 March 1984 Number installed to date — Not supplied Not supplied Not supplied COMMENTS — — — — — —	Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Date of first delivery November 1984 February 1985 March 1985 March 1984 Number installed to date — Not supplied Not supplied Not supplied COMMENTS		1	\$16,700		\$36,500
Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Date of first delivery November 1984 February 1985 March 1985 March 1984 Number installed to date — Not supplied Not supplied Not supplied COMMENTS — — — — — —	Mo. maintenance of basic configuration Consult dealer \$134 \$170 \$292 Date of first delivery November 1984 February 1985 March 1985 March 1985 Number installed to date — Not supplied Not supplied Not supplied COMMENTS — — — — — —				t i	
Date of first delivery November 1984 February 1985 March 1985 March 1985 Not supplied Not supplied Not supplied Not supplied Not supplied Not supplied	Date of first delivery November 1984 February 1985 March 1985 March 1984 Not supplied Not supplice Not suppli	Mo maintenance of basic configuration	Consult dealer	\$134	\$170	\$292
Number installed to date	Number installed to date	Date of first delivery	November 1984	Echrupry 1985	March 1985	March 1994
COMMENTS	COMMENTS	Number installed to dete		Not supplied	Not supplied	Not supplied
				han anthing	Liner anthrea	haor subblied
		CONNIVIENTS	1		-	1
			1	1	1	1
						1
				1		1
			1			1
			1	1		
				1	1	

MANUFACTURER AND MODEL	Sequent Computer Systems Balance 8000	Sperry Corp. System 80 Models 4 & 6	Sperry Corp. System 80 Model 8	Terak Corporation 8510
WORD LENGTH MAIN MEMORY	16/32 bits 1MB-28MB	16 bits 524KB-4MB	16 bits 1MB-8MB	16 bits 128KB-512KB
DISK STORAGE CAPACITY	70MB-5GB	128MB-1.3GB	617MB-12GB	2MB-4MB
PRICE RANGE TARGET MARKET	\$50,000-\$225,000 Technical	\$66,082-\$300,000 Commercial	\$123,900-\$700,000 Commercial	\$12,000-\$40,000 Technical
CENTRAL PROCESSOR				
CPU manufacturer and model	NSC 32032	Proprietary	Proprietary	DEC LSI-11/23
Hardware floating point	Double precision	Single/double	Single/double	Std.
Beal-time clock or timer	Std	Std	Std	None
CPU cycle time, nanoseconds	200	180	120	600
MAIN STORAGE			(
Bytes fetched per cycle	8	4	8	2
Memory access	192M bits/sec.	<u> </u>	<u> -</u>	16
Cycle/access time, nanoseconds	300	400	480	600
Storage protection	510.	STO.	Std.	None
Cache memory bytes	STZN 8K	None	None	D4K Nope
NPUT/OUTPUT CONTROL		THOME .	None	None
No. of I/O channels	8	3	6	1
Data transfer rate	1.5M bytes/sec.	6MB/sec.	8MB/sec.	2M bytes/sec.
COMMUNICATIONS				
Max. number of lines	128	8	28	8
Synchronous	None bps	Opt.; to 56K bps	Opt.; to 56K bps	None
Asynchronous Protocols supported	Opt.; 19.2K bps	PSC TTV Univer BC 7	Opt.; to 19.2K bps	4 Std./4 Opt.; 19.2K bps
Protocols supported	Ethernet, TCP/IP, UUCP		BSC, TTY, Univac, BC-7,m	Async
Type of LAN supported	Ethernet	Usernet	Lisernet	None
RJE terminals emulated	None	HASP	HASP	None
IBM 3270 emulation	None	Yes	Yes	No
PERIPHERAL EQUIPMENT				
Disks supported	Fixed: 70MB/400MB	Fixed: 118.2MB-491MB Removable: 72.3MB	Fixed: 118.2MB-491MB Removable: 29MB-200MB	Winchester: to 40MB; Floppy: 1.2MB
Serial printers	—	80-200cps	80-200 cps	120cps
Letter quality printers		190 1200km	55 cps	None
Reel-to-reel tabe drives	None	75ins: 800/1600 bni	75ins: 80/1600	None
Streaming tape drives	25 ips: 1600 bpi	Start/stop: 100/25ips	Start/stop: 100/25 ips	None
Cassette/cartridge tape drives	1/4" streaming	25 ips; 200-1600 bpi	25-125 ips; 200-1600 bpi	None
Other perpherals supported		Card equipment, diskette	Card equipment, diskette	640x480 mono graphics-
]	2 planes
	Maara	Desis secondular	Designed and the second s	
Compilers	C Fortran Pascal	Cobol Fortran IV	Basic assembler	Assembler
Compilera		Basic, RPGII, Escort, Mapper	Basic, RPGII, Escort, Mapper	C
Operating system	Unix, multitasking	Batch, Realtime	Batch, Real-time	RT-11, Venix, UCSD Pasc.
Operating sys. implemented in firmware	No	Partially	Partially	No
Database management system	None	DMS	DMS	None
Principal industry application	CAE, CAIVI, general	Office automation,	Office automation,	CAD/D-mechanical/
Other packages	pupose	Accounting wholesale/	Accounting wholesale/	Spreadsheet word
		distribution, manu-	distribution, manu-	processing
		facturing	facturing	
PRICING & AVAILABILITY		j] -	
Basic system configuration and price	2 CPUs, 2MB memory,	Model 4: CPU, 524KB	CPU, 1MB memory; 3MB	DesignPro turnkey
	SCSI, Ethernet,	memory; 118.2MB disk;	add-on memory; two 1MB	CAD/D system, mono,
	dicks 16 torminal lines	console w/keyboard; 2	diskette drives; tour	10MB Winchester, 1.2MB
		1MB diskette: 180 lpm	tape units: eight 200	software \$27,400
	\$00,000	printer	cos printers: 1200 lpm	
			printers: 40 terminals/	
			keyboards—\$651,914	
Mo. maintenance of basic configuration	Contact distributor	\$618	\$3,761	
Date of first delivery	August 1984	July 1982	December 1983	January 1983
NUMBER INSTALLED to date	10 Multiprocessor	Not supplied	Not supplied	500
COMINICIAL 2	wumprocessor		Supports variety of	1
			Series SU periprierais	
	1			
		1		
		1		
	1	1	}	

MANUFACTURER AND MODEL	Terak Corporation 8600	Texas Instruments, Inc. Business System 352A	Texas Instruments, Inc Business System 371A, 372A	Texas Instruments, I Business System 661A
	16 bits	16 bits	16 bit	16 bit
	128KB 512KB	256KB-1MB	256KB-2MB	512KP 2MP
		17040		
DISK STURAGE CAPACITY	2110-4110			BUIVIB
NO. WORKSTATIONS SUPPORTED	1		/	40
PRICE RANGE	\$18,000-\$50,000	\$9,995	·	\$34,800-\$37,800
TARGET MARKET	Technical	Business	Business	Business
CENTRAL PROCESSOR				
CRI manufacturer and model	ISI 11/22 Intol 9096			TL 990/10A
CFO manufacturer and model	LSI-11/23, IIItel 8080	11 99000	11 99000	11 990/ IUA
Hardware floating point	Std.	None	None	None
Battery backup	None	None	None	Opt.
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds	600	200	220	200
MAIN STORAGE				
Bytes fetched per cycle	2	2	2	2
Memory access	16	27M hits/sec	27M bits/sec	27M hits/sec
Cuele (access	600	27101 51137 366.	27141 51(3/366.	27141 Dit3/360.
Cycle/access time, nanoseconos	800		<u> </u>	
Storage protection	None	Mem Map	Mem Map	Std. ECC
Increment size, bytes	64K	256K	256K	256K,512K,1M,1.5M,2M
Cache memory, bytes	None	None	None	4K
INPUT/OUTPUT CONTROL				
No. of I/O channels	1	1	1	12
	2M buton (and	2 2000 /000	2 2MP (200	2MD / 200
Data transfer rate	ZIVI DYTES/SEC.	J.ZIVIB/SEC.	J.ZIVIB/SEC.	JIVIB/second
COMMUNICATIONS		and the second		
Max. number of lines	8	6	6	40
Synchronous	None	Opt., 19.2K bps	Opt., 9.6K bps	Opt., 19.2K bps
Asynchronous	4 Std /4 Opt - 19 2K bps	Opt 9 6K bps	Opt 9 6K bps	Std 9 6K bps:Opt 19 2K
Protocolo suprortad	A ouro	CNA X 2E 2700/2700	CNA V 25 2700 (2700	ENA V 25 2700 0700
Frotocois supported	Asylic	SNA, A.20, 3/80/2/80	JINA, A.20, 3/80/2/80	JUNA, A.25, 3/80/2/80
Type of LAN supported	None	Ethernet	Ethernet	Ethernet
R IE terminals emulated	None	3780/2780	3780/2780	3780/2780
	None	3/80/2/80	3780/2780	3760/2780
IBIVI 3270 emulation	NO	Yes	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Winchester: to 40MB; Floppy: 1.2MB	Winchester: 17MB	Winchester: 18MB-43MB	Fixed: 67MB Removable: 13MB
Serial printers	120cps	150 cps	150 cps	150 cps
Letter quality printers	None	35 cms	35 cpc	35 cms
Line printers	None	None	Nono	
Line printers	None	NOTE	None	300-600 ipm
Reel-to-reel tape drives	None	None	None	45 ips; 1600 bpi
Streaming tape drives	None	None	None	None
Cassette/cartridge tape drives	None	None	14.5MB, 30 ips read	None
Other perpherals supported	640x480 mono graphics-	1.2MB diskette, 931 VDT	93 VDT	931 VDT
	6 planes			
SOFTWARE	•			
Assembler	Assembler	Assembler	Assembler	Assembler
Compilers	Fortran Pascal Basic	Cobol Basic Fortran	Cobol Basic Fortran	Cobol Basic Fortran
compilers	Contrain, Tascar, Dasic,	Descal	Deced	CODOI, Basic, Fortiali,
		Fascal	rascal	rascal
Operating system	BT-11 Venix LICED Page	Multitasking	Multitasking	Multitacking
Operating ave implemented in frame	No. No. 11, Venix, OCOD Fasc.	No	Ne	
operating sys. implemented in firmware	INO	INO	INO	NO
Database management system	None	DBMS	DBMS	DBMS
Principal industry application	CAD/D-mechanical/	1		
· · · ·	technical			1
Other nackages	Spreadsheet word	Word processing Data	Word processing Data	Word processing Data
passages	processing	Dictionary Query	Dictionary Quary	Dictionary Over
	processing	Corean Destar	Server Destructional Server Se	Concernence De States
	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Screen Design	Screen Design	Screen Design
PRICING & AVAILABILITY				1
Basic system configuration and price	DesignPro turnkey	CPU, 256KB memory,	CPU, 256KB memory,	CPU, 512KB memory,
	CAD/D system, color,	17MB disk, 1.2MB disk-	18MB Winchester, 14.5MB	67MB fixed disk, 13MB
	10MB Winchester, 1.2MB	ette, video display	cartridge tape drive	removable disk video
	floppy Digitizer	terminal_\$9 995	video display terminal	display terminal 12
	hoppy, Digitzer,			alet sheet a for one
	sonware			siot chassis\$34,800
		\$120	\$130	\$296
Mo. maintenance of basic configuration			April 1984	September 1983
Mo. maintenance of basic configuration Date of first delivery	January 1983	April 1984		1 .
Mo. maintenance of basic configuration Date of first delivery Number installed to date	January 1983 300	April 1984	_	
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are	Disk canacities are	Disk canacities are
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are	Disk capacities are	Disk capacities are
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are formatted	Disk capacities are formatted.	Disk capacities are formatted.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are formatted	Disk capacities are formatted.	Disk capacities are formatted.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are formatted	Disk capacities are formatted.	— Disk capacities are formatted.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are formatted	Disk capacities are formatted.	— Disk capacities are formatted.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are formatted	Disk capacities are formatted.	— Disk capacities are formatted.
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	January 1983 300	April 1984 — Disk capacities are formatted	Disk capacities are formatted.	— Disk capacities are formatted.

MANUFACTURER AND MODEL	Texas Instruments, Inc. Business System 671A, 672A	Texas Instruments, Inc Business System 690A, 691A	Texas Instruments, Inc. Business System 861A/B	Texas Instruments, Inc Business System 872A/B
WORD LENGTH	16 bit	16 bit	16 -bit	16 bit
MAIN MEMORY	512KB-2MB	512KB-2MB	512KB-2MB	512KB-2MB
DISK STORAGE CAPACITY	18MB-43MB	138MB-425MB	80MB	43MB
NO. WORKSTATIONS SUPPORTED	16	40	40	40
PRICE RANGE	l—	\$42,950-\$54,950	\$45,600-\$46,200	\$38,300
TARGET MARKET	Business	Business	Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	TI 990/10A	TI 990/10A	TI 990/12	TI 990/12
Hardware floating point	Opt.	None	Single/double	Single/double
Battery backup	None	Opt.	Opt.	Opt.
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds	200	200	220	220
MAIN STORAGE				
Bytes fetched per cycle	2	2	2	2
Memory access	27M bits/sec.	27M bits/sec.	73M bits/sec.	73M bits/sec.
Cycle/access time, nanoseconds		_		
Storage protection	Std. ECC	Std. ECC	Std. ECC	Std. ECC
Increment size, bytes	256K,512K,1M,1.5M,2M	256K.512K.1M.1.5M.2M	256K, 512K, 768K, 1M	256K, 512K, 768K, 1M
Cache memory, bytes	4K	4K	4K	4K
INPUT/OUTPUT CONTROL				
No. of I/O channels	12	12	10	10
Data transfer rate	3MB/second	3MB/second	3MB/second	3MB/second
COMMUNICATIONS	1			
Max number of lines	40	40	40	40
Synchronous	Opt 19 2K bos	Opt 19 2K bos	Opt 50-19 2K bps	Opt 50-19 2K bps
Asynchronous	Std 9 6K bne Ont 19 2K	Std 9 6K hne Ont 10 2V	Std 50-10 2K bps	Std 50-10 2K bps
Protocols supported	SNA X 25 2790/2790	SNA X 25 3780/2700	SNA X 25 2790/2790	SNA X 25 2790/2790
Frotocols supported	SNA, A.25, 3780/2780	ISNA, A.25, 3780/2780	SNA, A.25, 3780/2780	SNA, A.25, 3780/2780
Type of LAN supported	Ethernet	Ethernet	Ethernet	Ethernet
BJE terminals emulated	3780/2780	3780/2780	3780/2780	3780/2780
IBM 3270 emulation	Ves	Ves	Ves	Ves
	163	163	103	165
Disks supported	Winchester: 18MB-43MB	Winchester: 138MB-425MB	Fixed: 67MP	Minchastor: A2MP
Disks supported	VVIIICIIester. 101VID-431VID	Winchester. 130/06-425/06	Pomovoble: 12MP	Remayables 12MP
Social printoro	150 000	150 000	150 and	1EQ and
Letter quality printers	35 ons	750 Cps	150 cps	
	135 Cps	200 600 lpm	300 600 lam	
Line printers	45 inc. 1000 hri	1500-600 ipm	1500-600 pm	
Reel-to-reel tape unives		145 lps, 1600 bpi	45 lps; 1600 bpi	45 lps; 1600 bpi
Streaming tape drives	None	100/50 lps; 1600/32000pi	None	INONE
Cassette/cartriage tape drives	14.5MB; 30 lps read			14.5MB, 30 ips read
Other perpherals supported	931 001	931 001	931 001	931 001
SOFTWARE				
Assembler	Assembler	Assembler	Assembler	Assembler
Compilers	Cobol. Basic. Fortran.	Cobol, Basic, Fortran,	Cobol, Basic, Fortran.	Cobol. Basic. Fortran.
Compilere	Pascal	Pascal	Pascal	Pascal
		A data a lata a		
Operating system	INIUITITASKING	INultitasking	Wultitasking	Wultitasking
Operating sys. Implemented in firmware	DDMC	DBMC	INO DRAG	
Database management system	DRIM2	DRIVIS	DRIVIS	DRM2
Principal industry application			1	
Other realized				
Other packages	Distignery	Distignery Over	Distigners Queres	Distingent Organization
	Sereen Design	Careen Design	Careen Design	Carean Design
	Screen Design	Screen Design	Screen Design	Screen Design
Basic system configuration and price	CPU, 512KB memory,	CPU, 512KB memory,	CPU, 512KB memory,	CPU, 512KB memory,
	13IVIB Winchester, 14.5IVIB	138IVIB Winchester, 91IVIB	67MB fixed disk, 13MB	43MB Winchester, 14.5MB
	cartridge tape drive,	streaming tape, video	removable disk, two	cartridge tape drive,
	video display terminal	display terminal, 13-	video display terminals,	two video display
	\$25,400	slot chassis42,950	13-slot chassis, 4-	terminals, 13-slot
			channel comm. board	chassis, 4-channel
	1	1	-45,600	comm. board—38,300
•• •••		0074	0.07	
Mo. maintenance of basic configuration	\$181	\$271	\$427	\$317
Date of first delivery	September 1983	August 1984	September 1983	September 1983
Number installed to date		1 <u></u>	-	
COMMENTS	Disk capacities are	Disk capacities are	Disk capacities are	Disk capacities are
	formatted.	formatted.	formatted. Fiber optics	formatted. Fiber optics
			optional.	optional.
	1	1		
	1		1	
		1		
	1	1	I Contraction of the second se	l

MANUFACTURER AND MODEL	Texas Instruments, Inc. Business System 890A/B, 891A/B	Tolerant Systems	The Ultimate Corp. Model 2000/2000S	The Ultimate Corp. Chiron
	16 bits	16/32 hits	16 bits	16 hite
		10/32 DIIS	12940 51240	DECKE 1024KE
	120MD 425MD		22MP 209MP (upformatted)	200AD 1200AD
	1301010-4251010		22	
NO. WORKSTATIONS SUPPORTED				
TARGET MARKET	354,950-364,550 Business	Business	Small Business	\$36,000-\$50,000 Business
CENTRAL PROCESSOR	TI 000 (12	NS 22000	DEC 10111/00	
CPU manufacturer and model	11 990/12	INS 32000	DEC LSI 11/23	Honeywell DPS6
Hardware floating point	Single/double	NS 32081	Single precision	Double
Battery backup	Opt.	Opt.	Opt.	Opt.
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds	220	—	165	300
MAIN STORAGE				
Bytes fetched per cycle	2	8	2	4
Memory access	73M bits/sec.	150	175	
Cycle/access time, nanoseconds		500	375	420/520
Storage protection	Std. ECC	Std.	Std.	Std.
Increment size, bytes	256K, 512K, 768K, 1M	1MB	128K	256K
Cache memory, bytes	4K	8KB	None	None
INPUT/OUTPUT CONTROL				
No. of I/O channels	10	Up to 30	None	
Data transfer rate	3MB/second	3MB/sec. each channel	NA	I
COMMUNICATIONS	'	,		
Max, number of lines	40	Up to 5400	32	32
Synchronous	Opt 50-19 2K bos	Un to 56K bos	Opt 19 2K bps	Ont
Asynchronous	Std 50-19 2K bps	Up to 19 2K bos	Std 9 6K bps	C t d
Asynchronous Destacele sum ented	SIU., 50-19.2K DPS		Stu., 9.0K bps	5.0.
Protocols supported	SNA, X.25, 3780/2780	Async TTT, IBM 3270 BSC	Asynch	-
-		& SNA/SDLC, X.25		
Type of LAN supported	Ethernet	Various	UltiNet (OSI)	UltiNet (OSI)
RJE terminals emulated	3780/2780	IBM 2780/3780	2780/3780	2780/3780
IBM 3270 emulation	Yes	Yes	No	No
PERIPHERAL EQUIPMENT				
Disks supported	Winchester: 138MB-425MB	Fixed: 84MB, 168MB, 536	Winchester: 33MB-308MB	—
Carial mintara	150 and	Verieue		190
		Various		
Letter quality printers	35 cps	Various	35-55 cps	35-55 cps
Line printers	300-600 lpm	Any Centronics printer	300-600 lpm	150-1000 lpm
Reel-to-reel tape drives	45 ips; 1600 bpi	1600/6250 bpi	None	45/175 ips
Streaming tape drives	100/50 ips; 1600/3200bpi		Start/stop; 25 ips	None
Cassette/cartridge tape drives	None		None	None
Other perpherals supported	931 VDT			None
SOFTWARE				
Assembler	Assembler	Yes	Macro	Macro
Compilers	Cobol, Basic, Fortran,	Cobol, Pascal, Fortran,	Basic, Recall	Basic, Recall
	Pascal	С		
Operating system	Multitasking	TX: Transactions	Multitasking	Multitasking
Operating system implemented in firmware	No	Partially	Fully	Fully
Database management system	DBMS	Oracle-compatible	Illtimate (Pick-generic)	Illtimate (Pick-generic)
Principal inductry application	DBINIS	Chacle-compatible	Various commercial and	Various commercial and
i incipar industry application	1			
Other packages	Word propaging Date			Dusiness applications
other packages	Distigner Output	Any Unix-compatible		Ultivora, UltiPiot,
	Carean Dasian		Onicaic, Oninet	Unicalc, Uninet
	Screen Design			
Basic system configuration and price	CPU, 512KB memory,	2 system building	Model 2000 CPU,	CPU, UltiWord, UltiPlot,
	138MB Winchester, 91MB	blocks, each w/4MB ECC	UltiWord, UltiPlot, 8-	5-slot chassis, 256KB
	streaming tape, two	memory, up to 2 3MB/sec	slot chassis, processor,	memory, streamer tape,
	video display terminals,	I/O channels, 2 high-	128KB memory, 33MB disk	40MB disk drive, high-
	13-slot chassis,	speed buses, 1 communi-	drive & controller, tape	performance processor
	4-channel comm. board	cation line, tape sub-	drive & controller. 7	(3X), 4 open ports-
	\$54,950	system w/controller-	open ports-\$35.000	\$36,000
	l .	\$154,000		,
Mo, maintenance of basic configuration	\$402	\$3.000	\$365	\$300
Date of first delivery	September 1983	First quarter 1984	January 1982	1984
Number installed to date			1180	1209
	Disk capacities are	A fault tolerant autom	1.00	1200
CONNIVIENTO	formatted Eiher antiac	that can be built an		
	normatted. Fiber optics			
	· · · · · · · · · · · · · · · · · · ·	1 to 15 building blocks.	1	
	optional.		1	1
	optional.			

MANU ACTORER AND WODEL	The Ultimate Corp. Model 2020	The Ultimate Corp. Model C/2	The Ultimate Corp. Model D/2	The Ultimate Corp. Model E/2
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	128KB-1024K	256K-2MB	256K-2MB	1MB-2MB
DISK STORAGE CAPACITY	33MB-308MB (unformatted)	80MB-2.3GB	80MB-2.3GB	80-2.3GB
NO. WORKSTATIONS SUPPORTED	32	252	252	252
PRICE RANGE	\$45,000-\$70,000	\$80,000-\$140,000	\$107,000-\$250,000	\$180,000-\$350,000
FARGET MARKET	Business	Business	Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	DEC LSI 11/23	Honeywell DPS 6	Honeywell DPS 6	Honeywell DPS 6
Hardware floating point	Single precision	Double	Double	Double
Battery backup	Opt.	Opt.	Opt.	Opt.
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds	165	300	300	300
MAIN STORAGE				
Bytes fetched per cycle	2	4	4	4
Memory access	175 ns.			
Cycle/access time, nanoseconds	375	420/520	420/520	420/520
Storage protection	Std	Std	Std	Std
Increment size bytes	128K	256K	256K	256K
Cache memory bytes	None	ak	AK	AK
NPLIT / OLITPLIT CONTROL	1.10110	1		1
No. of I/O channels	None	1024	1024	1024
Data transfor rate	Nono	16MP (200	16MP (005	1024
	INONE	I DIVIB/SEC.	IONB/SEC.	IDIVIB/SEC.
JUNICATIONS	22	0.50		0-0
Max. number of lines	32	252	252	252
Synchronous	Opt.; 19.2KB	Opt.	Opt.	Opt.
Asynchronous	Std., 9.6K bps	Std.	Std.	Std.
Protocols supported		2780/3780	2780/3780	2780/3780
Type of LAN supported	UltiNet (OSI)	UltiNet (OSI)	UltiNet (OSI)	UltiNet (OSI)
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	No	No	No	No
PERIPHERAL EQUIPMENT				
Disks supported	Winchester: 33-308MB	80MB-1GB	80MB-1GB	80MB-1GB
Serial printers	180 cps	180 cps	180 cps	180 CPS
Lotter quality printers	25.55 one	25 55 one	25 55 and	
	135-55 Cps	150 2000 law	35-55 cps	35-55 cps
Line printers	300-600 lpm	150-2000 ipm	150-2000 cpm	150-2000 lpm
Reel-to-reel tape drives	None	45//5 ips	45/75 ips	45/75 ips
Streaming tape drives	Start/stop; 25 ips	None	None	None
Cassette/cartridge tape drives Other perpherals supported	None	None	None	None
	Maara			
Assembler	Iviacro	Macro	Macro	Macro
Compilers	Basic, Recall	Basic, Recall	Basic, Recall	Basic, Recall
Operating system	Multitaching	Multitooking	B du lainn a luin a	Adulting at the se
Operating system				wuititasking
Detabase more service in firmware				
Database management system	Unimate (Mick-generic)	Unimate (Pick-generic)	Ultimate (Pick-generic)	Ultimate (Pick-generic)
rincipal industry application	various commercial and	various commercial and	various commercial and	Various commercial and
	business applications	business applications	business applications	business applications
Other packages	UltiWord, UltiPlot,	UltiWord, UltiPlot,	UltiWord, UltiPlot,	UltiWord, UltiPlot,
	UltiCalc, UltiNet	UltiCalc, UltiNet	UltiCalc, UltiNet	UltiCalc, UltiNet
		1	1	1
PRICING & AVAILABILITY				
Basic system configuration and price	Model 2020 CPU, Ulti-	DPS6, Ultiword, Ulti-	DPS6, UltiWord, Ulti-	DPS6, UltiWord, Ulti-
	Word, UltiPlot, LSI-11	plot, 10-slot chassis,	Plot, 10-slot chassis,	Plot, full control panel
	processor, 512KB memory	256KB memory, high-	512K memory, 288MB disk	20-slot chassis, two
	with dual ported peri-	performance processor	& controller, tape drive	cabinets 1MB memory
	pheral processor 33MB	(1X) tane controller	& controller—\$180.000	288MB dick & controller
	disk drive & controller	tape drive 80MB disk		tano drivo & controllor
	tane drive & controllor	8 open porte		
			1	
		1	CCE O	a
Mo maintenance of basis configuration	1/ printer ports	¢C10		121,030
Mo. maintenance of basic configuration	1 \$385	\$610	3050	
Mo. maintenance of basic configuration Date of first delivery	7 printer ports\$45,000 1\$385 1984	\$610 April 1979	April 1979	April 1979
Mo. maintenance of basic configuration Date of first delivery Number installed to date	7 printer ports—\$45,000 \$385 1984 1180	\$610 April 1979 1200+	April 1979 1200	April 1979 1200
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	1 \$385 1984 1180	\$610 April 1979 1200+	April 1979 1200	April 1979 1200
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	1 \$385 1884 1180	\$610 April 1979 1200+	April 1979 1200	April 1979 1200
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	1984 1180	\$610 April 1979 1200+	April 1979 1200	April 1979 1200
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	1 \$385 1984 1180	\$610 April 1979 1200+	April 1979 1200	April 1979 1200
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	1 \$385 1984 1180	\$610 April 1979 1200+	April 1979 1200	April 1979 1200
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	1 \$385 1984 1180	\$610 April 1979 1200+	April 1979 1200	April 1979 1200

MANUFACTURER AND MODEL	Wang Laboratories Inc. VS 15	Wang Laboratories Inc. VS 25	Wang Laboratories Inc. VS 45	Wicat Systems Inc. S160
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
	256KB-2MB	512KB-2MB	512KB-2MB	512KB-4 5MB
	22MP 2 6CP	34-76MB	34MB-2 5GB	10MB-474MB
DISK STURAGE CAPACITY	331VID-2.00D	10	34WB-2.5GB	
NO. WORKSTATIONS SUPPORTED	10	10	20	0-10
PRICE RANGE	\$13,500-\$108,000	\$25,000-\$40,500	\$26,000-\$61,000	\$37,000-\$50,000
TARGET MARKET	DDP, networked office	DDP, networked office	DDP, networked office	General Purpose
	auto., elec. comm.	auto., elec. comm.	auto., elec. comm.	•
CENTRAL PROCESSOR				
OPU	Description	Promission .	Bronzistowy	MC 69000
CPO manufacturer and model	Proprietary			
Hardware floating point	Double	Double	Double	Double
Battery backup	I—	—	—	None
Real-time clock or timer	Std.	Std.	Std.	Std.
CPU cycle time, nanoseconds	400	500	500	125
MAIN STORAGE				
Butes fetabad per avala				2
Bytes retched per cycle	-	-	—	2
Memory access	—	<u> </u>		-
Cycle/access time, nanoseconds		480	480	750
Storage protection	Std.	Std.	Std.	ECC
Increment size bytes	256K	256K	256K	512KB
Cache memory bytes	None	None	None	None
	Tione		110/10	
INPUT/OUTPUT CONTROL	1		_	
No. of I/O channels	I—	6	/	6-16
Data transfer rate	—		—	50-19.2K bps
COMMUNICATIONS	1			-
Max number of lines	4	68	68	16
	Ont & D. EK has	Opt : 0 6K hpc	Opt : 9 6K hpc	Ont : EGK has
Synchronous	Upt.; 9.0K Dps	Opt.; S.OK DPS	OPL., S.OK DPS	Opt., DOK DDS
Asynchronous	Upt.; 9.6K bps	Upt.; 9.6K bps	Upt.; 9.6K bps	Upt.; 19.2K bps
Protocols supported	2780/3780; 3274; 3277,	2780/3780; 3270; 3274,	2780/3780; 3270; 3274,	2780/3780, X.25
	TTY, SNA, general async	3777: TTY	3777; TTY	
Type of LAN supported	WangNet	WangNet	WangNet	Ethernet Arcnet
	2700/2700	2700/2700	2790/2790	2790/2790
RJE terminals emulated	2/80/3/80	2/00/3/00	2/00/3/00	2760/3760
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT	1			
Disks supported	Fixed: 33MB-147MB int. 75MB-640MB external.	Fixed: 34-76MB	Fixed/cartridge 90MB Removable: 75MB-288MB	Disk: 80MB-474MB,
Sorial printers	120-192 cps	120-192 cps	120-192 cps	200 cps
	120-132 Cps	120-152 Cps	20. 25	EE and
Letter quality printers	20, 55 cps	20, 35 cps	20, 35 cps	
Line printers	250-1100 lpm	250-1100 lpm	250-1100 lpm	300-1000 lpm
Reel-to-reel tape drives	30-75 ips	30-75ips	30-75 ips	25, 50; 100 ips
Streaming tape drives	None	None	None	25, 50; 100 ips
Cassette/cartridge tape drives	30 ins	30 ips	30 ins	30/60 ins
Other perphasels supported	Lasor printor cart dick	Laser printer 12ppm	Laser printer 12ppm	terminal with touch
Other perpherals supported		Laser printer 12ppin		
	9MB-14MB, diskette 360KB		Fixed disk: 640IVIB	panei
SOFTWARE				
Assembler	Assembler	Assembler	Assembler	Wicat Assembler, A68
Compilers	Cobol, Basic, Fortran, PL/1, RPG	Cobol, Basic, Fortran, PL/1, RPG	Cobol, Basic, Fortran, PL/1, RPG	APL, Basic, Cobol, Fortran, Pascal
Operating system	Bealtime	Real-time	Real-time	WMCS. Uniplis V
Operating system	No	No	No	None
Operating sys. implemented in innivale	Date VC DMC Tetal	VE DMC: Mana Tatal	VE DME: Mana Tatal	
Database management system	Pace, VS DIVIS Total	vs Divis; vvarig Total	VS DIVIS, Wang Total	Onny
Principal industry application	Accounting, pension,	Accounting, pension,	Accounting, pension,	Business, Scientific,
	personnel	personnel	personnel	Educational
Other packages	Modeling and simulation	Modeling and simulation	Modeling and simulation	
		3 • • • • • • •		
	1			
		CPU, 512KB memory, 34MB	CPU, 512KB memory, 34MB	CPU, 512KB memory, 6
Basic system configuration and price	CPU, 1024KB memory,			ports, 1 sync/async
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 51/4	disk, 1.2MB DSDD	disk, 1.2MB DSDD	
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two	disk, 1.2MB DSDD diskette drive, 16-port	disk, 1.2MB DSDD diskette drive, 32-port	port, 1 parallel port,
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge W/P	disk, 1.2MB DSDD diskette drive, 16-port serial device controller	disk, 1.2MB DSDD diskette drive, 32-port serial device controller	port, 1 parallel port, 80 MB disk_floating
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP	disk, 1.2MB DSDD diskette drive, 16-port serial device controller	disk, 1.2MB DSDD diskette drive, 32-port serial device controller	port, 1 parallel port, 80 MB disk, floating
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer,	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm	port, 1 parallel port, 80 MB disk, floating point, tape drive,
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system,
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port —29,150	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290
Basic system configuration and price	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290
Basic system configuration and price Mo. maintenance of basic configuration	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1994	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290
Basic system configuration and price Mo. maintenance of basic configuration Date of first delivery	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1984	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 June 1983
Basic system configuration and price Mo. maintenance of basic configuration Date of first delivery Number installed to date	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245°/\$217** June 1984	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982 —	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982 —	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 — June 1983 212
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1984 *Without remote	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982 —	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 June 1983 212 Up to 4 disk drives
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1984 *Without remote diagnostics	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982 —	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982 —	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 June 1983 212 Up to 4 disk drives per controller are
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1984 *Without remote diagnostics **With remote	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982 —	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982 —	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 June 1983 212 Up to 4 disk drives per controller are supported
Basic system configuration and price Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1984 *Without remote diagnostics **With remote diagnostics	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982 —	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 June 1983 212 Up to 4 disk drives per controller are supported.
Basic system configuration and price Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1984 *Without remote diagnostics **With remote diagnostics	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982 —	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982	por, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 June 1983 212 Up to 4 disk drives per controller are supported.
Basic system configuration and price Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS	CPU, 1024KB memory, 76MB fixed disk, 5¼ Winchester Drive, two 4230 tape cartridge WP software, one port 29,150 \$245*/\$217** June 1984 *Without remote diagnostics **With remote diagnostics	disk, 1.2MB DSDD diskette drive, 16-port serial device controller 250 lpm printer, Assembler, Operating system—\$34,000 \$238 July 1982 —	disk, 1.2MB DSDD diskette drive, 32-port serial device controller Assembler, 250lpm printer, Operating system—\$42,000 \$247 September 1982 —	port, 1 parallel port, 80 MB disk, floating point, tape drive, operating system, language—\$37,290 June 1983 212 Up to 4 disk drives per controller are supported.
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MANUFACTURER AND MODEL	Wicat Systems Inc. \$200	Wicat Systems Inc. S220	Wicat Systems Inc. S2220	
WORD LENGTH	16 bits	16 bits	16 bits	
MAIN MEMORY	512KB-5MB	512KB-12MB	512KB-12MB	
DISK STORAGE CAPACITY	80MB-474MB	80MB-474MB	80MB-474MB	ł
NO. WORKSTATIONS SUPPORTED	4-32	4-48	4-64	
PRICE RANGE	\$45,000-\$75,000	\$50,000-\$95,000	\$58,000-\$120,000	1
TARGET MARKET	General Purpose	General Purpose	General Purpose	
CENTRAL PROCESSOR				
CPU manufacturer and model	MC 68000	MC 68000	MC 68000	1
Hardware floating point	Double	Double	Double	
Rattory backup	None	Nono	None	4
Ball time clock or timer	Std	C+d	C+d	}
CPU cycle time, panoseconds	125	125	90	
	125	125	00	
Dutes fatabad and such	2			1
Bytes retched per cycle	2	2	Z	
Memory access	32	32	150	
Cycle/access time, nanoseconds	500	500	320	
Storage protection	Std.: parity, opt.: ECC	Std.: parity, opt.: ECC	Std.: parity, opt.: ECC	1
Increment size, bytes	512KB, 1MB	512KB, 1MB	1MB	
Cache memory, bytes	None	None	4KB	
INPUT/OUTPUT CONTROL				(
No. of I/O channels	4-32	4-48	64	1
Data transfer rate	50-19.2K bps	50-19.2K bps	50-19.2K bps	
COMMUNICATIONS	1	· ·	j .	
Max. number of lines	32	48	64	
Synchronous	Opt.: 56K bps	Opt.: 56K bps	Opt.: 56K bps	
Asynchronous	Opt : 19 2K bns	Opt 19 2K bps	Opt : 19 2K bos	
Protocols supported	2780/3780, X.25	2780/3780 X 25	2780/3780 X 25	
		2,00,0,00,0,00		
Type of LAN supported	Ethernet Arcnet	Ethernet Arcnet	Ethernet Arcnet	1
B IE terminals emulated	2780/3780	2780/3780	2780/3780	1
IBM 3270 emulation	2/00/0700 Voc	2/00/3/00	2700/3700	
	res	res	res	
Disks supported	Disk: 80MB-474MB	Disk 80MB-474MB	Disk SOMB-474MB	
Serial printers	200 cps	200 cps	200 cps	
Letter quality printers	55 cps	55 cps	55 cps	
Line printers	300-1000 lpm	300-1000 lpm	300-1000 lpm	1
Beel-to-reel tape drives	25 50: 100 ins	25 50: 100 ins	25 50: 100 ins	1
Streaming tape drives	25 50; 100 ips	25, 50; 100 ips	25, 50, 100 ips	ļ
Cassette/cartridge tape drives	30/60 ins	30/60 ins	30/60 inc	1
Other perpherals supported	torminal with touch	terminal with touch	torminal with touch	ſ
Other perpherals supported				
	paner	paner	panei]
Accomplex	Minet Assembles AGR			1
Assembler	ADL Desis Cabal	VVICat Assembler, A68	VVIcat Assembler, A68	ł
Compilers	Fortran, Pascal	APL, Basic, Cobol, Fortran, Pascal	APL, Basic, Cobol, Fortran, Pascal	
Operating system	WMCS, Uniplis V	WMCS, Uniplis V	WMCS, Uniplis V	
Operating sys. implemented in firmware	None	None	None	
Database management system	Unify	Unify	Unify	
Principal industry application	Business, Scientific,	Business, Scientific,	Business, Scientific,	(
	Educational	Educational	Educational	1
Other packages	-	-	—	
PRICING & AVAILABILITY			-	
Basic system configuration and price	CPU, 1MB memory, 1 sync/	CPU, 1MB memory, 1 sync	CPU, 1MB memory, 8	
	async port, 1 parallel	port, 8 ports, 1 par. a	ports, 1 parallel port,	1
	port, 80MB disk, float-	port, 80MB disk, float-	80 MB disk, floating	
	ing point tape drive.	ing point, tape drive,	point, tape drive.	
	operating system.	operating system.	operating system	
	language\$45,600	language-\$50.550	language-\$58,880	
			JJ- +0+,000	
ivio. maintenance of basic configuration			-	
Date of first delivery	August 1982	June 1984	October 1984	1
Number installed to date	180	50	13	}
COMMENTS	WMCS operating system	WMCS operating system	1]
	and one language are	and one language are		
	free on all Wicat	free on all Wicat	1	1
	systems	systems	1	
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			1	}
	1	1	1	
	1	1)	
	1	1	i i i i i i i i i i i i i i i i i i i	1