What is the future of 8- and 16-bit minicomputer systems? Well, it's evident they don't die easily. They are continuing to be squeezed from the low end by supermicrocomputers and from the high end by superminicomputers, but are still very much a part of the market. We are witnessing the rise of the next computer generation, and should be seeing the fall of the general-purpose 8- and 16-bit minicomputer systems. However, that has not happened *yet*. Not only are they still in existence, but still in demand for customers whose applications do not require the functionality or the speed of a 32-bit system, or the price tag that goes along with it. True, there are low-cost 32-bit supermicrocomputers that can beat the price of an 8- or 16-bit system, but dollar-for-dollar, the capabilities have to be weighed against the costs.

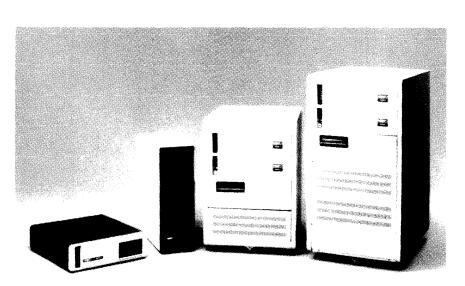
Although few new 8- and 16-bit vendors are entering the market, the existing manufacturers are not neglecting their present system families, and are continuing to introduce low-, mid-, and high-range systems. Of the 37 vendors listed in the comparison columns at the end of this report, 11 have introduced new systems. In addition, some vendors have enhanced their existing systems by increasing memory and providing additional capabilities, while in many cases, also decreasing prices.

One trend that stands out is that more and more minicomputer vendors are attempting to build totally compatible growth families, tying in personal computers or supermicrocomputers at the low-end, 8- and 16-bit systems in the mid-range, and 32-bit superminicomputers at the high-end. This enables a small company to start with a cost-effective computer, grow into the mid-range systems, and expand into the 32-bit superminicomputer systems with little or no software recompilation; a real asset and cost-saver to the user.

Vendors realize the necessity of this compatibility and those that provide this range of systems will be the successThe 8- and 16-bit minicomputers are still an important part of the medium-systems market, serving in a variety of roles. Vendors continue to introduce new systems at both the high and low ends and are putting more emphasis on system compatibility. High-growth areas for minicomputers are in the office automation and industrial environments. This report provides detailed comparison charts that present the salient characteristics of 126 minicomputers from 37 vendors. The report also discusses the current state of the minicomputer market, and provides both a guide to the chart entries and guidelines for selecting a minicomputer system.

ful ones. Honeywell is an example of a vendor presently offering this type of affinity among its systems with its DPS-6 family, offering micros, 16-bit systems, and 32-bit superminicomputer systems in the same system family with software portability up the line. Hewlett-Packard is working towards this end as well with the introduction of its RISC (reduced instruction set computer) architecture, allowing software portability from its 16-bit systems to its RISC high-end systems. IBM is also heading in this direction with its Series/1-PC and System/36-PC models.

Vendors are striving not only for compatibility among their own systems, but also with other vendors' systems as well in both software and communications areas. Because IBM is the big gun, vendors are interested in making their products, whether hardware or software, compatible with IBM. That is only the beginning, and future happenings will see vendors also attempting to be compatible with non-IBM vendors. At the communications end, we see more vendors offering IBM's SNA (Systems Network Architecture) protocols, and a definite interest in LU 6.2 (Logical



Point 4 Data Corporation offers a family of multiuser business systems. Shown from left to right is the Mark 2 entry-level system supporting up to seven users, the Mark 4 Tower system supporting up to 16 users, the Mark 5 mid-range system supporting up to 32 users, and the Mark 9 high-performance system supporting up to 64 users.

➤ Unit Type), known as program-to-program or peer-to-peer communications, allowing mainframes, minis, and micros to communicate on an equal basis with one another, bypassing the host.

We can see Unix as one solution in striving toward compatibility in the software arena, with more vendors introducing Unix-based operating systems alongside of their own proprietary operating systems. A sampling of systems that presently offer a Unix-based operating system include Digital Equipment Corporation's PDP-11 systems and IBM's high-end Series/1, with HP planning to introduce a Unix-based system on its HP-1000 Series later this year. Industry statistics show that there are somewhere in the range of 200,000 Unix systems installed in the U.S. today.

#### **DEFINING A MINICOMPUTER**

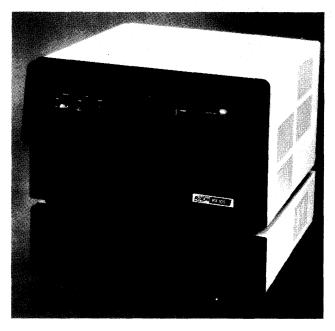
The microcomputer, with its increased power and performance, and the declining prices of the superminicomputer continue to threaten the existence of the minicomputer. And, even though the lines of definition are becoming more blurred as capabilities are extended, for the moment all three levels of systems are still needed. We can see it coming to the place where instead of attempting to define the systems as supermicros, minis, or superminis, the market will begin to use such definitive terms as small, intermediate, or large minicomputers, and the classification will be determined by number of users, speed, and other factors, as well as by word length. For the purposes of this report, however, the systems are distinguishable mainly by their word length, overall configurability, and price. The minicomputers listed in this report are characterized as follows:

- A word length of 8 or 16 bits
- A main memory capacity of less than 12 million bytes
- A purchase price for a stripped-down, entry-level system of around \$10,000
- A purchase price for a typical configuration of approximately \$25,000 and up

Information on 32-bit systems can be found in *All About Superminicomputers* in this section of DATAPRO 70.

#### **SELECTING A SYSTEM**

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 requirements will be, and whether the system will expand to meet these requirements. In case further expansion might be required, the system should be compatible with a



The Rexon RX105 computer includes an 80286-based processor and 80MB of disk storage, with an optional 54-inch diskette unit.

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 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/performance ratio

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 "new-comer" microcomputer vendor. Reliability was also high on the list of reasons for choosing one system over another.



Another reason users often chose one system over another was the compatibility of the user's existing software with the new system.

#### MINICOMPUTER ADVANTAGES

The 8- and 16-bit minicomputers still provide some definite advantages, although as the supermicrocomputers 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 supermicrocomputer as on a minicomputer, 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 some of the systems offer as high as 24 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. Minicomputers 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. Minicomputers can support hard disks to provide for disk storage capacities of several gigabytes.

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 for upgradability. In many cases, the original peripherals and software are portable to the larger system, protecting much of the user's investment. In addition, many minicomputer vendors, in order to hold their share of the market, are now also offering microcomputer systems that can either be used as standalone systems, or be connected to a minicomputer. It is definitely important to consider this issue of upgradability if a business is expected to grow substantially in the years ahead.

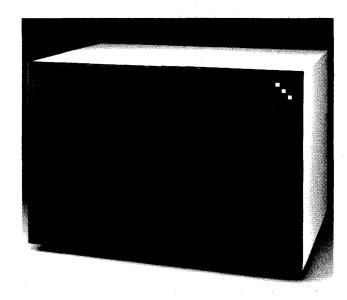
Minicomputers can also provide for extensive communications capabilities. Local Area Networks (LANs), which provide the capability to interconnect multiple devices within a company, expand the capabilities of a minicomputer beyond that of a single system. Many are calling the LAN concept the backbone to the office of the future, where individual offices in every company are interconnected for high-speed communication. However, others feel that LANs have not yet met their expectations and still have a lot of problems to be solved to become effective. Through the use of an effective 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. Many systems are adopting Xerox' Ethernet, and it is viewed as the de facto 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 minicomputers 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 superminicomputers.

Another important issue is that of data security. Most minicomputer systems provide a higher degree of data protection than microcomputers; however, realizing the importance of data security, vendors have considerably improved the security features of the microcomputers.

The software issue is a particularly important one. One of the strengths of the minicomputer is still software availability and compatibility in both systems and applications software for computer system families. More and more minicomputer vendors are realizing the importance of protecting their current users' investments by building this compatibility into their software. Minicomputer vendors that are beginning to offer micros are also offering software compatibility right up the line. Even though applications software is being developed for micro systems at a fast pace, its dependability has yet to be proven in many cases, and it does not yet equal the capabilities and 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 minicomputer vendors' systems. Through specific software programs, minicomputer 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 those vendors determine their particular market segments and strengths, the minicomputer will continue to dominate in vertical markets.

The existing software base of the 8- and 16-bit minicomputer is also helping it 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.



The MDS/Qantel System 78 is the high end of the family of multiuser, interactive business computers. A basic configuration includes 2 megabytes of main memory, a 4-channel, intelligent controller that manages a full network of intelligent video workstations and provides a communications link to other Qantel systems, a realtime clock, and a printer controller.

#### > THE MINICOMPUTER MARKET

Although the 8- and 16-bit minicomputers still maintain a firm toehold in the computer industry, carving out some new niches for itself, and taking on new roles, 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—the supermicrocomputer at the low end, and the superminicomputer at the high end. There's no doubt there will come a day when the 8- and 16-bit minicomputer will finally succumb, but it will not be for a few years yet. Vendors (and users) still like that stepping stone between the microcomputers and the superminicomputers that the 8- and 16-bit systems provide.

In order to stay competitive, minicomputer vendors will continue to reduce minicomputer prices, increase capabilities, and introduce new models. 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 8- and 16-bit minicomputers has decreased, but is still holding at a healthy level. For example, IBM sold more of its Series/1 systems last year than ever before. The high-growth areas for the minicomputer in the coming year will include the office automation and the industrial/factory automation environments.

We are watching technologies unfold that, while not necessarily new to the vendor's laboratories, are fairly new to the marketplace, such as the RISC architecture and parallel processing. Hewlett-Packard is growing its 16-bit, general-purpose systems, as well as its 32-bit engineering systems, into RISC architecture systems, which are to provide com-

plete software portability within each computer family. The first of these systems will be available before the end of 1986.

We will see more vendors utilizing the services of VARs (Value Added Resellers) than ever before to allow their systems to reach a worldwide market that would be impossible with the vendor's own sales force.

We will also see more enhancements to existing systems, such as increased memory, increased communications capabilities, and enhanced mass storage features.

Even with the enhancements, we will continue to see vendors lowering the price of their systems to gain a greater share of the market. One of IBM's directives for the Series/1 is to lower the price while continuing to expand the system. Hewlett-Packard has introduced the HP 3000 Model 70 to replace the Model 68, offering a 20 to 35 percent performance increase, but priced 20 percent lower. We are beginning to see the minicomputer 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 minicomputers 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. In addition, minicomputers are being produced as ruggedized industrial products that can be placed in any environment without special wiring or airconditioning.

The minicomputer 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.

Standardization and compatibility will be the emphasis of the future. A question in the user's mind is, will the technologies of the future be compatible with our present in-house system(s)? Standalone systems, whether a microcomputer, minicomputer, or whatever, are not good enough anymore—users want total compatibility right up the line.

Communications and software products must be flexible enough to coexist in environments with other vendors' equipment—being able to communicate with and access other systems. As mentioned earlier in the report, vendors will be striving for compatibility between their own systems as well as between their systems and other vendors. This is a vendor's dream (which sometimes becomes a nightmare) that has not yet materialized, although great strides have been made in that area. Many vendors have

➤ already introduced document interchange programs to convert documents produced by one vendor into readable documents for their own systems, such as Sperry, IBM, Wang, and Digital Equipment.

Where does all this leave the 8- and 16-bit systems? For the present, still on firm ground. Reasons are again: the cost of 8- and 16-bit systems versus those with new architectures will certainly be lower (for the present); there is a wider range of software available for the already-established 8and 16-bit systems than for the new architectures; there are always those diehards that prefer to stay with the old and familiar; and, as already mentioned, some companies just do not require the speed and functionality of 32-bit systems.

#### THE COMPARISON CHARTS

The key functional characteristics of 126 commercially available minicomputers from 37 vendors are presented in the accompanying comparison charts. 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.

The minicomputers listed in this report have an 8- or 16-bit word length. The 16-bit word length 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 8-bit systems are suitable for many functions where low cost is more important than high precision or sophisticated instruction repertoires.

#### **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, in some cases, 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 data to and/or receive it 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 interruption 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.

MIPS indicates how many millions of instructions the computer can execute per second.

#### **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 timesharing 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. Low-speed 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's 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 2,000 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.

Nonimpact printers can apply to a variety of printer types, including laser and thermal. The speed of these printers is normally expressed in pages per minute (ppm). This entry indicates the type and speed of the nonimpact printers available.

Reel-to-reel tape drives indicates the applicability and the speed in inches per second (ips) of tape drives that accommodate industry-standard ½-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, 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, procedure-oriented language into machine-language object programs. Compilers are now used in virtually all large- and medium-scale 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.

Operating system name indicates the name(s) of the operating systems offered by the vendor for a specific system or model. A number of vendors offer more than one operating system for their machines. (For example, a manufacturer might offer both a proprietary realtime system and a time-sharing, Unix-based operating system for the same minicomputer.)

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 timesharing 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 "timesharing," 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 could include CAD/CAE and power generation; principal applications for the commercial market could include transaction processing, distributed processing, office 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 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 February 1986.

#### **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.

#### **MANUFACTURERS**

Listed below, for your convenience in obtaining additional information, are the names, addresses, and telephone numbers of the 37 vendors whose products are listed in the comparison charts that follow.

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

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

BTI Computer Systems, Inc., 870 W. Maude Avenue, Sunnyvale, CA 94086. Telephone (408) 733-1122.

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

CalComp Incorporated, (formerly Terak Corp.) 14151 N. 76th Street, Scottsdale, AZ 85260. Telephone (602) 998-4800.

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

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

Computer Designed Systems, Inc., 10911 Olson Memorial Highway, 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 Drive, San Antonio, TX 78284. Telephone (512) 699-7000.

**Digital Equipment Corporation**, 146 Main Street, 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 Boulevard, Cupertino, CA 95014. Telephone (408) 255-0900.

GEAC Computers, Inc., 350 Steelcase Road West, Markham, Ontario 93R 1B3, Canada.

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

**Global Turnkey Systems, Inc.**, 4 North Street, Waldwick, NJ 07463. Telephone (201) 445-5050.

Hewlett-Packard Co., 10520 Ridgeview Court, Cupertino, CA 95014. Telephone (408) 865-6478.

Honeywell Information Systems, Inc., 200 Smith Street, Waltham, MA 02154. Telephone (617) 895-6000.

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

MAI/Basic Four Corporation, 14101 Myford Road, Tustin, CA 92680. Telephone (714) 731-5100.

McDonnell Douglas Computer Systems Co., 4000 MacArthur Boulevard, Newport Beach, CA 92660. Telephone (714) 250-1000.

MDS/Qantel Business Computers, 4142 Point Eden Way, Hayward, CA 94545. Telephone (415) 887-7777.

Modular Computer Systems, Inc. (MODCOMP), 1650 W. McNab Road, P.O. Box 6099, Ft. Lauderdale, FL 33310. Telephone (305) 974-1380.

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

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

Northern Telecom Systems Corp., 9705 Data Park, P.O. Box 1222, Minneapolis, MN 55440. Telephone (612) 932-8000.

Plessey Peripherals Systems, 17466 Daimler Avenue, Irvine, CA 92714. Telephone (714) 540-9945.

Point 4 Computer Corporation, 15442 Del Amo, Tustin, CA 92714. Telephone (714) 838-2225.

**PolyMorphic Systems**, 7334H Hollister Avenue, Goleta, CA 93117. Telephone (805) 685-6238.

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

Second Source Computers, Inc. (SSCI), 14712 Bentley Circle, Tustin, CA 92668. Telephone (714) 832-7724.

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

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

SyFa Data Systems Corp., 1800 Jay Ell Drive, P.O. Box 851077, Richardson, TX 75081. Telephone (214) 783-0993.

**Texas Instruments, Inc., P.O.** Box 809063, Dallas, TX 75380. Telephone (214) 995-6611.

The Ultimate Corp., 717 Ridgedale Avenue, East Hanover, NJ 07936. Telephone (201) 887-9222.

Wang Laboratories, Inc., 1 Industrial Avenue, Lowell, MA 01851. Telephone (617) 459-5000. □

MANUFACTURER AND MODEL	August Systems Inc. Series 330 Tri-Gard System	August Systems Inc. Series 330 TRI-DAC System	Barrister Information Systems Corporation Model 145	Barrister Information Systems Corporation Model 150
VORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	512KB-1MB	256KB-1MB	2048KB	1MB-2MB
DISK STORAGE CAPACITY		Not Required (*)	160MB-2400MB	50MB-400MB
	Not Required (*)			24
IO. WORKSTATIONS SUPPORTED	Not Applicable	4 or more Colorgraphic	32	_ :
PRICE RANGE PARGET MARKET	\$50,000 to \$200,000 Industrial control &	\$125,000-\$600,000 Industrial control &	\$153,900-\$300,000 Legal Industry	\$34,600-\$75,000 Legal Industry
	Safety shutdown	Critical Data Acquisition	,	
ENTRAL PROCESSOR CPU manufacturer and model	Intel 8086	Intel 8086	Data Gen. Super Eclipse	Barrister 150
	* * * * * * * * * * * * * * * * * * *		None	None
Hardware floating point	Yes, 8087	Yes, 8087	1	
Battery backup	Optional	Optional	Standard	Optional
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	500	500	150	400
MIPS			<u> </u>	<u> </u>
MAIN STORAGE	<b>.</b>	1	1	
Bytes fetched per cycle	2	2	2	2
Memory access, bits/sec.	32 bits/microsec.	32 bits/microsec.	16	16
Cycle/access time, nanoseconds	200	200	225	400
Storage protection	Optional, ECC	Optional, ECC	Standard	Standard
Increment size, bytes	512K	256K/512K	2048K	1024K
Cache memory, bytes	None	None	None	None
	HOUSE	THO I S	THOME	110116
NPUT/OUTPUT CONTROL	U- 4- 7000 District 10	AK Diniant 12K Austra	122	امر
No. of I/O channels	Up to 7000 Digital I/O	4K Digital, 12K Analog	32	24
Data transfer rate	50K bytes/sec.	50K bytes/sec.	2.2M bytes/sec.	2.5M bytes/sec.
COMMUNICATIONS	1 .		1	
Max. number of lines	40	40	8	8
Synchronous	Optional	Optional	Opt., 4K bps	Opt., 4K bps
Asynchronous	Opt., 38.4K bps	Opt., 38.4K bps/channel	Opt., 4K bps	Opt., 4K bps
Protocols supported	Modbus, TI, RS-232-C	Modbus, TI, RS-232-C	Bisync, programmable	Bisync, programmable
			Desire (Alex	B
Type of LAN supported	None	None	Barrister/Net	Barrister/Net
RJE terminals emulated	None	None	None	None
IBM 3270 emulation	No	No	Programmable	Programmable
ERIPHERAL EQUIPMENT			L	
Disks supported	Fixed: 20MB, 40MB	Fixed: 20MB, 40MB	Removable: 160MB-2400MB	Fixed/removable: 50MB-400MB
Serial printers	150 cps	150 cps	25-200 cps	25-200 cps
Letter-quality printers	None	None	25-40 cps, 12 ppm	25-40 cps, 12 ppm
	300 lpm	300 lpm	430-730 lpm	430-730 lpm
Line printers	300 pm	300 ipiii		Laser
Nonimpact printers	Na	None	Laser None	None
Reel-to-reel tape drives	None			
Streaming tape drives	None	None	None	None
Cassette/cartridge tape drives	None	None	None	None
Other peripherals supported	Diskette: 300KB	Diskette: 300KB	Optical character readers	Optical character readers
SOFTWARE			readers	readers
Assembler	ASM86	ASM86	Assembler, Trial	Assembler, Trial
Compilers	Fortran 77, PLM 86	Fortran 77, PLM 86	C-Compiler	C-Compiler
Compilers	TOTAL 77, TEN 60	Tortian 77, TEN 00	G-Compiler	C-compiler
Operating system name	<u>                                     </u>	_		
Operating system Operating system	Realtime, FT, proc. cont	Realtime, FT, Proc Contr	Barrister MBOS	Barrister MBOS
			Fully	Fully
Operating system implemented in firmware		Partially or fully		
Database management system	None	None	BIMS	BIMS
Principal industry application	Process, critical HVAC	Process safety shutdown,	Legal applications	Legal applications
	control, safety shutdown	crit. HVAC w/colorgraph.	1	l
Other packages	Modbus protocol, Data	Modbus protocol, Ladder,	Word processing, legal,	Word processing, legal,
	Base Builder, Ladder	database, & graphics	accounting, financial	accounting, financial
	Logic Builder	builder	modeling, info. mgmt.	modeling, info. mgmt.
PRICING & AVAILABILITY	1	1		
Basic system configuration and price	Triple CPUs, I/O nest,	Triple CPUS, I/O nest,	CPU, 2048KB Memory,	CPU, 1024KB Memory, 50
÷ • • • • • • • • • • • • • • • • • • •	16 DI, 1600 B&W program	16 DI, 16 DO, B&W	2-80MB disk, workstation	disk, workstation,
	station, Tri-Gard soft-	program station, color	modem, message printer,	modem, message printer,
	ware—\$50,000	control console, Tri-Dac	MBOS operating system,	MBOS operating system,
		software\$125,000	word processing—\$153,900	
	Optional	Optional	\$1,134	\$372
Mo. maintenance of basic configuration	November 1984	October 1984	March 1984	August 1983
Mo. maintenance of basic configuration  Date of first delivery		40 incl 15 of prev 300D	15	150
Date of first delivery			1.3	1.55
Date of first delivery Number installed to date	50 incl 25 of prev 300G			
Date of first delivery	50 incl 25 of prev 300G On-Line workstation not	Multiple units in star		
Date of first delivery Number installed to date	50 incl 25 of prev 300G On-Line workstation not typically implemented.	Multiple units in star network configuration		·
Date of first delivery Number installed to date	50 incl 25 of prev 300G On-Line workstation not typically implemented. (*) Disk not required	Multiple units in star network configuration with multiple color		
Date of first delivery Number installed to date	50 incl 25 of prev 300G On-Line workstation not typically implemented. (*) Disk not required for on-line control	Multiple units in star network configuration with multiple color graphic workstations		
Date of first delivery Number installed to date	50 incl 25 of prev 300G On-Line workstation not typically implemented. (*) Disk not required	Multiple units in star network configuration with multiple color		

MANUFACTURER AND MODEL	Barrister Information Systems Corporation Model 160	BTI Computer Systems BTI 6000	Burroughs Corp. B 90 Series	Burroughs Corp. B 900 Series
WORD LENGTH	16 bits	16 bits	8 bits	8 bits
MAIN MEMORY	1MB-2MB	128K-1MB	128KB-1.5MB	608KB-3.3MB
DISK STORAGE CAPACITY	160MB-2400MB	Up to 400MB	18MB-231MB	37MB-1.7GB
NO. WORKSTATIONS SUPPORTED	24	32	2-12	4-36
	1		1	
PRICE RANGE	\$69,900-\$175,000	From \$40,950	From \$14,000	From \$23,000
TARGET MARKET	Legal Industry	Business	Business/Commercial	Business/Commercial
CENTRAL PROCESSOR	Designation 100			
CPU manufacturer and model	Barrister 160	Proprietary	Proprietary	Proprietary
Hardware floating point	None	No	No	No
Battery backup	Optional	Standard	No	No
Realtime clock or timer	Standard	Standard	Optional	Standard
CPU cycle time, nanoseconds	400	<del></del>	<del>-</del>	<del> </del>
MIPS	l—	<del></del>	i—	<b> </b> —
MAIN STORAGE				
Bytes fetched per cycle	2	<u> </u>		<b> </b> _
Memory access, bits/sec.	16	_		
Cycle/access time, nanoseconds	400		250	210
Storage protection	Standard	None	Standard	Standard
Increment size, bytes	1024K	Not applicable	128K, 256K, 512K	128K
· · · · · · · · · · · · · · · · · · ·	None	Not applicable None		
Cache memory, bytes	INOTIE	HOUSE	None	None
NPUT/OUTPUT CONTROL	l.,	ļ_	10.44	
No. of I/O channels	24	5	6-11	_
Data transfer rate	2.5M bytes/sec.	<del> </del>	<u> </u>	_
COMMUNICATIONS	1		1	
Max. number of lines	8	32	2-5	4-18
Synchronous	Opt., 4K bps	No	Opt., 19.2K bps	Opt., 19.2K bps
Asynchronous	Opt., 4K bps	9.6K bps	Opt., 38.4K bps	Opt., 38.4K bps
Protocols supported	Bisync, programmable	2780/3780	2780/3780, BDLC, SNA,	2780/3780, SNA, BDLC
			X.25, 3270, RJE	SNA, X.25, 3270, BNA
Type of LAN supported	Barrister/Net	None	None	None
RJE terminals emulated	None	2780/3780	2780/3780	,
				2780/3780
IBM 3270 emulation	Programmable	No	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Removable: 160MB-2400MB	Fixed: 2MB-54MB	Cartridge: 4.6MB, 9.2MB	Fixed: 18MB-77MB
		Pack: 80MB-252MB	Fixed: 18MB-37MB	Pack: 65MB, 130MB
Serial printers	25-200 cps	20-120cps	180-230 cps	180-230 cps
Letter-quality printers	25-40 cps, 12 ppm	None	None	None
Line printers	430-730 lpm	300 lpm	85-600 lpm	160-1250 lpm
Nonimpact printers	Laser	_	_	<u> </u>
Reel-to-reel tape drives	None	45 ips	None	None
Streaming tape drives	None	None	25/100 ips	25/100 ips
Cassette/cartridge tape drives	None	10MB	10 ips cassette	10 ips cassette
Other peripherals supported	Optical character		Super mini disk: 6MB	Cartridge: 4.6-9.2MB,
other peripherale cuppertou	readers		Winchester: 9.6, 14.4MB	Mini disk, card readers
SOFTWARE	leaders		VVIIICHESTEL 5.0, 14.4IVID	IVIIII disk, card readers
	Assembles Trial	No		
Assembler	Assembler, Trial		0 1 1 000 440 11 4101	0 1 1 550 1151 1451 11
Compilers	C-Compiler	Basic	Cobol, RPG, MPL II, NDL	Cobol, RPG, NDL, MPL II
Operating system name	<b>—</b>			
Operating system	Barrister MBOS	Multitasking	Realtime, multitasking	Realtime, multitasking
Operating system implemented in firmware	Fully	Partially	Fully	Fully
Database management system	BIMS	l <b>—</b> •	None	None
Principal industry application	Legal applications	Accounting	General business	General business
Other packages	Word processing, legal,	<del>  -</del>	Mfg., hospital, educ.,	Mfg., hospital, educ.,
	accounting, financial		word management,	word Mgmt, Reporter,
	modeling, info. mgmt.		Reporter, Domain	Domain
PRICING & AVAILABILITY	]		'	1
Basic system configuration and price	CPU, 1024KB Memory,	CPU, tape cartridge,	B 96 with 512KB memory,	B930 with 4 processors,
type	2-80MB disk, workstation	27MB disk—\$40,950	40MB fixed disk, tape	two 256KB & two 64KB
	modem, message printer,	alak \$40,000	streamer, and controls—	memory modules, data
	MBOS operating system,		\$29,300	comm. I/O extender, tap
			Ψ23,300	
	word processing—\$69,900			streamer, 80MB fixed
				disk\$40,400
Mo maintenance of basic configuration	\$467	\$270 plus peripherals		_
Mo. maintenance of basic configuration	1 *	\$270 plus peripherals	<u></u>	
Date of first delivery	August 1983	1978	December 1979	August 1980
Number installed to date	140	3500	<del>-</del>	
COMMENTS		ľ	B 90 Series consists of	The B 900 Series
			5 models: B 91, B 92,	consists of 2 models:
	1		B 93, B 95 and B 96.	B920, B930.
	1			
	i ·		1	I
	1			1

MANUFACTURER AND MODEL	Burroughs Corp. B 1900 Series	CalComp Corporation 8510	CalComp Corporation 8600	Centurion Dealers Computer Corp. 6400/6500
VORD LENGTH	16 bits	16 bits	16 bits	8, 16 bits
MAIN MEMORY	131KB-2MB	128KB-512KB	128KB-512KB	128KB-512KB
DISK STORAGE CAPACITY	65MB-8GB	2MB-4MB	2MB-4MB	64MB-288MB
IO. WORKSTATIONS SUPPORTED	4-60	1	1	Up to 20
RICE RANGE	From \$62,000	\$12,000-\$40,000	\$18,000-\$50,000	\$28,000-\$33,000
ARGET MARKET	Business/Commercial	Technical	Technical	Business
ENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Digital LSI-11/23	LSI-11/23, Intel 8086	Centurion CPU6
Hardware floating point	No	Standard	Standard	No .
Battery backup	No	None	None	None
Realtime clock or timer	Optional	Standard	Standard	Standard
CPU cycle time, nanoseconds	67/250	600	600	200
MIPS	<del>-</del>		-	<b> </b>
IAIN STORAGE			_	
Bytes fetched per cycle		2	2	1
Memory access, bits/sec.		16	16	8
Cycle/access time, nanoseconds	300-500	600	600	800
Storage protection	Standard	None	None	Standard
Increment size, bytes	131K, 262K, 524K, 1M	64K	64K	128K
Cache memory, bytes	8K-16K	None	None	None
IPUT/OUTPUT CONTROL	45	1.	1.	22
No. of I/O channels	15	1	200 h. 4 (	32
Data transfer rate		2M bytes/sec.	2M bytes/sec.	19.2K bytes/sec.
OMMUNICATIONS	0.22			١.
Max. number of lines	8-32	8	8	1
Synchronous	Opt., 19.2K bps	None	None	No Cod O CK have
Asynchronous	Opt., 50K bps	4 Std./4 Opt., 19.2K bps	4 Std./4 opt., 19.2K bps	Std., 9.6K bps
Protocols supported	2780/3780, X.25, BDLC,	Async	Async	XModem
Type of LAN supported	BNA, SNA, 3270	None	None	None
Type of LAN supported RJE terminals emulated	None 2780/3780	None None	None	None 3780
BM 3270 emulation	Yes	No	None No	No
ERIPHERAL EQUIPMENT	169	140	INO	NO
	Pack: 65MB, 130MB	Winchester: to 40MB;	Winchester: to 40MB;	64MB-96MB
Disks supported	Fixed: 402MB-1608MB	Floppy: 1.2MB	1	CHIND-2011D
Social printers			Floppy: 1.2MB	120 one 150 and
Serial printers	None	120 cps	120cps	120 cps-150 cps
Letter-quality printers	None	None	None	45 cps
Line printers	270-2000 lpm	None	None	None
Nonimpact printers		None	<del> </del>	1000 b-:
Reel-to-reel tape drives	50 ips; 1600 bpi	None	None	1600 bpi
Streaming tape drives	25/100 ips		None	55 ips 40MB
Cassette/cartridge tape drives	10 ips cassette	None	None	40IVIB
Other peripherals supported	Card equipment	640x480 mono graphics-	640x480 mono graphics-	
OETMADE		2 planes	6 planes	
OFTWARE		Assembler	Assembler	Accombion
Assembler Compilers	Cohol Fortran Bank	Assembler Fortran, Pascal, Basic,		Assembler
Compilers	Cobol, Fortran, Basic, RPG, NDL, Pascal	C Pascal, Basic,	Fortran, Pascal, Basic, C	Basic, CPL
Operating system name	_	RT-11, Venix, UCSD Pasc.	RT-11, Venix, UCSD Pasc.	CFAS
Operating system name	Realtime, multitasking			Realtime, multitasking
Operating system implemented in firmware		No	No	None
Database management system	DMS II	None	None	None
Principal industry application	Business	CAD/D-mechanical/	CAD/D-mechanical/	Financial
b-, manage t all business.		technical	technical	
Other packages	Mfg., banking, educ.,	Spreadsheet, word	Spreadsheet, word	Service industry,
	distribution	processing	processing	accounting, inventory
RICING & AVAILABILITY				
Basic system configuration and price	B1990-SP with 512KB	DesignPro turnkey	DesignPro turnkey	
	memory, 4 comm. inter-	CAD/D system, mono,	CAD/D system, color,	
	faces, Maintenace Access	10MB Winchester, 1.2MB	10MB Winchester, 1.2MB	
	Processor and ET1100	floppy, Digitizer,	floppy, Digitizer,	
	workstation—\$59,300	software—\$27,400	software—\$39,000	
Mo. maintenance of basic configuration				\$440/\$400
Date of first delivery	1980	January 1983	January 1983	October 1979
Number installed to date		500	300	
OMMENTS	6 models: B 1905, B 1915	1500	300	130/40 6400—cabinet model
CIVILLIAIO	B 1955, B 1985, B 1990-			6500—desk model
	SP, B 1990-DP.	1		OSSO TESK ITIOUEI
	SI, D 1000-DF.			

MAIN MEMORY DISK STORAGE CAPACITY AIO. WORKSTATIONS SUPPORTED PRICE RANGE TARGET MARKET  ENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS MAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes NPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate COMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported  Type of LAN supported RJE terminals emulated IBM 3270 emulation PERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Nonimpact printers Reel-to-reel tape drives CASSETTE/ARE ASSEMBLER	8, 16 bits 512KB-16MB 35MB-4GB Up to 32 \$20,000-\$75,000 Business  Centurion CPU7 No None Standard 184-333 ——  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None No	16 bits 256KB-4MB Up to 140MB 10 \$10,000-\$25,000 Technical, business  DEC LSI 11/73 Double Optional Optional None — 4 1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported DECnet	16 bits 64KB-512KB 23MB-288MB 8 \$20,000-\$100,000 Business/Manufacturing/ Distribution  Proprietary Single Optional Standard 200 2.6 4 64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard All IBM	16 bits 64KB-1MB 23MB-800MB 24 \$50,000-\$250,000 Business, Manufacturing, Distribution  Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
MAIN MEMORY DISK STORAGE CAPACITY DIO. WORKSTATIONS SUPPORTED PRICE RANGE PARGET MARKET  EENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS MAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes NPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate COMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported  Type of LAN supported RJE terminals emulated IBM 3270 emulation PERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Nonimpact printers Reel-to-reel tape drives CASSETTUARE ASSEMBLER	512KB-16MB 35MB-4GB Up to 32 \$20,000-\$75,000 Business  Centurion CPU7 No None Standard 184-333	256KB-4MB Up to 140MB 10 \$10,000-\$25,000 Technical, business  DEC LSI 11/73 Double Optional Optional None —  4 1.2M 400/240 Standard 256K 8K  4 512K bytes/sec.  32 Optional Standard Any DEC supported	64KB-512KB 23MB-288MB 8 \$20,000-\$100,000 Business/Manufacturing/ Distribution  Proprietary Single Optional Standard 200 2.6 4 64 100 Optional 32K None 8 256K bytes/sec.  12 Optional Standard	64KB-1MB 23MB-800MB 24 \$50,000-\$250,000 Business, Manufacturing, Distribution  Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
ISK STORAGE CAPACITY IO. WORKSTATIONS SUPPORTED RICE RANGE ARGET MARKET  ENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS IAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	35MB-4GB Up to 32 \$20,000-\$75,000 Business  Centurion CPU7 No None Standard 184-333 —  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	Up to 140MB 10 \$10,000-\$25,000 Technical, business  DEC LSI 11/73 Double Optional Optional None — 4 1.2M 400/240 Standard 256K 8K  4 512K bytes/sec. 32 Optional Standard Any DEC supported	23MB-288MB 8 \$20,000-\$100,000 Business/Manufacturing/ Distribution  Proprietary Single Optional Standard 200 2.6 4 64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	23MB-800MB 24 \$50,000-\$250,000 Business, Manufacturing, Distribution  Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
O. WORKSTATIONS SUPPORTED RICE RANGE ARGET MARKET  ENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS HAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Letter-quality printers Letter-quality printers Letter-quality printers Streaming tape drives Cassette/cartridge tape drives OTTWARE Assembler	Up to 32 \$20,000-\$75,000 Business  Centurion CPU7 No None Standard 184-333 ——————————————————————————————————	10 \$10,000-\$25,000 Technical, business  DEC LSI 11/73 Double Optional Optional None  4 1.2M 400/240 Standard 256K 8K  4 512K bytes/sec.  32 Optional Standard Any DEC supported	8 \$20,000-\$100,000 Business/Manufacturing/ Distribution  Proprietary Single Optional Standard 200 2.6  4 64 100 Optional 32K None 8 256K bytes/sec.  12 Optional Standard	24 \$50,000-\$250,000 Business, Manufacturing, Distribution  Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
RICE RANGE ARGET MARKET  ENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS IAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Asynchronous Asynchronous Asynchronous CType of LAN supported DIE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Letter-quality printers Letter-quality printers Letter-creel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	\$20,000-\$75,000 Business  Centurion CPU7 No None Standard 184-333 —  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	\$10,000-\$25,000 Technical, business  DEC LSI 11/73 Double Optional Optional None  4 1.2M 400/240 Standard 256K 8K  4 512K bytes/sec.  32 Optional Standard Any DEC supported	\$20,000-\$100,000 Business/Manufacturing/ Distribution  Proprietary Single Optional Standard 200 2.6  4 64 100 Optional 32K None 8 256K bytes/sec.  12 Optional Standard	\$50,000-\$250,000 Business, Manufacturing, Distribution Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
ENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS MAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes PPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	Business  Centurion CPU7 No None Standard 184-333 ——————————————————————————————————	Technical, business  DEC LSI 11/73 Double Optional Optional None  4 1.2M 400/240 Standard 256K 8K  4 512K bytes/sec.  32 Optional Standard Any DEC supported	Business/Manufacturing/ Distribution  Proprietary Single Optional Standard 200 2.6  4 64 100 Optional 32K None 8 256K bytes/sec.  12 Optional Standard	Business, Manufacturing, Distribution  Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
ENTRAL PROCESSOR CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS MIPS MIPS MIPS Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes PPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	Centurion CPU7 No None Standard 184-333 —  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	DEC LSI 11/73 Double Optional Optional None  4 1.2M 400/240 Standard 256K 8K  4 512K bytes/sec.  32 Optional Standard Any DEC supported	Distribution  Proprietary Single Optional Standard 200 2.6  4 64 100 Optional 32K None 8 256K bytes/sec.  12 Optional Standard	Distribution  Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS IAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Asynchronous Asynchronous CIL terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Letter-quality printers Letter-quality printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	No None Standard 184-333 ——  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	Double Optional Optional None 4 1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	Distribution  Proprietary Single Optional Standard 200 2.6  4 64 100 Optional 32K None 8 256K bytes/sec.  12 Optional Standard	Distribution  Proprietary Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
CPU manufacturer and model Hardware floating point Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS IAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes VPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Other peripherals supported OFTWARE Assembler	No None Standard 184-333 ——  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	Double Optional Optional None 4 1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	Single Optional Standard 200 2.6 4 64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	Double Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
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Battery backup Realtime clock or timer CPU cycle time, nanoseconds MIPS IAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	None Standard 184-333 —  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	Optional Optional None  4 1.2M 400/240 Standard 256K 8K  4 512K bytes/sec.  32 Optional Standard Any DEC supported	Optional Standard 200 2.6 4 64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	Optional Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
Realtime clock or timer CPU cycle time, nanoseconds MIPS  AIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes PPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	Standard 184-333 —  1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	Optional None 4 1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	Standard 200 2.6 4 64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	Standard 100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
CPU cycle time, nanoseconds MIPS MIRS MINS TORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes VPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Asynchronous Asynchronous ASYNCHONE MING ALIONS MING SUPPORTE  Type of LAN supported MING 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	184-333	None 4 1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	200 2.6  4 64 100 Optional 32K None  8 256K bytes/sec.  12 Optional Standard	100 4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
MIPS  IAIN STORAGE  Bytes fetched per cycle  Memory access, bits/sec.  Cycle/access time, nanoseconds  Storage protection Increment size, bytes  Cache memory, bytes  IPUT/OUTPUT CONTROL No. of I/O channels  Data transfer rate  OMMUNICATIONS  Max. number of lines  Synchronous  Asynchronous  Protocols supported  Type of LAN supported  RJE terminals emulated  IBM 3270 emulation  ERIPHERAL EQUIPMENT  Disks supported  Serial printers  Letter-quality printers  Line printers  Nonimpact printers  Reel-to-reel tape drives  Other peripherals supported  OFTWARE  Assembler	1 24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	4 1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	2.6  4 64 100 Optional 32K None 8 256K bytes/sec.  12 Optional Standard	4.2 6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
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MAIN STORAGE Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes PUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	4 64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	6 64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
Bytes fetched per cycle Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
Memory access, bits/sec. Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes PUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	24 200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	1.2M 400/240 Standard 256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	64 100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	64 100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
Cycle/access time, nanoseconds Storage protection Increment size, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	200 Standard 512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	400/240 Standard 256K 8K  4 512K bytes/sec.  32 Optional Standard Any DEC supported	100 Optional 32K None 8 256K bytes/sec. 12 Optional Standard	100 Optional 64K 2K 16 512K bytes/sec. 24 Optional Standard
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Increment size, bytes Cache memory, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	512K None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None	256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	32K None 8 256K bytes/sec. 12 Optional Standard	64K 2K 16 512K bytes/sec. 24 Optional Standard
Increment size, bytes Cache memory, bytes Cache memory, bytes IPUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	256K 8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	None  8 256K bytes/sec.  12 Optional Standard	64K 2K 16 512K bytes/sec. 24 Optional Standard
Cache memory, bytes PUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Protocols supported Type of LAN supported RJE terminals emulated BM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Selet-to-reel tape drives Cassette/cartridge tape drives Other peripherals supported DFTWARE Assembler	None 32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	8K 4 512K bytes/sec. 32 Optional Standard Any DEC supported	None  8 256K bytes/sec.  12 Optional Standard	2K 16 512K bytes/sec. 24 Optional Standard
IPUT/OUTPUT CONTROL  No. of I/O channels  Data transfer rate  OMMUNICATIONS  Max. number of lines  Synchronous  Asynchronous  Asynchronous  Asynchronous  Asynchronous  Type of LAN supported  RUE terminals emulated  IBM 3270 emulation  ERIPHERAL EQUIPMENT  Disks supported  Serial printers  Letter-quality printers  Line printers  Nonimpact printers  Reel-to-reel tape drives  Cassette/cartridge tape drives  Other peripherals supported  OFTWARE  Assembler	32 38.4K bytes/sec. 8 No Std., 9.6K bps XModel None	4 512K bytes/sec. 32 Optional Standard Any DEC supported	8 256K bytes/sec. 12 Optional Standard	16 512K bytes/sec. 24 Optional Standard
No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Reel-to-reel tape drives Streaming tape drives Other peripherals supported OFTWARE Assembler	38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	512K bytes/sec. 32 Optional Standard Any DEC supported	256K bytes/sec.  12 Optional Standard	512K bytes/sec.  24 Optional Standard
Data transfer rate OMMUNICATIONS Max. number of lines Synchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported Serial printers Letter-quality printers Line printers Roel-to-reel tape drives Streaming tape drives Other peripherals supported OFTWARE Assembler	38.4K bytes/sec. 8 No Std., 9.6K bps XModel None None	512K bytes/sec. 32 Optional Standard Any DEC supported	256K bytes/sec.  12 Optional Standard	512K bytes/sec.  24 Optional Standard
OMMUNICATIONS  Max. number of lines  Synchronous  Asynchronous  Protocols supported  Type of LAN supported  RJE terminals emulated  IBM 3270 emulation  ERIPHERAL EQUIPMENT  Disks supported  Serial printers  Letter-quality printers  Line printers  Nonimpact printers  Reel-to-reel tape drives  Streaming tape drives  Other peripherals supported  OFTWARE  Assembler	8 No Std., 9.6K bps XModel None None	32 Optional Standard Any DEC supported	12 Optional Standard	24 Optional Standard
OMMUNICATIONS  Max. number of lines  Synchronous  Asynchronous  Protocols supported  Type of LAN supported  RJE terminals emulated  IBM 3270 emulation  ERIPHERAL EQUIPMENT  Disks supported  Serial printers  Letter-quality printers  Line printers  Nonimpact printers  Reel-to-reel tape drives  Streaming tape drives  Other peripherals supported  OFTWARE  Assembler	8 No Std., 9.6K bps XModel None None	Optional Standard Any DEC supported	12 Optional Standard	24 Optional Standard
Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	No Std., 9.6K bps XModel None None	Optional Standard Any DEC supported	Optional Standard	Optional Standard
Synchronous Asynchronous Asynchronous Protocols supported Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	No Std., 9.6K bps XModel None None	Optional Standard Any DEC supported	Optional Standard	Optional Standard
Asynchronous Protocols supported  Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Other peripherals supported  OFTWARE Assembler	Std., 9.6K bps XModel None None	Standard Any DEC supported	Standard	Standard
Protocols supported  Type of LAN supported  RJE terminals emulated  BM 3270 emulation  ERIPHERAL EQUIPMENT  Disks supported  Serial printers  Letter-quality printers  Line printers  Nonimpact printers  Reel-to-reel tape drives  Streaming tape drives  Other peripherals supported  OFTWARE  Assembler	XModel  None  None	Any DEC supported		
Type of LAN supported RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	None None	, , , , , ,	All IBM	
RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	None	DECnet	i .	All IBM
RJE terminals emulated IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	None	DECnet		
IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler			None	
IBM 3270 emulation ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler		VT100	None	2780/3780
ERIPHERAL EQUIPMENT Disks supported  Serial printers Letter-quality printers Line printers Sonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	110	No	No	Yes
Disks supported  Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler		1	1.10	103
Serial printers Letter-quality printers Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler	F 4. OFMS 54555	E	D	la
Letter-quality printers Line printers Sine printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	Fixed: 35MB-515MB	Fixed: 10-140MB	Pack: 32MB-96MB	Pack: 32MB-96MB
Letter-quality printers Line printers Solution printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler				Fixed: 80MB-300MB
Letter-quality printers Line printers Solominate printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	120 cps-150 cps	50-100 cps	20-350 cps	20-350 cps
Line printers  Nonimpact printers  Reel-to-reel tape drives  Streaming tape drives  Cassette/cartridge tape drives  Other peripherals supported  OFTWARE  Assembler	45 cps	· · · · · · · · · · · · · · · · · · ·	20-250 cps	20-250 cps
Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported COFTWARE Assembler	300 lpm-600 lpm	<u> </u>	300/600/1200 lpm	300/600/1200 lpm
Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler		-	300/800/1200 ipin	300/600/1200 ipin
Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	None	I—	<del>   </del>	I <i>-</i>
Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler	None	I—	800/1600 bpi	800/1600 bpi
Other peripherals supported  OFTWARE Assembler	55 ips/40MB	<b> </b>	Optional	None
Other peripherals supported  SOFTWARE Assembler	40MB-60MB		Optional	None
OFTWARE Assembler	TOTAL CONTE		Optional	Teorie
Assembler				
Assembler				
1				1
Compilers	Centurion Assembler,	Macro	No	Yes
	CPL, Cobol	Fortran, Basic, Pascal,	Abol	Abol, Cobol, Basic,
		Cobol	· · · · ·	Fortran, Pascal, RPG
		Copoi		ortian, Fascal, MPG
				İ
	ZBOS	I—	<del>-</del>	<u> </u>
Operating system	Realtime, multitasking	Multitasking	Realtime, multitask, batch	Realtime, multitask, batch
Operating system implemented in firmware		Fully	Partially	Partially
	None	Various	Advisor +	Advisor +
, ,	Financial	· ·		
i imorpai industry application	rindiiCidi	Manufacturing	Manufacturing, distribu-	Manufacturing, fixed
		1	tion	assets, distribution
Other packages S	Service industry,	Accounting	Medical, construction,	Medical, construction,
la	accounting, inventory		fixed assets	
	control		1	
RICING & AVAILABILITY				
		COLL AND	CAVD 4 CTT CCT-	CDLL 100YD
Basic system configuration and price -		CPU, 4MB memory,	64KB memory, 1 CRT, 23MB	
		terminal, 200MB	disk, 300 lpm printer	2 CRTs, 80MB disk,
		Winchester, 2MB floppy	\$30,000	300 lpm printer\$80,0
		and RSX11-M software—		1
		\$20,000		l
		Ψ20,000		
İ				
Mo. maintenance of basic configuration		Contact vendor	\$300	\$750
_ (	May 1985			·
	May 1985	Jan. 83	1975	1977
	100		1	
OMMENTS E		1	1	
	Bit-slice Mini imple-			l
	Bit-slice Mini imple-	i .		l
1'	Bit-slice Mini imple- mented in IEEE-796		i	
	Bit-slice Mini imple-		i	İ
	Bit-slice Mini imple- mented in IEEE-796			
	Bit-slice Mini imple- mented in IEEE-796			

MANUFACTURER AND MODEL	Computer Designed Systems Adviser 900	Computer Extension Systems, Inc. OMNIPAC	Datapoint Corp. Starport 1600	Datapoint Corp. 8400
WORD LENGTH	16 bits	12 bits	16 bits	16 bits
MAIN MEMORY	512KB-6MB	8KB-1MB	512KB	512KB-1MB
DISK STORAGE CAPACITY	800MB-4.2GB	10MB-240MB	1.2MB-60MB	130MB
NO. WORKSTATIONS SUPPORTED	64	16	17	8
PRICE RANGE	\$100,000-\$500,000	\$15,000-\$28,000	\$5,995	\$7,500-\$15,000
TARGET MARKET	Business, Manufacturing,	Business	Business/Office Auto-	Business/Office Auto-
	Distribution		mation (entry level sys)	mation
CENTRAL PROCESSOR	<u>_</u> .			
CPU manufacturer and model	Proprietary	Proprietary	Intel 80286	Intel 80286
Hardware floating point	Double	None	None	<del></del>
Battery backup	Optional	None	None	
Realtime clock or timer	Standard	Standard	-	
CPU cycle time, nanoseconds	100	980	375	<del>-</del>
MIPS	8.6	<del>-</del>	<u> </u>	
MAIN STORAGE				
Bytes fetched per cycle	6	2	<b> -</b> -	
Memory access, bits/sec.	64	15	<b> </b>	_
Cycle/access time, nanoseconds	100	980	375	
Storage protection	Optional	None		<b>I</b>
Increment size, bytes	64K	8K	512K	<u> </u>
Cache memory, bytes	4K	None	None	
NPUT/OUTPUT CONTROL	l			
No. of I/O channels	32	32	I	<u> </u>
Data transfer rate	512K bytes/sec.	1M word/sec.	<b> </b>	<u> </u>
COMMUNICATIONS	0 . 2. N Dy 103/330.			
Max. number of lines	64	32	I	1
Synchronous	Optional	Optional		
	Standard		_	-
Asynchronous		Optional	_	0700/0700 0070 0
Protocols supported	All IBM	<del>-</del>	-	2780/3780, 3270, Data-
T as of LANC and and		DEG .	ABO N	poll, DSSLAVE, Multilink
Type of LAN supported	None	DECnet	ARC Network	Datapoint ARC Network
RJE terminals emulated	3780		<b></b>	<del></del>
IBM 3270 emulation	Yes	No		No
PERIPHERAL EQUIPMENT			<u>                                     </u>	
Disks supported	Fixed: 80MB-600MB	Winchester: 120MB	Fixed: 20MB, 40MB	Fixed: 40MB
			Diskette: 1.2MB	Cartridge: 10MB-20MB
Serial printers	20-350 cps	120 cps	160 cps	120-300 cps
Letter-quality printers	20-250 cps	40 cps	35 cps	35-80 cps
Line printers	300/600/1200 lpm	300 lpm	<u> </u>	300-600 lpm
Nonimpact printers			_	Laser
Reel-to-reel tape drives	800/1600 bpi	None	<u> </u>	None
Streaming tape drives	None	None	60MB	None
Cassette/cartridge tape drives	None	None	i—	10MB-20MB
Other peripherals supported		Diskette		_
SOFTWARE				
Assembler	Yes	PAL	None	_
Compilers	Abol, Cobol, Basic,	Dibol, Pascal, Basic,	GW Basic, Databus	Databus
	Fortran, Pascal, RPG	WPS8, Fortran IV	1	
		•		
Operating system name		<del></del>	MS-DOS	
Operating system	Realtime, multitask, batch	Multiprocessing	Multitasking	Multitasking
Operating system implemented in firmware		No	<u> </u>	
Database management system	Advisor +	None	None	None
Principal industry application	Manufacturing,	Office automation	Office automation	Office automation
	distribution			
Other packages	Medical, construction,		Full line of application	Full line of applica-
puonuguo	fixed assets		packages	tion packages
			,	
PRICING & AVAILABILITY			1	1
Basic system configuration and price	CPU, 128KB memory, 2CRTs	CPU, 40MB disk, 128KB	CPU, 512K memory,	CPU, 512K memory,
Table by otom comigaration and price	80MB disk, 300 lpm	word memory—\$15,000	1 serial port,	10MB cartridge disk,
	printer—\$150,000	Word momery \$10,000	1 parallel port, 14"	40MB fixed disk, Arc
	printer ==		monitor, 1.2MB diskette,	network interface
	1		20MB disk, MS-DOS, GW	-\$20,000
			Basic, User Diag.—	1
	1		\$5,995	
	امر مود	la		10007
Mo. maintenance of basic configuration	\$1,025	Contact vendor	\$530	\$207
these of fine delines.	1977	1980	1981	August 1983
Date of first delivery		200	500	<u> </u>
Number installed to date		Supports all DEC	*36,780 workstations	
		Supports all DEC		1
Number installed to date		compatible peripherals.	supported with local	supported with local
Number installed to date			supported with local area network	supported with local area network
Number installed to date			1	1 ''
Number installed to date			1	1 ''
Number installed to date			1	1

MANUFACTURER AND MODEL	Datapoint Corp. 8600	Datapoint Corp. 8850	Digital Equipment Corp. PDP-11/23-Plus	Digital Equipment Corp. PDP-11/24
VORD LENGTH	16 bits	16 bits	16 bits	10 hin
AAIN MEMORY	128KB-1MB	512KB-4MB	256KB-4MB	16 bits
			1	1MB-4MB
ISK STORAGE CAPACITY	180MB	512KB-over 2 bil. bytes	20.8MB-41.6MB	20.8MB-36GB
IO. WORKSTATIONS SUPPORTED	24	24	10 active	10 active
RICE RANGE	\$7,500-\$15,000	\$16,500-\$59,950	From \$6,690	From \$11,000
ARGET MARKET	Business/Office Auto- mation	Business/Office Auto- mation	Business/technical	Business/technical
ENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
lardware floating point	<b> </b>	None	Optional	Standard
Battery backup	<u> </u>	None	No	Optional
Realtime clock or timer		Standard	Standard	Standard
CPU cycle time, nanoseconds	<u> </u>	1_		1_
MIPS	1—	_		<u> </u>
IAIN STORAGE				
Bytes fetched per cycle	<u> </u>	4	2	2
Memory access, bits/sec.	i	<u> </u>		1
Cycle/access time, nanoseconds	-		560	510
	<u> </u>	-		1 - · -
Storage protection		E12K	Standard	Standard
ncrement size, bytes		512K	256KB, 512KB	1M
Cache memory, bytes	<u> </u>	1MB	None	None
IPUT/OUTPUT CONTROL	1			
No. of I/O channels	<b> </b>	8	14	9
Data transfer rate		1.2M bytes/sec.	<b> -</b>	<b> </b>
OMMUNICATIONS			İ	
Max. number of lines	2	13	2	
Synchronous		Opt., 40.8K bps	Opt., 1M bps	Opt., 1M bps
Asynchronous	<u> </u>		Opt., 9.6K bps	Opt., 9.6K bps
Protocols supported	2780/3780, 3270, Data-	2780/3780 HASP	DDCMP, DNA, X.25, HASP,	DDCMP, DNA, X.25, HA
Totooolo dapportoa	poll, DSSLAVE, Multilink	Datapoli, 3278	SNA, 200UT, Univax 1004	SNA, 200 UT, Univac 10
Type of LAN supported		ARC*		1
Type of LAN supported	Datapoint ARC Network		DECnet, Ethernet	DECnet, Ethernet
RJE terminals emulated	2780/3780, Hasp	2780/3780	2780/3780	2780/3780
BM 3270 emulation	Yes	Yes	Yes	Yes
ERIPHERAL EQUIPMENT	i			
Disks supported	Fixed: 10MB-60MB Removable: 10MB-20MB	Fixed: 266MB Removable: 67MB	Winchester: 10MB-41.6MB Cartridge: 5.2MB-41MB	Winchester: 121KB-456l Pack: 205MB, floppy
Serial printers	120-300 cps	35-160 cps	30-600 cps	30-600 cps
Letter-quality printers	35-80 cps	35 cps	30 cps	30-000 cps
Line printers	300-1000 lpm	300-600 lpm	300-1200 lpm	300-1200 lpm
•		Laser		
Nonimpact printers	Laser		Laser: 8/12 ppm	Laser: 8/12 ppm
Reel-to-reel tape drives	25 ips	25 ips	24 ips; 1600 bpi	45 ips; 800/1600 bpi
Streaming tape drives	None	None	None	25/100 ips; 40MB
Cassette/cartridge tape drives	10MB-20MB	20MB	60MB cassette	30 ips; 800 bpi
Other peripherals supported	Diskettes DS-DD 8MB	Color business graphics		Card readers
OFTWARE				
Assembler		SNAP3 Macro	Assembler and macro	Assembler and macro
Compilers	Basic, RPB, Cobol,	Basic PLS, Fortran,	Cobol, Fortran, Basic,	Cobol, Fortran, Basic,
	Databus	Databus, Datashare,	Coral, Pascal, Dibol	Coral, Dibol
	Databus	Cobol, RPG Plus, Chain	Corai, Fascai, Dipoi	Coral, Diboi
Operating aveters		Copol, APG Plus, Chain	S S	
Operating system name	las un au	1 II	See Comments below	See Comments below
Operating system	Multitasking	Multitasking	Batch, realtime	Realtime, multitasking
Operating system implemented in firmware		I <del></del>	No	No
Database management system	None	None	None	None
Principal industry application	Office automation	Office automation		
Other packages	Full line of applica-	Full line of application	Graphics, Datatrieve,	Graphics, Datatrieve,
	tion packages	packages	word processing	word processing
	' -	I T	'	
RICING & AVAILABILITY				1
Basic system configuration and price	CPU, 256K memory,	CPU, 512K memory,	PDP-11/23-Plus with	PDP 11/24 CPU, power
-, sgeresen and price	10MB cartridge disk,	202MB disk, console,	512KB memory, 2 disks	supply, 1MB memory, K
	40MB fixed disk, Arc	8 port serial interface,	and controllers—	PAX module, I/O con-
	network interface	2 peripheral processors	\$19,950	
			\$19,950	nection panel, CPU
	\$20,000	\$60,000		cabinet w/power control
				ler, mounting space for
				disk devices
		1.		\$14,000
Mo. maintenance of basic configuration	\$225	\$530	\$249	\$118
Date of first delivery	September 1981	1981	January 1982	March 1981
Number installed to date	<u> </u>	500		
OMMENTS		*36,780 workstations	Utilizes DEC's RSX-11M,	Utilizes DEC's RT-11,
	supported with local	supported with local	RSX-11M-Plus, RSTS/E,	RSX-11M, RSX-11S, RS7
	1 * *	1	CTS 300, DMS11, and	CTS-300, DSM-11,
	area network			COLUMN TO THE PROPERTY OF THE
	area network	area network		
	area network	area network	Ultrix-11	RSX-11M-Plus, and
	area network	area network		

MANUFACTURER AND MODEL	Digital Equipment Corp. PDP-11/44	Display Data Corp. in * sight	GEAC Computers Inc. 6000	GEAC Computers Inc
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	1MB-4MB	128KB	512KB-2MB	1MB-3MB
DISK STORAGE CAPACITY	20.8MB-3.6GB	15MB-192MB	2GB	4.8GB
NO. WORKSTATIONS SUPPORTED	48 active	16	30	100
PRICE RANGE	From \$29,300	From \$25,000	\$75,000+	\$114,000+
TARGET MARKET	Business/technical	Business	Business/Financial/ Library	Business/Financial/ Library
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Dist. Data Series 9000	Proprietary GEAC 250	Proprietary GEAC 250
Hardware floating point	Optional	None	Triple	Triple
Battery backup	Optional	None	Standard	Standard
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds		150	240	240
MIPS		_	0.5	0.7
MAIN STORAGE				
Bytes fetched per cycle	2	2	1—	<b>I</b> —
Memory access, bits/sec.	_		I	_
Cycle/access time, nanoseconds	490	450	320	320
Storage protection	Standard	None	Standard	Standard
Increment size, bytes	1M	128K	128K	128K
	18K	None	None	None
Cache memory, bytes	°``	TACILE	NOTIE	INOUG
NPUT/OUTPUT CONTROL	114	ام	2 15	2 10
No. of I/O channels	14	4	3-15	3-19
Data transfer rate	1M bytes/sec.	1M words/sec.		
COMMUNICATIONS			1	1
Max. number of lines	<del></del>	8	64	64
Synchronous	Opt., 1M bps	None	Std., up to 19.2 bps	Std., up to 19.2 bps
Asynchronous	Opt., 9.6K bps	Std., 9.6K bps	Std., up to 19.2 bps	Std., up to 19.2 bps
Protocols supported	DDCMP, DNA, X.25, HASP, SNA, 200 UT, Univac 1004	X3.28, 2780/3780, TTY	X.3.28, X.25	X.3.28, X.25, IBM 2780, 780/3270 bsc
Type of LAN supported	DECnet, Ethernet	Omninet	None	None
RJE terminals emulated	2780/3780	2780/3780	3780	3780
IBM 3270 emulation	Yes	No	No	No
PERIPHERAL EQUIPMENT	163	110	""	140
Disks supported	Winchester: 121MB-456MB Pack: 205MB	Fixed: 40MB-64MB (up to 3 per system)	Fixed: 160MB, 344MB	Fixed: 160MB, 344MB
Serial printers	30-600 cps	80-320 cps	400 lpm	400 lpm
Letter-quality printers	30-000 cps	55 cps	150 cps	150 cps
Line printers	300-1200 lpm	300 lpm	360-1000 lpm	360-1000 lpm
Nonimpact printers	Laser: 8/12 ppm	300 ipin	None	None
		N		1
Reel-to-reel tape drives	45/125 ips; 800/1600 bpi	None	100 ips; 1600 bpi	100 ips; 1600 bpi
Streaming tape drives	25/100 ips; 40MB	None	25 ips	25 ips
Cassette/cartridge tape drives	30 ips; 800 bpi	20MB-64MB; 30-90 ips	None	None
Other peripherals supported				
SOFTWARE				
Assembler	Assembler and macro	Macro	None	None
Compilers	Cobol, Basic, Fortran,	None	ZOPL, ABL (proprietary)	ZOPL, ABL (proprietary)
Compilers	Coral, Dibol, Pascal	140116	Basic, Pascal, C	Basic, Pascal, C
	Corai, Dibol, Fascal	1	Dasic, rastal, C	Dasic, Fascal, C
Operating quature na	San Cammonts halass	05 (80 6 0		
Operating system name	See Comments below	OS/80 6.0	B-lei leis 1	Darleina III.
Operating system	Batch, realtime	Realtime, multitasking	Realtime, multitasking	Realtime, multitasking
Operating system implemented in firmware		<del></del>	Partially	Partially
Database management system	None	in * Sight Dev. Sys.	None	None
Principal industry application		Auto dealer, route	Financial, library	Financial, library
		dist.	1	
Other packages	Graphics, Datatrieve	Truck dealer	1	
	word processing	l	1	1
	_			
PRICING & AVAILABILITY				
Basic system configuration and price	CPU with 1MB memory,	CPU, 128K memory,	2 CPUs, 512K memory,	4 CPUs, 1MB memory,
	power supply, I/O	30MB disk, 16 ports,	160MB disk, tape,	160MB disk, tape,
	connection panel, cabi-	CRT, printer—	8 ports—\$93,000	8 ports—\$133,000
	net w/ power controller,	\$25,000		
	mounting space for disk	10,000		
			1	
	storage devices—		1	1
	\$29,950	1	1	
	10405	0045	1	1
44	\$165	\$215		<del></del>
Mo. maintenance of basic configuration	June 1980	September 1986	November 1980	November 1978
Date of first delivery		I —	200	300
	<b> </b>		1	I
Date of first delivery Number installed to date	— Utilizes RT-11, RSX-11S,			
Date of first delivery Number installed to date				
Date of first delivery	RSX-11M, RSX-11M-Plus,			
Date of first delivery Number installed to date	RSX-11M, RSX-11M-Plus, RSTS/E, Ultrix-11,			
Date of first delivery Number installed to date	RSX-11M, RSX-11M-Plus, RSTS/E, Ultrix-11, DMS-11, and CTS-300			
Date of first delivery Number installed to date	RSX-11M, RSX-11M-Plus, RSTS/E, Ultrix-11,			

IANUFACTURER AND MODEL		i company and the company and		
DO 1 - 1 - 1 - 1 - 1	General Robotics MicroMainFrame	General Robotics Cobra	General Turnkey Systems Model MC-30	General Turnkey Systems Model 5000-6000
RD LENGTH	16 bits	16 bits	16 bits	16 bits
IN MEMORY		1		
	1MB-4MB	512KB-2MB	384KB	1024KB
K STORAGE CAPACITY	1MB-2GB	1MB-135MB	50MB-100MB	50MB-1200MB
WORKSTATIONS SUPPORTED	<del>  -</del> .	<del></del>	16	64
CE RANGE	\$5,000-\$20,000	\$3,000-\$10,000	\$25,000-\$35,000	\$18,000-\$58,000
IGET MARKET	Technical/Business	Technical/Business	Business	Business
TRAL PROCESSOR				
	Dinital KD L 11	Dining 111	INII	Data Canada
U manufacturer and model	Digital KDJ-11	Digital J-11	INI	Data General
rdware floating point	Single/double	Single/double	Double precision	Double precision
ttery backup	None	None	Standard	Standard
altime clock or timer	Optional	Standard	Standard	Standard
U cycle time, nanoseconds	120	120	375	400
PS	3.6	3.6	1	
N STORAGE	5.0	5.0		1
	10			
tes fetched per cycle	2	2	<del>-</del>	<del></del>
mory access, bits/sec.	<u>                                     </u>			I—
cle/access time, nanoseconds	150	150	<b> -</b>	<b> -</b>
prage protection	None	None	Standard	Standard
rement size, bytes	512K		<u> </u>	
che memory, bytes	4K	4K		1
JT/OUTPUT CONTROL	1	1	1	
	10.04	10.04	1	1
. of I/O channels	16-64	16-64	-	<u> </u>
ta transfer rate	19.2K bps	19.2K bps	<u> </u>	1—
MMUNICATIONS		1	1	1
x. number of lines	64	64	16	64
nchronous	I	I	I_	1—
ynchronous	Std., 19.2K bps	Std., 19.2K bps	Std., 9,600 bps	Std., 9,600 bps
otocols supported	RS-232-C	RS-232-C	RS-232-C	RS-232-C
nocois supported	n3-232-C	N3-232-C	N3-232-C	NS-232-C
	l		1	
pe of LAN supported	Ethernet, DECnet	Ethernet, DECnet	None	None
E terminals emulated	None	None	None	None
A 3270 emulation	No	No	No	No
PHERAL EQUIPMENT	1			
sks supported	1MB, 80MB	1MB, 135MB	Fixed; removable	Fixed: 50MB, 24MB
	l		1	Removable: 80MB, 300MI
rial printers	30-180 cps	30-180 cps	180 cps	180 cps
ter-quality printers	45 cps	45 cps	180 cps	180 cps
e printers	300-1500 lpm	300-1500 lpm	300-1000 lpm	300-1000 lpm
nimpact printers				
el-to-reel tape drives	<u> </u>		1600 bpi	1600 bpi
	00 :			
eaming tape drives	90 ips	_	None	None
ssette/cartridge_tape_drives	87,200 bytes/sec.;20-100		None	None
ner peripherals supported				[
T				Í
TWARE				
sembler	<del></del>	<u> </u>	Global	Global
mpilers	Cobol, Pascal, Basic,	Cobol, Pascal, Basic,	Basic	Basic
	Fortran, C	Fortran, C		
erating system name	See Comments below	See Comments below	Champ	Champ
erating system	Realtime, batch	Realtime, Batch	Realtime	Realtime
erating system implemented in firmwar		No.	Fully	Fully
tabase management system	None	None	Champ	Champ
ncipal industry application	RTFILE, RMS	FTFILE, RMS	Distribution	Distribution
	wholesale	1	1	1.
	Numerous	Numerous	Accounting, report	Accounting, report
ner packages	i		writer	writer
ner packages	•		i .	I
ner packages			i	
ner packages				1
CING & AVAILABILITY	CPU. 4MB memory. 16	Cobra single board	CPU. 384KB memory.	CPU, 128KB memory.
	CPU, 4MB memory, 16	Cobra single board	CPU, 384KB memory,	CPU, 128KB memory,
CING & AVAILABILITY	serial ports, 160MB SMD	mainframe supporting	50MB disk, CRT,	50MB disk, 3 CRTs,
CING & AVAILABILITY	serial ports, 160MB SMD disk, streaming	mainframe supporting 1 floppy drive, 1	50MB disk, CRT, 64 lpm printer—	50MB disk, 3 CRTs, 64 lpm printer—
CING & AVAILABILITY	serial ports, 160MB SMD disk, streaming cartridge tape—	mainframe supporting 1 floppy drive, 1 Winchester drive, 4	50MB disk, CRT,	50MB disk, 3 CRTs,
CING & AVAILABILITY	serial ports, 160MB SMD disk, streaming	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory—	50MB disk, CRT, 64 lpm printer—	50MB disk, 3 CRTs, 64 lpm printer—
CING & AVAILABILITY	serial ports, 160MB SMD disk, streaming cartridge tape—	mainframe supporting 1 floppy drive, 1 Winchester drive, 4	50MB disk, CRT, 64 lpm printer—	50MB disk, 3 CRTs, 64 lpm printer—
CING & AVAILABILITY	serial ports, 160MB SMD disk, streaming cartridge tape—	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory—	50MB disk, CRT, 64 lpm printer—	50MB disk, 3 CRTs, 64 lpm printer—
CING & AVAILABILITY	serial ports, 160MB SMD disk, streaming cartridge tape—	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory—	50MB disk, CRT, 64 lpm printer—	50MB disk, 3 CRTs, 64 lpm printer—
CING & AVAILABILITY sic system configuration and price	serial ports, 160MB SMD disk, streaming cartridge tape—	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory—	50MB disk, CRT, 64 lpm printer— \$33,050	50MB disk, 3 CRTs, 64 lpm printer— \$62,850
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration	serial ports, 160MB SMD disk, streaming cartridge tape—\$14,500 (in quantity)	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)	50MB disk, CRT, 64 lpm printer— \$33,050	50MB disk, 3 CRTs, 64 lpm printer— \$62,850
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  — March 1984	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  — March 1984	50MB disk, CRT, 64 lpm printer— \$33,050 \$303 January 1984	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery mber installed to date	serial ports, 160MB SMD disk, streaming cartridge tape—\$14,500 (in quantity)	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)	50MB disk, CRT, 64 lpm printer— \$33,050	50MB disk, 3 CRTs, 64 lpm printer— \$62,850
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  — March 1984 Over 700	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  — March 1984	50MB disk, CRT, 64 lpm printer— \$33,050 \$303 January 1984	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery mber installed to date	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  — March 1984 Over 700 Operating systems in-	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  March 1984 Over Single board mainframe.	50MB disk, CRT, 64 lpm printer— \$33,050 \$303 January 1984	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980 200
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery mber installed to date	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  — March 1984 Over 700 Operating systems include RT-11, TSX+, RSTS,	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  — March 1984 Over Single board mainframe. Operating systems in-	50MB disk, CRT, 64 lpm printer— \$33,050 \$303 January 1984	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980 200
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery mber installed to date	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  — March 1984 Over 700 Operating systems include RT-11, TSX+, RSTS, RSX11M/M+, Mumps, Unix	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  — March 1984 Over Single board mainframe. Operating systems include RT-11, TXS+, RSTS,	\$303 January 1984 40 RDD software included	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980 200
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery mber installed to date	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  March 1984 Over 700 Operating systems include RT-11, TSX+, RSTS, RSX11M/M+, Mumps, Unix Flexibility in system	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  — March 1984 Over Single board mainframe. Operating systems in-	\$303 January 1984 40 RDD software included	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980 200
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery mber installed to date	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  March 1984 Over 700 Operating systems include RT-11, TSX+, RSTS, RSX11M/M+, Mumps, Unix Flexibility in system configuration available,	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  — March 1984 Over Single board mainframe. Operating systems include RT-11, TXS+, RSTS,	\$303 January 1984 40 RDD software included	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980 200
CING & AVAILABILITY sic system configuration and price  b. maintenance of basic configuration te of first delivery mber installed to date	serial ports, 160MB SMD disk, streaming cartridge tape— \$14,500 (in quantity)  March 1984 Over 700 Operating systems include RT-11, TSX+, RSTS, RSX11M/M+, Mumps, Unix Flexibility in system	mainframe supporting 1 floppy drive, 1 Winchester drive, 4 SIO, 512KB memory— \$5,500 (in quantity)  — March 1984 Over Single board mainframe. Operating systems include RT-11, TXS+, RSTS,	\$303 January 1984 40 RDD software included	50MB disk, 3 CRTs, 64 lpm printer— \$62,850 \$481 January 1980 200

WORD LINEAR   WORD LINEAR					
	MANUFACTURER AND MODEL				Hewlett-Packard C HP 1000 Micro 29
				10.11	
2008 3.268   200				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
124	IAIN MEMORY	256KB-2MB	512KB-8MB	512KB-8MB	768KB-6MB
10	ISK STORAGE CAPACITY	28MR-20GB	20MB-3 2GB	20MB-3 2GB	20MR-3 2GR
### PARONE ### PARONE		*	The second secon	1	
Samither, Technical Scientifier, Technical Sc		400 750 400 750	1 = 1	1	
ENTRAL PROCESSOR CPU manufacturer and model CPU manufacturer and model CPU manufacturer and model CPU manufacturer and model CPU cycle time, manoeconds Standard Stan					
CPU manufacturer and model Hardware floating point all proprietary (Optional Optional	ARGET MARKET	Scientific/Technical	Scientific/Technical	Scientific/Technical	Scientific/Technical
CPU manufacturer and model Hardware floating point all proprietary (Optional Optional					
CPU manufacturer and model Hardware floating point all proprietary (Optional Optional	ENTRAL PROCESSOR		•		
Hardware floating point Bactery backup Realtime clock or stream CPU cycle time, nanoseconds None None None None None None None None		Proprietary	HP A600	HP A700	HP A900
Battery backup "Optional None None CPU cycle ime, nanoseconds 1.0 1.0 1.0 3.0 3.0 3.0 1.0 1.0 1.0 3.0 3.0 3.0 1.0 1.0 1.0 1.0 3.0 3.0 3.0 3.0 1.0 1.0 1.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3				1	1
None					
The content of the	Battery backup	Optional	Optional	Optional	Optional
The content of the	Realtime clock or timer	None	None	<del></del>	l
MIRS  I					
JAM STORAGE Wells effeched per cycle Memory access, bits/sec.  865/420  865/420  85 sandard 126K 126K 126K 126K 126K 126K 126K 126K		10	110	110	3.0
Bytes fatched per cycle Memory access, bitts/sec.  Cycle/a/caces time, nanoseconds Storage protection Standard		1.0	1.0	1.0	3.0
Memory access, bits/sec.  685/420 51andard 51zeK 128K 128K 128K 128K 128K 128K 128K 128	IAIN STORAGE		ł		1
Memory access, bits/sec.  685/420 51andard 51zeK 128K 128K 128K 128K 128K 128K 128K 128	Bytes fetched per cycle	2	2	12	14
Cycle/ Jaccess time, nanoseconds Storage protection Increment size, bytes Cache mamory, bytes I 28K I 128K				<u> </u>	I
Standard normanista, bytes 228K 128K 128K 128K 128K 128K 128K 128K		665 (430	454	EOO	1101
incerement size, bytes Cache memory, bytes PICT/OUTPUT CONTROL. None  9-14 9-14 9-14 9-14 9-14 9-14 9-14 9-1					
None   None					1
None   None	ncrement size, bytes	128K	128K	128K, 256K, 512K, 1M	768K, 1.5MB, 3MB
PUT/OUTPUT CONTROL  No. of I/O channels  Data transfer rate  900K bytes/sec.  90th, 57.2K bps 0pt, 5		. —			
No. of I/O channels  9-14  900K bytes/sec.  900t. 57.2K bps 0pt. 19.2K bps 0pt.		1		1	1
Date transfer rate Jobx bytes/sec. Jobx bytes/		ند وا	1.0	142	112
DMMUNICATIONS  Alax, number of lines  Opt., 9.6K bps Opt., 19.2K bps Opt., 19.					
DMMUNICATIONS  Alax, number of lines  Opt., 9.6K bps Opt., 19.2K bps Opt., 19.	Data transfer rate	900K bytes/sec.	900K bytes/sec.	4.27M bytes/sec.	900K bytes/sec.
Jas. number of lines		1		1 ' '	1 ' '
Opt., 9 6K bps Opt., 19 2K bps		<u> </u>		I	1
Asynchronous Copt., 19,2K bps X,25, HDLC, Blaync, RJE, MRJE, IEEE 802.3, IMF None 2780/3780 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380 2780/380		0.000	- F7 8'4 !	0 F7 6" !	0 57.0%
Protocols supported MRJE, IEEE 802.3, IMF None MRJE, IEEE 802.3, IMF None MRJE, IEEE 802.3, IMF None MRJE, IEEE 802.3, IMF None MRJE, IEEE 802.3, IMF None MRJE, IEEE 802.3, IMF None MRJE, IEEB 802.3, IMF None MRJE, IEB 802.3, IMF None					
retroctools supported MRLE IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEE 802.3, IMF None MRLE, IEEB 802.3, IMF None	Asynchronous	Opt., 19.2K bps	Opt., 19.2K bps	Opt., 19.2K bps	Opt., 19.2K bps
MRUE,   IEEE 802.3, IMF   None   2780/3780   2780/37	Protocols supported		X 25 HDLC bisync BJF	X 25 HDLC Bisync BJF	X 25 HDLC Bisync BJF
None   None	Totodolo Supportod				
Lift terminals emulated M3 3270 emulation Normalitation No		1	1	•	
Sem 3270 emulation RIPHERIAL EQUIPMENT Disks supported Removable: 50MB-404MB Removable:					
Fixed: 16MB-404MB Removable: 50MB-404MB Remo	RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780
Fixed: 16MB-404MB Removable: 50MB-404MB Remo	RM 3270 emulation	Yes	Yes	Yes	Yes
Disks supported Removable: 50MB-404MB Removable: 50MB-404MB 30-108 cps 40 cps 40 cps 250-1000 lpm Laser: 12 ppm La		1,00	1.00	1.55	1.55
Removable: 50MB-404MB 30-108 cps 30-108 cps 40 cps		F: 1 4014D 40414D	E: 1 4014D 404B	E: 1 4004D 40404D	E: 1 4014D 40414D
Serial printers Letter-quality printers A0 cps A1 cps A1 cps A1 cps A1 cps A1 cps A1 cps A1 cps A1 cps A1 cps A1 cps A1 cps A1 cps A250-1000 lpm A250-1000 l	Disks supported		l .		
Laster-quality printers in printers 250-1000 lpm 250-1000		Removable: 50MB-404MB	Removable: 50MB-404MB	Removable: 50MB-404MB	Removable: 50MB-404M
Letter-quality printers Line printers Line printers Line printers Scho-1000 lpm Laser: 12 ppm So0/1600 bpi None None None None None None None None	Serial printers	30-108 cps	30-108 cps	30-108 cps	30-108 cps
Line printers Nonimpact printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Streaming tape drives Other peripherals supported Diskettes, plotters, graphics tablet DFTWARE Assembler Compilers  Operating system name Operating system implemented in firmware Database management system Other packages  RICING & AVAILABILITY Basic system configuration Bisic configuration Assembler Other packages  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration OMMENTS  Diskettes, plotters, graphics tablet Diskettes, plotters, graphics tablet Diskettes, plotters, graphics tablet Diskettes, plotters, graphics tablet Diskettes, plotters, graphics tablet Diskettes, plotters, prachics Diskettes,					
Nonimpact printers Real-to-real tape drives Streaming tape drives Streaming tape drives Streaming tape drives Streaming tape drives Cassette/cartridge tape drives Obiskettes, plotters, graphics tablet Obiskettes, plotters, graphics tablet Obiskettes, plotters, graphics tablet Obiskettes, plotters, graphics tablet Oberating system Operating system implemented in firmware Database management system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date OMMENTS  Laser: 12 ppm B800/1800 bpi None None None Diskettes, plotters, graphics tablet Graphics tablet Obiskettes, plotters, graphics tablet Graphics Streaming tape drives S00/1600 bpi None None None None None None None None					
Reel-to-reel tape drives Streaming tape drives Cassettle/cartridge tape drives Cassettle/cartridge tape drives Cher peripherals supported Diskettes, plotters, graphics tablet OPERATION Compilers  Macro/1000 Basic, Fortran, Pascal  Deparating system name Operating system implemented in firmware Database management system Cher packages  REGING & AVAILABILITY Basic system configuration Date of first delivery None  Mone None None None None None None None N					
Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE Assembler OCOMPIERS OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OPERATION OFTWARE OPERATION OFTWARE OPERATION OFTWARE OPERATION OPERATION OFTWARE OPERATION OPERATION OFTWARE OPERATION OPERA	Nonimpact printers	Laser: 12 ppm	Laser: 12 ppm	Laser: 12 ppm	Laser: 12 ppm
Streaming tape drives Cassette/cartridge tape drives Other peripherals supported OFTWARE Assembler OFTWARE Assembler OCOmpilers  Macro/1000 Basic, Fortran, Pascal  None Diskettes, plotters, graphics tablet graphics tablet Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  None Diskettes, plotters, graphics tablet Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  None Diskettes, plotters, graphics tablet Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Nare-A Realtime Basic system implemented in firmware-Database management system Other packages  RICING & AVAILABILITY Basic system configuration and price  Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration Date of previpheral devices  Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Mo. maintenance of previpheral devices  None Diskettes, plotters, graphics tablet  Macro/1000  Macro/1000  Basic, Fortran, Pascal  REE-A Realtime Realtime Realtime Realtime Realtime Realtime Realtime Realtime CPU Image/1000 Manufacturing, engineering, measurement mfg., process control, graphics  Stram Macro/1000 Manufacturing, engineering, measurement mfg., process control, grap	Reel-to-reel tape drives	800/1600 bpi	800/1600 bpi	800/1600 bpi	800/1600 bpi
Cassette/cartridge tape drives Other peripherals supported Diskettes, plotters, graphics tablet Diskettes, plotters, graphics Diskettes, plotters, graphics Diskettes, plotters, graphics Diskettes, plotters, graphics Diskettes, plotters, graphics Diskettes, plotters, graphics Diskettes, ploters Diskettes, plotters, graphics Diskettes, ploters Diskettes, plotters, graphics Diskettes, ploters Diskettes, plotters, grap					
Other peripherals supported  OTHWARE Assembler OFTWARE Assembler OCOmpilers  Macro/1000 Basic, Fortran, Pascal  Operating system name Operating system implemented in firmware Database management system Other packages  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date OMMENTS  Mo. maintenance of basic configuration OMMENTS  Diskettes, plotters, graphics tablet  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, 512KB memory, operating system, 512KB memory, operating system, 512KB memory, operating system, 512KB memory, 512KB memory, 8 available 1/O channels— \$13, 100  Mo. maintenance of basic configuration  Mo. maintenance of basic configuration  Of first delivery Number installed to date  OMMENTS  Mo. supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Diskettes, plotters, graphics tablet  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000  Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, RTE-A operating system, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 512KB		1		1	
OFTWARE Assembler Compilers  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  RTE-A Realtime  ———————————————————————————————————					
Assembler Compilers  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  RTE-A Realtime    Image/1000   Manufacturing, engineering, measurement Mfg., process control, graphics  RICING & AVAILABILITY Basic system configuration and price  Bisic system configuration and price  E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750    Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 8TE-A Realtime   Image/1000	Other peripherals supported				
Assembler Compilers  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  Macro/1000 Basic, Fortran, Pascal  RTE-A Realtime		graphics tablet	graphics tablet	graphics tablet	graphics tablet
Assembler Compilers  Macro/1000 Basic, Fortran, Pascal  RTE-A Realtime  ———————————————————————————————————	DET\M/ΔRE	J* '	,	'	1 '
Basic, Fortran, Pascal  Basic, Fortan, Pascal  Basic, Fortran, Pascal  Basic, Fortran, Pascal  Basic, Fortran, Pascal  Basic, Fortran, Pascal  Basic, Fortan, Pascal  Basic, Fortan, Pascal  Basic, Fortan, Pascal  Basic, For		Manage /1000	Manage /1000	Manua /1000	Manua /1000
Operating system name Operating system implemented in firmware Database management system Other packages  Othe					
Departing system implemented in firmware Departing system implemented in firmware Departing system implemented in firmware Image/1000 Manufacturing, and interfaces and/or peripheral devices interfaces and/or peripheral devices in mage/1000 Manufacturing system implemented in firmware Image/1000 Manufacturing, process control, graphics  Realtime — Image/1000 Manufacturing, mage/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  Realtime — Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  Realtime — Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, RTE-A operating system, 10 I/O ports; \$10,000 System, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—\$13,100 System, 768KB ECC Memory, 7 available I/O channels—\$24,60 System, 512KB memory, 7 available I/O channels—\$13,100 System, 512KB memory, 7 available I/O channels—\$13,100 System, 512KB memory, 512KB memo	Compilers	Basic, Fortran, Pascal	Basic, Fortran, Pascal	Basic, Fortran, Pascal	Basic, Fortran, Pascal
Poperating system Departing seasurement Mfg. process control, graphics Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Departing system Dep		i			
Departing system implemented in firmware Departing system implemented in firmware Image/1000 Manufacturing, and price Departing system control, graphics  Bealtime Image/1000 Manufacturing, process control, graphics  Bealtime Image/1000 Manufacturing, process control, graphics  Bealtime Image/1000 Manufacturing, process control, graphics  Bealtime Image/1000 Manufacturing, process control, graphics  Bealtime Image/1000 Manufacturing, process control, graphics  Bealtime Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  Bealtime Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  Bealtime Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, RTE-A operating system, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—\$13,100  Mo. maintenance of basic configuration Date of first delivery Number installed to date DMMENTS  Mo. maintenance of basic configuration of communications interfaces and/or peripheral devices peripheral devices  Realtime Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, RTE-A operating system, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—\$13,100  Mo. maintenance of basic configuration August 1983 Not supplied  Mot supplied Maximum dependent on the specific combination of communications interfaces and/or peripheral devices peripheral devices peripheral devices			1	1	I
Departing system implemented in firmware Departing system implemented in firmware Departing system implemented in firmware Image/1000 Manufacturing, and interfaces and/or peripheral devices interfaces and/or peripheral devices in mage/1000 Manufacturing system implemented in firmware Image/1000 Manufacturing, process control, graphics  Realtime — Image/1000 Manufacturing, mage/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  Realtime — Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  Realtime — Image/1000 Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, RTE-A operating system, 10 I/O ports; \$10,000 System, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—\$13,100 System, 768KB ECC Memory, 7 available I/O channels—\$24,60 System, 512KB memory, 7 available I/O channels—\$13,100 System, 512KB memory, 7 available I/O channels—\$13,100 System, 512KB memory, 512KB memo	Danasian anasar	DTE 6 0 /04	DTE A	DTE A	DTE A
Departing system implemented in firmware — Image/1000 Manufacturing engineering, measurement manufacturing, process control, graphics  RICING & AVAILABILITY Basic system configuration and price  Who. maintenance of basic configuration Date of first delivery Number installed to date DMMENTS  Who. maintenance of basic combination of communications interfaces and/or peripheral devices  Date of first delivery Number installed to date DMMENTS  Date of first delivery Number installed to date DMMENTS  Date of peripheral devices  Date of first delivery Number installed to date DMMENTS  Date of peripheral devices  Date of first delivery Number installed to date DMMENTS  Date of peripheral devices  Date Date of first delivery Number installed to date DMMENTS  Date of peripheral devices  Date Date Date Date Date Date Date Date		1			
Image/1000   Manufacturing, engineering, measurement manufacturing, process control, graphics   Image/1000   Manufacturing, engineering, measurement manufacturing, process control, graphics   E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750   Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000   Series CPU, 256KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 7 available I/O channels— \$24,60   Series CPU, 256KB memory, 512KB memory, 8 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 7 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 7 available I/O channels— \$24,60   Series CPU, 256KB memory, 512KB memory, 8 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 7 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 8 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 8 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 256KB ECC memory, 9 available I/O channels— \$24,60   Series CPU, 2	Operating system	Realtime	Realtime	Healtime	Realtime
Database management system Principal industry application Principal industry Principal industr	Operating system implemented in firmware	<b>⊫</b>	<u> </u>	<del> </del>	1—
Manufacturing, engineering, measurement manufacturing, process control, graphics  RICING & AVAILABILITY Basic system configuration and price  E-Series CPU, 256KB memory, operating system, 10 I/O ports—\$23,750  Mo. maintenance of basic configuration Date of first delivery Number installed to date ODMMENTS  Manufacturing, engineering, measurement Mfg., process control, graphics  Manufacturing, engineering, measurement Mfg., process control, graphics  Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, 512KB memory, operating system, 10 I/O ports; \$10,000  \$155  December 1981  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Manufacturing, engineering, measurement Mfg., process control, graphics  CPU, RTE-A operating system, 512KB memory, 512KB memory, 512KB memory, 8 available I/O channels—\$24,60  *\$40 available I/O channels—\$24,60  *\$57  August 1983  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices			Image/1000	Image/1000	Image/1000
engineering, measurement manufacturing, process control, graphics  E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration and price \$155 December 1981 Not supplied "Maximum dependent on the specific combination of communications interfaces and/or peripheral devices \$100 peripheral devices \$100 peripheral devices \$100 perating, measurement Mfg., process control, graphics  engineering, measurement Mfg., process control, graphics  CPU, RTE-A operating system, 512KB memory, 512KB memory, 512KB memory, 7512KB	ŭ ,		1 0 7	1 0.	
manufacturing, process control, graphics  Mfg., process control, graphics  Mfg., process control, graphics  Mfg., process control, graphics  Mfg., process control, graphics  Mfg., process control, graphics  CPU, 512KB memory, operating system, 10 I/O ports; \$10,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Mfg., process control, graphics  CPU, 512KB memory, operating system, 10 I/O ports; \$10,000  \$155 December 1981 Not supplied  "Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Mfg., process control, graphics  CPU, RTE-A operating system, 758KB ECC memory, 512KB memory, 5	ттора тоози у аррпсацоп				
Control, graphics  Grup, RTE-A operating system, 768KB ECC memory, 512KB					
BICING & AVAILABILITY Basic system configuration and price  E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Most supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum devices  *Available I/O ports; \$10,000  CPU, RTE-A operating system, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—  *System, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—  *System, 768KB ECC **memory, 7 available I/O channels—  *Standard Parameters  *August 1983 **Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	Other packages	manufacturing, process	Mfg., process control,	Mfg., process control,	Mfg., process control,
BICING & AVAILABILITY Basic system configuration and price  E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Most supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum devices  *Available I/O ports; \$10,000  CPU, RTE-A operating system, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—  *System, 512KB memory, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels—  *System, 768KB ECC **memory, 7 available I/O channels—  *Standard Parameters  *August 1983 **Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	· -		1 0		
Basic system configuration and price  E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration altered first delivery sumber installed to date DMMENTS  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  E-Series CPU, 256KB memory, operating system, 10 I/O ports; \$10,000  CPU, 8TE-A operating system, 512KB memory, 512KB memory, 512KB memory, 7 available I/O channels— \$13,100  CPU, 8TE-A operating system, 768KB ECC memory, 7 available I/O channels— \$12,100  \$45  August 1983  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices		g.upinoo			~ -F
Basic system configuration and price  E-Series CPU, 256KB memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration Date of first delivery Number installed to date  DMMENTS  Most supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum devices  *Maximum devices  *Maximum devices  *Maximum devices  *Maximum devices  *Maximum devices  *CPU, 87E-A operating system, 512KB memory, 512KB memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 7 available system, 768KB ECC memory, 8 available I/O channels—\$24,60  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  **Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	NOW 0 0 41/4 11 4 DH :==:		1		ĺ
memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration Date of first delivery Number installed to date DMMENTS  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most maintenance of basic configuration \$155 December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most maintenance of basic configuration \$155 December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	KICING & AVAILABILITY	I	1		ĺ
memory, operating system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration Date of first delivery Number installed to date DMMENTS  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most maintenance of basic configuration \$155 December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most maintenance of basic configuration \$155 December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Most supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	Basic system configuration and price	E-Series CPU, 256KB	CPU, 512KB memory,	CPU, RTE-A operating	CPU, RTE-A operating
system, 10 I/O ports— \$23,750  Mo. maintenance of basic configuration Date of first delivery Aumber installed to date DMMENTS  System, 10 I/O ports; \$10,000  S13,100  S512KB memory, 8 available I/O channels— \$13,100  \$512KB memory, 8 available I/O channels— \$24,60  \$455 August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  S57 August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  S61 August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  S61 August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	- ,	memory, operating			
Mo. maintenance of basic configuration Date of first delivery Number installed to date DMMENTS  #85  December 1981 Not supplied Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  #85  August 1983 Not supplied Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  #85  August 1983 Not supplied Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  #85  August 1983 Not supplied Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  #85  August 1983 Not supplied Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  #85  August 1983 Not supplied  #84  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices					
Mo. maintenance of basic configuration Date of first delivery Number installed to date DMMENTS  Moment interfaces and/or peripheral devices  Moment interfaces and/or peripheral devices  Moment interfaces and/or peripheral devices  \$13,100  \$13,100  \$57 August 1983 August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  \$13,100  \$57 August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  \$13,100		ayatem, TO I/O ports	1/0 ports, \$10,000		
Mo. maintenance of basic configuration Date of first delivery Aumber installed to date DMMENTS  Standard of peripheral devices  Standard or peripheral devices		1400 750	1		1/U channels—\$24,600
Mo. maintenance of basic configuration Date of first delivery Aumber installed to date DMMENTS  Standard of peripheral devices  Standard or peripheral devices		\$23,750		1040 400	1
Date of first delivery Number installed to date  December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  December 1981 Not supplied  Not supplied  Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices		\$23,750	1	[\$13,100	1
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Date of first delivery Number installed to date  December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices		\$23,750		\$13,100	
Date of first delivery Number installed to date  December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices		\$23,750		\$13,100	
Date of first delivery Number installed to date  December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  December 1981 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  August 1983 Not supplied  Maximum dependent on the specific combination of communications interfaces and/or peripheral devices		\$23,750		\$13,100	
Number installed to date  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  Not supplied  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	Mo, maintenance of basic configuration		\$61		\$85
*Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices		\$155		\$57	
*Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices  *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	Date of first delivery	\$155 December 1981	August 1983	\$57 August 1983	August 1983
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peripheral devices peripheral devices peripheral devices peripheral devices	Date of first delivery Number installed to date	\$155 December 1981 Not supplied *Maximum dependent on the specific combination	August 1983 Not supplied *Maximum dependent on the specific combination	\$57 August 1983 Not supplied *Maximum dependent on the specific combination	August 1983 Not supplied *Maximum dependent on the specific combination
peripheral devices peripheral devices peripheral devices peripheral devices	Date of first delivery Number installed to date	\$155 December 1981 Not supplied *Maximum dependent on the specific combination	August 1983 Not supplied *Maximum dependent on the specific combination	\$57 August 1983 Not supplied *Maximum dependent on the specific combination	August 1983 Not supplied *Maximum dependent on the specific combination
	Date of first delivery Number installed to date	\$155 December 1981 Not supplied *Maximum dependent on the specific combination of communications	August 1983 Not supplied *Maximum dependent on the specific combination of communications	\$57 August 1983 Not supplied *Maximum dependent on the specific combination of communications	August 1983 Not supplied *Maximum dependent on the specific combination of communications
tanana tanana tanana tanana tanana	Date of first delivery Number installed to date	\$155 December 1981 Not supplied *Maximum dependent on the specific combination of communications interfaces and/or	August 1983 Not supplied "Maximum dependent on the specific combination of communications interfaces and/or	\$57 August 1983 Not supplied *Maximum dependent on the specific combination of communications interfaces and/or	August 1983 Not supplied "Maximum dependent on the specific combination of communications interfaces and/or
attached. attached. attached. attached.	Date of first delivery Number installed to date	\$155 December 1981 Not supplied *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	August 1983 Not supplied "Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	\$57 August 1983 Not supplied *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices	August 1983 Not supplied *Maximum dependent on the specific combination of communications interfaces and/or peripheral devices
attached. attached. attached. attached.	Date of first delivery Number installed to date	\$155 December 1981 Not supplied *Maximum dependent on the specific combination of communications	August 1983 Not supplied *Maximum dependent on the specific combination of communications	\$57 August 1983 Not supplied *Maximum dependent on the specific combination of communications	August 1983 Not supplied *Maximum dependent of the specific combination of communications

MANUFACTURER AND MODEL	Hewlett-Packard Co. HP 1000 Model 26	Hewlett-Packard Co. HP 1000 Model 27	Hewlett-Packard Co. HP 1000 Model 29	Hewlett-Packard HP 3000 Series 37
WORD LENGTH	16 hian	16 hisa	16 hisa	16 his-
	16 bits	16 bits	16 bits	16 bits
	512KB-8MB	512KB-8MB	768KB-24MB	512KB-2MB
DISK STORAGE CAPACITY	23,8MB-20GB	23.8MB-20GB	23.8MB-20GB	2.1GB
NO. WORKSTATIONS SUPPORTED	*24	*24	*24	32
PRICE RANGE	From \$16,000	From \$24,000	From \$34,000	From \$21,950
TARGET MARKET	Scientific/Technical	Scientific/Technical	Scientific/Technical	Business/Commercial
CENTRAL PROCESSOR			l	[
CPU manufacturer and model	HP A600+	HP A700	HP A900	Proprietary
Hardware floating point	No	Double	Double	Single extended prec.
Battery backup	Optional	Optional	Optional	Standard
Realtime clock or timer	<u> </u>	<u>  —                                     </u>	<u>                                     </u>	Standard
CPU cycle time, nanoseconds	_	l <u> </u>	l <u> </u>	
MIPS	1.0	1.0	3.0	<u>                                     </u>
MAIN STORAGE				
Bytes fetched per cycle	2	2	4	2
Memory access, bits/sec.		<u> </u>	<u>                                     </u>	
	454	500	181	170
Cycle/access time, nanoseconds				
Storage protection	Standard	Standard	Standard	Standard
Increment size, bytes	128K, 256K, 512K, 1M	128K, 256K, 512K, 1M	768K, 1.5M, 3M	512K
Cache memory, bytes	None	None	4K	None
INPUT/OUTPUT CONTROL				l.
No. of I/O channels	18	20	20	3
Data transfer rate	4.27M bytes/sec.	4.27M bytes/sec.	4.27M bytes/sec.	1M bytes/sec.
COMMUNICATIONS				
Max. number of lines	<del></del>	I—	I—	3
Synchronous	Opt., 57.2K bps	Opt., 57.2K bps	Opt., 57.2K bps	Std., 19.2K bps
Asynchronous	Opt., 19.2K bps	Opt., 19.2K bps	Opt., 19.2K bps	Opt., 9.6K bps
Protocols supported	X.25, HDLC, Bisync, RJE,	X.25, HDLC, Bisync, RJE,	2780/3780, X.25, HDLC	HDLC/SDLC, X.25, RS-422,
Trotocois supported	MRJE, IEEE 802.3, IMF	MRJE, IEEE 802.3, IMF	2700,0700, X.20, 11520	RS-232-C, CCITT V.24/.35
Type of LAN supported	None	None	None	LAN IEEE 802.3
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: 50MB-404MB
	Removable: 50MB-404MB	Removable: 50MB-404MB	Removable: 50MB-404MB	Removable: 404MB
Serial printers	30-108 cps	30-108 cps	30-108 cps	40-200 cps
Letter-quality printers	40 cps	40 cps	40 cps	40-45 cps
Line printers	250-1000 lpm	250-1000 lpm	250-1000 lpm	300-1200 lpm
Nonimpact printers	Laser: 12 ppm	Laser: 12 ppm	Laser: 12 ppm	Laser: 8-45 ppm
Reel-to-reel tape drives	800/1600 bpi	800/1600 bpi	800/1600 bpi	45 ips-75 ips
Streaming tape drives	None	None	None	1600/6250 bpi
Cassette/cartridge tape drives	None	None	None	10,000 bpi; 67MB
Other peripherals supported	Diskettes, plotters,	Diskettes, plotters,	Diskettes, plotters,	Diskettes; plotters
Other peripherale supported	graphics tablet	graphics tablet	graphics tablet	Diskottos, pietters
SOFTWARE	grapines tablet	grapines tablet	graphics tablet	
Assembler	Macro / 1000	Macro/1000	Macro/1000	ĺ
	Basic, Fortran, Pascal	Basic, Fortran, Pascal		Basia Cahal Basasi
Compilers	Basic, Fortran, Pascai	Basic, Fortran, Pascai	Basic, Fortran, Pascal	Basic, Cobol, Pascal,
				Fortran, RPG, SPL
	DTE A	DTE A	DTE A	1.405
Operating system name	RTE-A	RTE-A	RTE-A	MPE
Operating system	Realtime	Realtime	Realtime	Realtime, multiprogr.
Operating system implemented in firmware		<del>-</del>	Not supplied	
Database management system	Image/1000	Image/1000	Image/1000	Image/V, Turbolmage/V
Principal industry application	Manufacturing,	Manufacturing,	Manufacturing,	Office Automation
	engineering, measurement	engineering, measurement	engineering, measurement	1
Other packages	Mfg., process control,	Mfg., process control,	Mfg., process control,	Financial, sales,
[	graphics	graphics	graphics	graphics, distribution
1	[ - ·	1	- '	1-
PRICING & AVAILABILITY				1
Basic system configuration and price	CPU, RTE-A operating	CPU, RTE-A operating	CPU, RTE-A operating	CPU, 512KB memory,
bedie system comiguration and price	system, 512KB memory,	system, 512KB memory,	system, 768KB ECC	55MB disk, 67MB
	16 available I/O	hardware floating point	memory, hardware	1
·		,		cartridge tape,
Ì	channels—\$16,240	processor, 13 available	floating point	console and racking
		I/O channels— \$24,000	processor, 13 available	cabinet—
!		1	I/O channels—\$34,000	\$21,950
		l	1.	1
Mo. maintenance of basic configuration	\$67	\$72	\$90	_
Date of first delivery	March 1982	March 1982	December 1982	October 1984
Number installed to date	Not supplied	Not supplied	Not supplied	<u> </u>
COMMENTS	*Maximum dependent on	*Maximum dependent on	*Maximum dependent on	
	the specific combination	the specific combination	the specific combination	1
	of communications	of communications	of communications	į.
l	interfaces and/or	interfaces and/or	interfaces and/or	•
	peripheral devices	peripheral devices	peripheral devices	1
i	attached.	attached.	attached.	
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MANUFACTURER AND MODEL	Hewlett-Packard HP 3000 Series 42	Hewlett-Packard HP 3000 Series 58	Hewlett-Packard HP 3000 Series 70	Honeywell DPS 6/22
MORD LENGTH	16 bits	16 bits	16 bits	16 bits
WORD LENGTH	4		1.0	512KB-1.8MB
MAIN MEMORY	1MB-3MB	4MB-8MB	8MB-16MB	
DISK STORAGE CAPACITY	28MB-3.2GB	28MB-4.2GB	50MB-9.7GB	28MB-80MB
NO. WORKSTATIONS SUPPORTED	92	152	400	5
PRICE RANGE	From \$37,800	From \$75,000	From \$150,000	From \$12,995
TARGET MARKET	Business/Commercial	Business/Commercial	Business/Commercial	Technical/Business
CENTRAL PROCESSOR				
CENTRAL PROCESSOR		la		B
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
Hardware floating point	Double	Double	Double	Single/double
Battery backup	Standard	Standard	Standard	None
Realtime clock or timer	Standard	Standard	Standard	No
CPU cycle time, nanoseconds		1	75	270
			1,0	2,0
MIPS	_		<del> -</del>	_
MAIN STORAGE			1	
Bytes fetched per cycle	<del></del>	<del> </del>	<u> </u>	<del></del>
Memory access, bits/sec.	I	l	I	<del></del>
Cycle/access time, nanoseconds	430	430	145	1080
	Standard	Standard	Standard	Standard
Storage protection			1	
Increment size, bytes	512K, 1M	1M, 2M	1M, 4M	256K/512K
Cache memory, bytes	None	32K	128KB	None
NPUT/OUTPUT CONTROL			1	
No. of I/O channels	2	7	15	10
Data transfer rate	1M bytes/sec.	1M bytes/sec.	1M bytes/sec x 3	1
	in bytes/sec.	IN Dytes/sec.	TWI Dyles/sec x 3	
COMMUNICATIONS	l_	I_	1	1
Max. number of lines	3 sync	5	24	
Synchronous	Std., 19.2K bps	Std., 19.2K bps	Std., 19.2K bps	Optional
Asynchronous	Opt., 9.6K bps	Opt., 9.6K bps	Opt., 9.6K bps	Standard
Protocols supported	HDLC/SDLC, X.25, RS-422,	HDLC/SDLC, X.25, RS-422	HDLC/SDLC, X.25, RS-422	BSC, SDLC, HDLC, DSA,
Protocois supported				
	RS-232-C, CCITT V.24/.35	RS-232-C, CCITT V.24/.35	RS-232-C, CCITT V.24/.35	SNA, TTY
Type of LAN supported	None	IEEE 802.3	IEEE 802.3	None
RJE terminals emulated	2780/3780	2780/3780	2780/3780	IBM 2780/3780, HASP
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT	1.55	1.33	1	1
	Fixed: 50MB-404MB	Fixed: 50MB-404MB	Fixed: 50MB-404MB	Fixed: 20MB-28MB
Disks supported				
	Removable: 404MB	Removable: 404MB	Removable: 404MB	Removable: 20MB
Serial printers	40-200 cps	40-200 cps	40-200 cps	100-400 cps
Letter-quality printers	40-45 cps	40-45 cps	25-40 cps	35-55 cps
Line printers	300-1200 lpm	300-1200 lpm	300-1200 lpm	None
	Laser: 8-45 ppm	Laser: 8-45 ppm	Laser: 8-45 ppm	Laser
Nonimpact printers				1
Reel-to-reel tape drives	45 ips-75 ips	45 ips-75 ips	45 ips-75 ips	None
Streaming tape drives	1600/6250 bpi	1600/6250 bpi	1600/6250 bpi	55 ips; 8000 bpi
Cassette/cartridge tape drives	10,000 bpi; 67MB	10,000 bpi; 67MB	10,000 bpi; 67MB	Cartridge: 20MB-40MB
Other peripherals supported	Diskettes; plotters	Diskettes; plotters	Diskettes; plotters	
Other peripherale supported	Dionottoo, piottoio	Dichettee, pietreie	Tiendad, promore	
		1		
SOFTWARE		1	ł.	1
Assembler	<u> </u>	<u> </u>	<del> </del>	Advanced Assembler
Compilers	Basic, Cobol, Pascal,	Basic, Cobol, Pascal,	Basic, Cobol, Pascal,	Cobol, Basic, RPG II,
•	Fortran, RPG, SPL	Fortran, RPG, SPL	Fortran, RPG, SPL	Fortran, Pascal, C
		1	1	
One	MADE	MDE	MADE	ccos s
Operating system name	MPE	MPE	MPE	GCOS 6
Operating system	Realtime, batch	Transaction oriented	Transaction oriented	Multitasking
Operating system implemented in firmware	<del> </del> —	partially	Partially	
Database management system	Image/V, Turbolmage/V	Image/V, TurboImage/V	Turbolmage/V	DM6
Principal industry application	Manufacturing	Manufacturing	Manufacturing	Office, data entry,
				manufacturing
		l	l	
Other packages	Office Auto., materials	Office Auto., materials	Office Auto., materials	Accounting, program
	mgmt., production mgmt.,	mgmt., production mgmt.,	mgmt., production mgmt.,	development
	graphics, distribution	grapics, distribution	graphics, distribution	
PRICING & AVAILABILITY	J P	0 -,,		
	CDLL AMP	COLL AND	CRIL OMP	CDI 5124 5
Basic system configuration and price	CPU, 4MB memory, 2	CPU, 4MB memory, 2	CPU, 8MB memory, 2	CPU, 512K memory, 5
	general I/O channels,	general I/O channels,	general I/O channels,	workstation ports, 650KE
	disk caching, operating	disk caching, operating	1 intermodule bus, disk	diskette, 1 expansion
	system—	system—\$75,000	caching, operating	slot, 28MB fixed disk
		1 , 5.5 4, 5,000	1 0 .	1 -
	\$75,000	1	system—	\$12,995
	1	1	\$150,000	
	1	1	1	
		1	1	1
Mo. maintenance of basic configuration	I	I	\$550	Contact dealer
	Ostober 1005	Ostobor 100E		
Date of first delivery	October 1985	October 1985	1986	December 1984
Number installed to date		<del>  -</del>	1	Not supplied
COMMENTS		1	1	
your restrict to		1	1	1
	1	1		1
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	i	1	1	
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All About Willicomputers					
MANUFACTURER AND MODEL	Honeywell DPS 6/40	Honeywell DPS 6/42	Honeywell DPS 6/45	Honeywell DPS 6/70	
WORD LENGTH	16 bits	16 bits	16 bits	16 bits	
MAIN MEMORY	512KB-2MB	512KB-2MB	512KB-2MB	512KB-2MB	
DISK STORAGE CAPACITY	1GB	1GB	1GB	40MB-3GB	
NO. WORKSTATIONS SUPPORTED	28	32	32	32	
PRICE RANGE	From \$27,000	From \$19,300	From \$20,000	From \$30,500	
TARGET MARKET	Technical/Business	Technical/business	Technical/Business	Technical/Business	
TANGET WANKET	recrimedly business	T COTTINUE TO DUSTITIONS	r commodif Business	recrimeary business	
CENTRAL PROCESSOR			ŀ		
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary	
Hardware floating point	Single/double	Single/double	Single/double		
Battery backup	Optional	Optional	Optional	Optional	
Realtime clock or timer	Standard	Standard	Standard	Standard	
CPU cycle time, nanoseconds	250	250	250		
MIPS	200		_		
MAIN STORAGE		•	1		
Bytes fetched per cycle	2	2	2	2	
Memory access, bits/sec.	425	425	425	425	
Cycle/access time, nanoseconds	500	500	500	300	
Storage protection	Standard	Standard	Standard	Standard	
Increment size, bytes	256K	1MB	256K	1MB	
Cache memory, bytes	None	None	None	8K	
INPUT/OUTPUT CONTROL	1			1	
No. of I/O channels	3	3	3	3	
Data transfer rate		_	<u> </u>		
COMMUNICATIONS					
Max. number of lines	28	32	32	32	
Synchronous	Optional	Optional	Optional	Optional	
Asynchronous	Standard	Standard	Standard	Standard	
Protocols supported	BSC, SDLC, HDLC, SNA,	BSC, SDLC, HDLC, SNA,	BSC, SDLC, HDLC, SNA,	BSC, SDLC, HDLC, SNA,	
1 Totocols supported	TTY, DSA	TTY, DSA	TTY, DSA	TTY, DSA	
Type of LAN supported	Ethernet	Ethernet	Ethernet	Ethernet	
RJE terminals emulated	IBM 2780/3780, HASP	2780/3780, 3270, HASP	IBM 2780/3780, HASP	IBM 2780/3780, HASP	
IBM 3270 emulation	Yes	Yes	Yes	Yes	
PERIPHERAL EQUIPMENT	1	103	103	163	
Disks supported	Fixed: 67MB-413MB	Fixed: 67MB-413MB	Fixed: 67MB-413MB	Fixed: 67MB-413MB	
Diaka supported	Cartridge: 40MB-80MB	Cartridge: 40MB-80MB	Cartridge: 40MB-80MB	Cartridge: 40MB-80MB	
Serial printers	80-400 cps	80-400 cps	80-400 cps	80-400 cps	
Letter-quality printers	35 cps, 55 cps	35-55 cps	35 cps, 55 cps	35 cps, 55 cps	
Line printers	300-1200 lpm	300-1200 lpm	300-1200 lpm	300-1200 lpm	
Nonimpact printers	Laser	Laser	Laser	Laser	
Reel-to-reel tape drives	75-125 ips;1600/6250 bpi	75-125 ips;1600/6250 bpi	75/125 ips,1600/6250 bpi	75/125 ips,1600/6250 bpi	
Streaming tape drives	125 ips; 1600/6250 bpi	55 ips; 1600/6250 bpi	125 ips, 1600/6250 bpi	125 ips, 1600/6250 bpi	
Cassette/cartridge tape drives	None	None	None	None	
Other peripherals supported	Diskette: 650KB	Diskette: 650KB	Diskette: 650KB	Diskette: 650KB	
Caron poripriorate dapportos	Distriction Gootto	Distriction Goods	Distriction Gooks	Diskotto: Cookb	
SOFTWARE			1 -		
Assembler	Macro	Macro	Macro	Macro	
Compilers	Cobol, Basic, RPG II,	Cobol, Basic, RPG II,	Cobol, Basic, RPG II,	Cobol, Basic, RPG II,	
o in photo	Fortran, Pascal, C, ADA	Fortran, Pascal, C, ADA	Fortran, Pascal, C, ADA	Fortran, Pascal, C, ADA	
			, , , , , , , , , , , , , , , , , , , ,		
Operating system name	GCOS 6	GCOS 6	GCOS 6	GCOS 6	
Operating system	Realtime	Realtime	Realtime	Realtime	
Operating system implemented in firmware		None	None	None	
Database management system	DM6	DM6, Oracle	DM6	DM6	
Principal industry application	Manufacturing, distri-	Manufacturing, distri-	Manufacturing, distri-	Manufacturing, distri-	
• • • • • • • • • • • • • • • • • • • •	bution, pharmacy	bution, pharmacy	bution, pharmacy	bution, pharmacy	
Other packages	Office automation,	Office automation,	Office automation,	Office automation,	
· •	accounting, hospital	accounting, hospital	accounting, hospital	accounting, hospital	
	]	J	3		
PRICING & AVAILABILITY			1	1	
Basic system configuration and price	512KB memory, 40MB disk	2MB memory, 650KB disk-	512KB memory, 80MB cart.	CPU, 2MB memory, cache	
	650KB diskette,	ette, 132MB fixed disk,	disk, 650KB diskette	memory, 4 RS-232 portw,	
	communications	streamer and adapter,	communications	650KB diskette, disk	
	controller, 4 RS-422	MDC III comm. contr.	controller, 4	controller—	
	ports, 2 megabus slots,	4 RS-422 ports—	workstation ports,	\$30,500	
	console—\$27,000	\$48,000	printer port, console—		
	1	, , , , , , , , , , , , , , , , , , , ,	\$45,500		
			1. /	·	
Mo. maintenance of basic configuration	\$162	\$207	\$258		
Date of first delivery	April 1983	August 1985	November 1983	September 1985	
Number installed to date	Not supplied	Not supplied	Not supplied	Not supplied	
COMMENTS					
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IDM IDM					
MANUFACTURER AND MODEL	Honeywell DPS 6/75	IBM Series 1 Model 4954	IBM Series 1 Model 4956	IBM System 36 Model 5360	
VORD LENGTH	16 bits	16 bits	16 bit	8 bit	
MAIN MEMORY	1MB-2MB	64KB-1024KB	1MB-2MB	128KB-2MB	
··· ··· · · · · · · · · · · · · · · ·					
DISK STORAGE CAPACITY	2GB	9.3MB-800MB	9.3MB-800MB	30MB-1432MB	
IO. WORKSTATIONS SUPPORTED	96	256	256	136	
PRICE RANGE	From \$35,000	From \$8,500	From \$12,500	\$21,000-\$87,100	
ARGET MARKET	Technical/Business	Business	Business	General Business	
ENTRAL PROCESSOR					
CPU manufacturer and model	proprietary	Proprietary	Proprietary	Proprietary	
Hardware floating point	Double	Double	Double	No	
Battery backup	Optional	Optional	Optional	<u> </u>	
Realtime clock or timer	Standard	Optional	Optional	1_	
CPU cycle time, nanoseconds	220		<u> </u>	<u> </u>	
MIPS	220				
	<del></del>		<u> </u>	-	
MAIN STORAGE		i .			
Bytes fetched per cycle	2	<u> </u>	_	<del></del>	
Memory access, bits/sec.	425		I=-	<del>-</del>	
Cycle/access time, nanoseconds	500	1.4 ms	550		
Storage protection	Standard	None	Standard	Standard	
Increment size, bytes	256K	64K	1M	128K, 256K	
Cache memory, bytes	8K	64K	64K	None	
NPUT/OUTPUT CONTROL			1	1	
No. of I/O channels	8	3-13	3-13	4	
Data transfer rate	l <u>-</u>	2.4M bytes/sec.	2.4M bytes/sec.	2.5M bytes/sec.	
COMMUNICATIONS			2. /// 5/105/300.	7.507,360.	
	96		1	4	
Max. number of lines		Ont ESK has	Opt., 56K bps	Std., 56K bps	
Synchronous	Opt., 19.2K bps	Opt., 56K bps			
Asynchronous	Opt., 19.2K bps	Opt., 19.2K bps	Opt., 19.2K bps	Opt.	
Protocols supported	BSC, HDLC, SDLC, SNA,	BSC, X.25, HDLC/SDLC,	BSC, X.25, HDLC/SDLC,	X.25, SNA, BSC, SDLC	
	TTY, DSA	SNA	SNA	ł	
Type of LAN supported	Ethernet	Industrial, PC, Token	Industrial, PC, Token	None	
RJE terminals emulated	IBM 2780/3780	2780/3780	2780/3780		
IBM 3270 emulation	Yes	Yes	Yes	Yes	
ERIPHERAL EQUIPMENT	• •				
Disks supported	Fixed: 67MB, 413MB	Fixed: 9.3-200MB	Fixed: 9.3-200MB	Fixed: 30MB-1432MB	
	Removable: 40MB, 80MB				
Serial printers	80-400 cps	40-160 cps	40-160 cps	40-200 cps	
Letter-quality printers	35, 55 cps	None	None	40/60 cps	
Line printers	300-1200 lpm	140-560 lpm	140-560 lpm	95-650 lpm	
Nonimpact printers	Laser				
Reel-to-reel tape drives	75/125 ips;1600/6250 bpi	45/75 ips; 800/1600 bpi	45/75 ips; 800/1600 bpi	None	
Streaming tape drives	125 ips; 1600/6250 bpi	50/100 ips; 80M	50/100 ips; 80M	12.5/100 ips; 1600 bpi	
Cassette/cartridge tape drives	None	None	None	None	
	Diskette: 650KB	Diskette	Diskette	Diskette	
Other peripherals supported	Diskette: 650KB	Diskette	Diskette	Diskette	
OFTWARE					
Assembler	Macro	Macro	Macro	Assembler	
Compilers	Cobol, Basic, RPG II,	Cobol, Fortran IV,	Cobol, Fortran IV,	Basic, Cobol,	
Compilers	Fortran, Pascal, C, ADA	PL/1, Basic, Pascal	PL/1, Basic, Pascal	Fortran IV, RPG II	
	Tortian, Fascar, C, ADA	T E/ 1, Basic, Tascar	r E/ 1, Basic, 1 ascai	Tortian IV, III a II	
Operating system name	GCOS 6	EDX, RPS	EDX, RPS, IX	SSP	
	Realtime				
Operating system		Multitasking	Multitasking	Multitasking	
	None	No	No	IN-	
Database management system	DM6	None	None	None	
Principal industry application	Manufacturing,	Industrial, retail,	Industrial, retail, o	Manufacturing,	
	distribution, pharmacy	financial, transporta-	financial, transporta-	Distribution	
Other packages	Office Automation,	tion, communications,	tion, communications,	Office automation	
	Accounting, hospital	telephone management,	telephone management,	1	
	1	insurance, government	insurance, government		
RICING & AVAILABILITY		Ī.,	1		
Basic system configuration and price	CPU, 1MB memory; 80MB	CPU, 64KB memory, 13	CPU, 1MB memory, 13	Model A11, 128KB memo	
, , , , , , , , , , , , , , , , , , , ,	disk, printer port; 4	I/O feature slots—	I/O slots	diskette drive, 30MB	
	workstation ports; 650KB	\$8,500	12,500	disk—\$21,000	
	diskette, console—	1,555	1 -2,555	1	
		l	1	1	
	\$60,000		1		
		1	1		
Ma maintanana of basis andiscussive	CAEO	. ·	627	toe	
Mo. maintenance of basic configuration	\$458	\$45	\$37	\$96	
Date of first delivery	November 1983	1982	1983	July 1983	
Number installed to date	Not supplied	<u> </u>	<del>-</del>	<del> </del>	
COMMENTS	1	1	1	1	
	1	1	1	1	
		1			
		1	1	1	

MANUFACTURER AND MODEL	IBM System 36 Model 5362	IBM System 38 Model 4	IBM System 38 Model 6	IBM System 38 Model 18
WORD LENGTH	8 bit	8 bits	8 bits	8 bits
MAIN MEMORY	128KB-1MB	1MB-2MB	2MB-6MB	4MB-8MB
DISK STORAGE CAPACITY	30MB-120MB	64MB-3306MB	64.5MB-3306MB	64.5MB-6225,9MB
NO. WORKSTATIONS SUPPORTED	92	256	256	256
PRICE RANGE	\$41,000-\$100,000	\$61,000-\$127,000	\$95,000-\$147,990	\$122,840-\$202,990
TARGET MARKET	General Business	Business/Commercial	Business/Commercial	Business/Commercial
CENTRAL PROCESSOR		,	·	,
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
Hardware floating point	No		Tophetary	Proprietary
Battery backup		_		
Realtime clock or timer	_	_		
CPU cycle time, nanoseconds		200	133	133
MIPS				_
MAIN STORAGE				
Bytes fetched per cycle	<u> </u>			
Memory access, bits/sec.				4 bytes/sec.
Cycle/access time, nanoseconds		1100	400	400
Storage protection	Standard	Standard	Standard	Standard
Increment size, bytes	128K-1MB	128K	1M	2M
Cache memory, bytes	None	None	None	None
INPUT/OUTPUT CONTROL				
No. of I/O channels	4	1	1	1
Data transfer rate	2.5M bytes/sec.	2.5M bytes/sec.	2.5M bytes/sec.	2.5M bytes/sec.
COMMUNICATIONS	1	, , ,	.,,	1
Max. number of lines	4	8	8	12
Synchronous	Std., 56K bps	Std., 9.6K bps	Std., 9.6K bps	Std., 9.6K bps
Asynchronous	Opt.	Opt., 1.2K bps	Opt., 1.2K bps	Opt., 1.2K bps
Protocols supported	X.25, SNA, BSC, SDLC	SDLC, SNA, BSC	SDLC, SNA, BSC	SDLC, SNA, BSC, X.25
				,
Type of LAN supported	None	None	None	None
RJE terminals emulated	_	3770	3770	3770
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT			į	
Disks supported	Fixed: 30MB-120MB	Fixed: 64MB, 285MB	Fixed: 64MB, 387.1MB	Fixed: 64MB, 387.1MB
Serial printers	40-200 cps	40-120 cps	40-120 cps	40-120 cps
Letter-quality printers	40/60 cps	<del></del>		—
Line printers	95-650 lpm	200-1200 lpm	200-1200 lpm	200-1200 lpm
Nonimpact printers	_		i—	
Reel-to-reel tape drives	None	12-50 ips, 800/1600 bpi	12-50 ips, 800/1600 bpi	12-50 ips, 800/1600 bpi
Streaming tape drives	12.5/100 ips; 1600 bpi	None	None	None
Cassette/cartridge tape drives	None	None	None	None
Other peripherals supported	Diskette	Card equipment, diskette	Card equipment, diskette	Card equipment, diskette
SOFTWARE				
Assembler	Assembler		Not supplied	
Compilers	Basic, Cobol,	RPG, Cobol, Basic	RPG, Cobol, Basic	RPG, Cobol, Basic
	Fortran IV, RPG II	111 0, 00001, 50010	The G, Gobol, Busic	Til G, CODOI, Basic
Operating system name	SSP	CPF	CPF	CPF
Operating system	Multitasking	Multitasking, batch	Multitasking, batch	Multitasking, batch
Operating system implemented in firmware				
Database management system	None	None	None	None
Principal industry application	Manufacturing,	General Business	General Business	General Business
	Distribution			
Other packages	Office automation	Manufacturing,	Manufacturing,	Manufacturing,
		Distribution, Office/38	Distribution, Office/38	Distribution, Office/38
		•		
PRICING & AVAILABILITY				
Basic system configuration and price	Model A02, 128KB memory,		CPU, 6,144KB memory,	CPU, 2MB memory,
	diskette drive, 60MB	64.5MB disk, system	129MB disk, system	129MB disk, diskette,
	disk\$15,000	console, diskette &	console and keyboard	system console, & one
		one workstation	display, diskette, one	workstation controller—
		controller—\$49,140	workstation controller	\$131,070
			\$103,570	
			1	
	l	<b>.</b>	l	
Mo. maintenance of basic configuration	\$70	\$474	\$971	\$656
Date of first delivery	April 1984	August 1980	March 1984	1985
Number installed to date	<del></del>	Not supplied	<del> </del>	
COMMENTS				
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MANUFACTURER AND MODEL	IBM System 38 Model 40	IBM System 38 Model 20	IBM 8100 Information System	MAI/Basic Four 1600
AVORD LENGTH	O bite	G his	O bin-	O biss
WORD LENGTH	8 bits	8 bits	8 bits	8 bits
MAIN MEMORY	4MB-16MB	4MB-8MB	256KB-8MB	128KB-512KB
DISK STORAGE CAPACITY	64.5MB-6225.9MB	64.5MB-6225.9MB	29MB-2GB	22MB-120MB
NO. WORKSTATIONS SUPPORTED	256	256	Depends on configuration	16
PRICE RANGE	\$207,000-\$317,990	\$147,000-\$228,000	\$19,000-\$160,000	\$16,420-\$65,000
ARGET MARKET	Business/Commercial	Business/Commercial	Disributed Processing	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
Hardware floating point			Double	No
Battery backup				Standard
Realtime clock or timer				Standard
CPU cycle time, nanoseconds				200
•	3.0			200
MIPS	3.0	<u> </u>	<b> </b>	
MAIN STORAGE		1_		
Bytes fetched per cycle	4	4	<del>-</del>	8
Memory access, bits/sec.	<del>  -</del>		<del></del>	8 bits/sec.
Cycle/access time, nanoseconds	333	400	800/1600	600
Storage protection	Standard	Standard	Standard	Standard
Increment size, bytes	8MB, 12MB, 16MB	4MB, 6MB, 8MB	128K-8M	32K
Cache memory, bytes	None	None	None	Opt., 32K
NPUT/OUTPUT CONTROL				1
No. of I/O channels		<b>_</b>	8	<u> </u>
Data transfer rate	1	1	<u></u>	20K bytes/sec.
		I—	I	ZON Dytes/sec.
COMMUNICATIONS	4.0	140	0.44	1.0
Max. number of lines	12	12	6-11	16
Synchronous	Std., 9.6K bps	Std., 9.6K bps	Std., 38.4K bps	Opt., 9,600 bps
Asynchronous	Opt., 1.2K bps	Opt., 1.2K bps	Opt.	Std., 9,600 bps
Protocols supported	SDLC, BSC, 3270, X.25	SDLC, BSC, 3270, X.25	SDLC, BSC, SNA	2780/3780, 2770/3770,
				3270, X.25
Type of LAN supported	-		None	B4NET
RJE terminals emulated	3770	3770		2770/2780, 3770/3780
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT		1.30	1.35	1.55
Disks supported	Fixed: 64MB-729.8MB	Fixed: 64MB-729.8MB	Fixed: 131MB Removable: 29, 65, 129MB	Fixed: 22MB, 43MB, 120f
Serial printers	40-560 cps	40-560 cps	40-450 cps	120-160 cps
Letter-quality printers	40-120 cps	40-120 cps		40 cps
Line printers	44-1200 lpm	44-1200 lpm	120-600 lpm	150/200/300 lpm
Nonimpact printers	44-1200 ipili	44° (200 ipin	120-000 ipin	150/200/500 ipin
Reel-to-reel tape drives	12-50 ips; 200-1600	12 50 : 200 1600	Name	175 ips
•	12-50 lps; 200-1600	12-50 ips; 200-1600	None	
Streaming tape drives			12.5/100 ips, 1600 bpi	100 ips
Cassette/cartridge tape drives	<del>-</del>	-	None	30 ips
Other peripherals supported			Card readers, diskette	
SOFTWARE				
Assembler	None	None	Assembler	None
Compilers	RPG. Cobol. Basic	RPG, Cobol, Basic	Cobol, Fortran, APL,	Business Basic
Compilera	Til G, Gobol, Basic	Til G, Cobol, Basic	PL/1	Dusiness Dasic
			-/ '	
Operating system name	CPF	CPF	DPPX, DPCX	
Operating system	Batch, realtime, multita	Batch, realtime, multita	I—	Multitasking
Operating system implemented in firmware				Fully
Database management system	None	None	DTMS	Origin
Principal industry application	General business	General business	Distributed Processing	Various business
оры посону аррисаноп	Control Dualities	Johnson Duamicaa	Distributed 1 rocessing	- arious business
Other nackages	Manufacturing diseri	Manufacturing		Electronic mail,
Other packages	Manufacturing, distri-	Manufacturing, distri-	1	
	bution, Office 88	bution, Office 88	1	word processing
		1	1	1
RICING & AVAILABILITY			1	1
Basic system configuration and price	CPU, 12,228K memory,	CPU, 6144K memory,	CPU, 256KB memory,	CPU, 128K memory,
	129MB disk storage—	258MB disk storage	64MB disk, 8 I/O	22MB fixed disk,
	\$246,410	\$190,980	hardware levels—	cartridge tape, 120 cps
			\$20,600	printer, terminal,
			1	Boss operating system
	İ			—\$16,420
				\$10,420
Mo. maintenance of basic configuration	\$1,048	\$1,059	\$170	\$129
Date of first delivery	September 1984	September 1984	August 1979	July 1984
Number installed to date				Not supplied
COMMENTS		-	1	1.10t aupplieu
CIVITATELLO		1	1	1
			1	1
			1	1
		i	1	1
			Į.	

CPU manufacturer and model hardware floating point Standard Standa	SIZER-1024KB   STORAGE CAPACITY   CONSISTATIONS SUPPORTED   AVERAGE   STORAGE   STOR	MANUFACTURER AND MODEL	McDonnell Douglas Computer Systems Co. M6310	McDonnell Douglas Computer Systems Co. M6325	McDonnell Douglas Computer Systems Co. M6527	MDS Qantel Business Computers System 45
STAIN MEMORY   SIX STORAGE CAPACITY   SIX STORAGE CAPACITY   AVMB-120MB   40MB-120MB   40MB-120MB   40MB-120MB   40MB-120MB   40MB-126MB   40MB-12	SIZER-1024KB   STORAGE CAPACITY   CONSISTATIONS SUPPORTED   AVERAGE   STORAGE   STOR	VORD LENGTH	16 hite	16 hite	16 bits	8 hite
Month	SIKS STORAGE CAPACITY   A0MB-120MB   A0MB-226MB   A0MB-246MB   A8MB-2 6GB   A8MB-					
10. WORKSTATIONS SUPPORTED   16   From \$26,000   Business   32   32   32   33   34   35   30,000   35   31,000-350,000   31,000-350,	2					
RICE RANGE ARGET MARKET  Business  B	RICE FANNEET  RARGET MARKET  RARGET MARKET  RARGET MARKET  RARGET MARKET  RARGET MARKET  REPAIR SEA,000 Business  Rusiness  Ru					
## Suriness   Business	## ARRET ## ARRET ## Business		l .		1 12	
NOC Bit sliced   NOC	ENTRAL PROCESSOR PUT manufacturer and model retrievants floating point None Standard			1	1	1
CPU marinfacturer and model startow's bokup point alteriary bokup (Patriardware floating point Standard Standar	Description   Comparison   Co	ARGET MARKET	Business	Business	Business	Business
Hardware floating point Realtine clock or timer Realtine clock or timer Realtine clock or timer Standard Standa	None	ENTRAL PROCESSOR	MDO Die alliand	MDC Dis allered	MADO Dis alicand	2001 his all
Standard   Standard	Standard   Standard					
Realtime clock or timer (PCPL cycle time, nanoseconds MPS  AND STORAGE	Standard   Standard				1	
Second   S	SPU cycle time, nanoseconds   S0					1
American   American	MIRS TORAGE Pyres fetched per cycle Whenomy access, bits/sec.  320 Mbits/sec.					
TAIN STORAGE	ABA STORAGE   Provide   Common access, bits/sec.   2		80	180	80	91
Syste Stetched per cycle   Memorry access, bitis/sec.   2	Syles fetched par cycle   2			<del> </del>	<del> </del>	
Momory access, bits/sec.   50M bits/sec.   320	Memory access, bits/sec.   50M bits/sec.   320	AAIN STORAGE		ŀ	1	1
S20   320	\$200   \$200	Bytes fetched per cycle	2	2	2	1
Standard   Standard	Standard   Standard	Memory access, bits/sec.	50M bits/sec.	50M bits/sec.	50M bits/sec.	14.2M bits/sec.
Standard   Standard	Standard   Standard	Cycle/access time, nanoseconds	320	320	320	565
	256KB, 512KB		Standard	Standard	Standard	Standard
None	None	•				
PUT/OUTPUT CONTROL No. of I/O channels   32	PUT/OUTPUT CONTROL No. of I/O channels Data transfer rate   780K bytes/sec.   780K			•	, - · - · - ·	
No. of I/O channels   32   32   780K bytes/sec.   780K bytes/sec.   780K bytes/sec.   780K bytes/sec.   780K bytes/sec.   780K bytes/sec.   780K bytes/sec.   556K bytes/sec	No. of I/O Channels   32   32   780K bytes/sec.   780K bytes/sec		]			1
Data transfer rate	780K bytes/sec.   780K bytes		32	32	32	8
OMMUNICATIONS Max. number of lines Synchronous Synchronous Synchronous Stid., 19.2K bps Sti	OMMUNICATIONS         AB         AB         AB         AB         AB         AB         No         No         No         No         No         Opportunition         Std., 19.2K bps					i
Max. number of lines	Max. number of lines		, ook bytes/sec.	JOOK Dyles/Sec.	JOOK Dytes/sec.	Jour Dyles/Sec.
Synchronous Asynchronous Std., 19.2K bps 2780/3780,2770, 3741  Type of LAN supported REI terminals emulated 12780/3780 No No No No No No No No No No No No No	No.		40	40	40	I Indicate at
Std.   19.2K bps   2780/3780,2770, 3741   2780/3780,2770,3741   2780	Std.   19.2K bps   2780/3780, 2770, 3741   None   2780/3780, 2770, 3741   None   2780/3780, 2770, 3741   None   2780/3780   2780/3780   2780/3780   None   2780/3780   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   2780/3780   None   None   2780/3780   None   None   None   2780/3780   None   N		1	l.		1
2780/3780_2770_3741   2780/3780_2770_3741   3740_HASP.   RJE	2780/3780,2770, 3741   2780/3780,2770, 3741   2780/3780,2770, 3741   3740, HASP, RUP of LAN supported RIVE terminals emulated 2780/3780   2780/3780			i '		
Type of LAN supported RJE terminals emulated BLM 3270 emulation RJE terminals emulated BLM 3270 emulation No No No No No No No No No No No No No	Type of LAN supported RJE terminals emulated Blast 3270 emulation RJE terminals emulated Blast 3270 emulation RJE terminals emulated Blast 3270 emulation RJE terminals emulated Blast 3270 emulation RJE terminals emulated Fixed: 40MB Fixed: 40MB Fixed: 40MB Fixed: 40MB Fixed: 40MB Fixed: 45MB-430MB F					
Type of LAN supported REL Estminals emulated 2780/3780 No None REL Estminals emulated 2780/3780 No No No No No No No No No No No No No	None (RE terminals emulated (RE) emulation (RE) emu	Protocols supported	2780/3780,2770, 3741	2780/3780,2770, 3741	2780/3780,2770, 3741	
2780/3780	RILE terminals emulated BIM 3270 emulation RIPHERAL EQUIPMENT Disks supported  Fixed: 40MB  Fixe		1		1	
IBM 3270 emulation ERPHFEATA EQUIPMENT Disks supported  Fixed: 40MB  F	IBM 3270 emulation ERIPHERAL ECUIPMENT Disks supported  Fixed: 40MB Fixed: 40M	Type of LAN supported	None		None	Best Net
IBM 3270 emulation ERIPHERIAL EQUIPMENT Disks supported  Fixed: 40MB Fixed: 40	IBM 3270 emulation ERIPHERAL ECUIPMENT Disks supported  Fixed: 40MB Fixed: 40M		2780/3780	2780/3780	2780/3780	2780/3780
EIRPHERAL EQUIPMENT Disks supported  Fixed: 40MB  Fixed:	ERIPHERAL EQUIPMENT Disks supported  Fixed: 40MB  Fixed:					
Disks supported  Fixed: 40MB  Fixed: 40MB  Fixed: 40MB  Fixed: 40MB, 260MB  Fixed: 45MB-430MB  Fixed: 45MB-44  Non  Nono  None  None  None  Macro	Disks supported  Fixed: 40MB  F				1	
Letter-quality printers Line printers Nonimpact printers Nonimpact printers None None 150-1200 lpm None 150-120 lpm None 150-120 lp	Letter-quality printers Line printers Nonimpact printers Nonimpact printers Nonimpact printers None None None None None None None 100/50ips; 1600/3200 bpi 90 ips 100/50ips; 1600/3200 bpi 90 ips 00 i		Fixed: 40MB	Fixed: 40MB	Fixed: 40MB, 260MB	Fixed: 45MB-430MB
Letter-quality printers Line printers Nonimpact printers Nonimpact printers None None None None None None None None	Letter-quality printers Line printers Nonimpact printers Nonimpact printers Nonimpact printers None None None None None None None 100/50ips; 1600/3200 bpi 90 ips 100/50ips; 1600/3200 bpi 90 ips 00 i	<b>.</b>	1.00 400	100 100	1400 400	1.00
Line printers Nonimpact printers Nonimpact printers Real-to-reet tape drives Streaming tape drives Cher peripherals supported  OFTWARE Assembler Compilers  Operating system name Operating system mangement system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration and price  OFU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mone 100/50ips; 1600/3200 bpi 90 ips  150-1200 lpm None 100/50ips; 1600/3200 bpi 90 ips  150-1200 lpm None 100/50ips; 1600/3200 bpi 90 ips  1600/50ips; 1600/3200 bpi 90 ips  Macro Basic, English, Natural, All  All  — — Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mone mintenance of basic configuration  Date of first delivery  Number installed to date  OMMKENTS  Discreting experience  Macro Basic, English, Natural, All  — — Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Contact vendor January 1985 — — Sidd by value added deelers in U.S. and	Line printers Nonimpact printers Nonimpact printers None Monimpact printers Reel-to-reel tape drives Streaming tape drives Cher peripherals supported  DFTWARE Assembler Compilers  Macro Basic, English, Natural, All  Deperating system name Operating system mangument system Principal industry application  Other packages  RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, ¼" streaming tape drive, 18232+7RS422 ports —\$26,000  Monimpact printers None 100/50ips; 1600/3200 bpi 90 ips  150-1200 lpm —None 100/50ips; 1600/3200 bpi 90 ips  Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automati		•	•		
None None Real-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Comprehens supported  OFTWARE Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system Operating system Operating system Operating system Denerating system Principal industry application Cher packages  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, IRS232+7RS422 ports —\$26,000  Mone 100/50ips; 1600/3200 bpi 90 ips  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, IRS232+7RS422 ports —\$26,000  Mone 100/50ips; 1600/3200 bpi 90 ips  Streaming: 80MB 2.6 Diskette  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  MRE office automation  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, IRS232+7RS422 ports —\$26,000  Contact vendor January 1985 —\$26,000  Contact vendor January 1985 —\$210  December 1984 ——  Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, IRS232+7RS422 ports —\$39,000  Croatect vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor January 1985 ——  Gontact vendor Janu	None None Relet-to-reel tape drives Cassette/carridge tape drives Cassette/carridge tape drives Cassette/carridge tape drives Cassette/carridge tape drives Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Database management system Corrigio industry application Cher packages  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date OMMENTS  None 100/50ips; 1600/3200 bpi 90 ips  Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  None 100/50ips; 1600/3200 bpi 90 ips  Macro Basic, English, Natural, All  — Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  None 100/50ips; 1600/3200 bpi 90 ips  Streaming: 160MB 2.6 Diskette  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact ve	Letter-quality printers				
Reel-to-reel tape drives Streaming tape drives Circaming tape drive, IRS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Circaming tape drive, Circaming tape drive, Circaming tape drive, Circaming tape drive, Riscaming tape d	None 100/50ips; 1600/3200 bpi 90 ips  Nacro Basic, English, Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  None 100/50ips; 1600/3200 bpi 90 ips  Nacro Basic, English, Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  None 100/50ips; 1600/3200 bpi 90 ips  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  Natural, All  None 100/50ips; 1600/3200 bpi 90 ips  Natural, All  Natural, All  Natural, All  Natural, All  None 100/50ips; 1600/3200 bpi 100/50ips; 1600/3200		150-1200 lpm	150-1200 lpm	150-1200 lpm	
Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Database management system Other packages  Other packages  Other packages  Other packages  Other packages  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date  OMMENTS  ODITION 190 jps  100/50ips; 1600/3200 bpi 90 ips  100/50ips  100/50ips 100/5	Streaming tape drives Cassette/cartridge tape drives Classette/cartridge tape drives Other peripherals supported  OFTWARE Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Database management system Other packages  Other packages  Other packages  Telloy CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Telloy Sips; 1600/3200 bpi 90 ips  100/50ips; 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips: 1600/3200 bpi 90 ips  100/50ips 100/50ips  100/50ips 100/50ips  100/50ips 1	Nonimpact printers		<u> </u>	<b> </b>	None
Cassette/cartridge tape drives Other peripherals supported  Macro Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Database management system Other packages  Militiasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Menory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986	Cassette/cartridge tape drives Other peripherals supported  Other peripherals supported  Other peripherals supported  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Detabase management system Principal industry application Other packages  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1185232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1185232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1185232+7RS422 ports —\$26,000  Contact vendor January 1985 —  Contact vendor January 1985 —  Sold by value added dealers in U.S. and	Reel-to-reel tape drives				
Cassette/cartridge tape drives Other peripherals supported  Macro Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Database management system Other packages  Militiasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Macro Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Menory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 18S232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986	Cassette/cartridge tape drives Other peripherals supported  Other peripherals supported  Other peripherals supported  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Detabase management system Principal industry application Other packages  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1185232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1185232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Macro Basic, English, Natural, All  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1185232+7RS422 ports —\$26,000  Contact vendor January 1985 —  Contact vendor January 1985 —  Sold by value added dealers in U.S. and	Streaming tape drives	100/50ips; 1600/3200 bpi	100/50ips; 1600/3200 bpi	100/50ips; 1600/3200 bpi	25-100 ips; 1600-3200b
Oftware peripherals supported  OFTWARE Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system in miles are partially Database management system Principal industry application Other packages  Office automation  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date  OMM. maintenance of basic configuration Date of first delivery Number installed to date  OMM. maintenance of basic configuration Date of first delivery Number installed to date  OMM. Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Macro Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor December 1984 —  Contact vendor December 1984 —  February 1986 —  Sold by value added dealers in U.S. and	Other peripherals supported  OFTWARE Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system Opera	Cassette/cartridge tape drives				
Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system Operating sy	Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Ope	Other peripherals supported				
Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system Operating sy	Assembler Compilers  Macro Basic, English, Natural, All  Operating system name Operating system implemented in firmware Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Operating system operation Ope	OFTWARE				
Compilers    Basic, English, Natural, All   Basic, English, Na	Degrating system name Operating system implemented in firmware Database management system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Basic, English, Natural, All  Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manu-facturing, dist., gov. MRE office automation  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manu-facturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  CIC Basic, English, Natural, All  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manu-facturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  COntact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986		Moore	Magra	Magra	Maara
Operating system name Operating system implemented in firmware Operating system implemented in firmstalled in firmst	Natural, Åll  Deparating system name Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system operation operation operation operation operation operation operating system operation operation operation operation operation operation operation operation operation operation operation operation operation operation operation operation operation operation ope			i e		
Operating system name Operating system implemented in firmware Database management system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration and price  MCPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  COntact vendor January 1985  COntact vendor January 1985  COntact vendor January 1985  COntact vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming t	Operating system name Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Operating system operating system implemented in firmware Operating system operating system operating system operating system operating system operating system operating system operating system operating system operating system operating system operating system operating system operating system operating system implemented in firmware Operating system operating system implemented in firmware Operating system operating system implemented in firmware Operating system operating system operating system implemented in firmware Operating system operating system implemented in firmware Operating system operating system operating operating system operating system implemented in firmware Operating system operating system implemented in firmware Operating system operating system operating operating system implemented in firmware Operating system operating	Compilers				CIC Basic, Cobol
Operating system Operating system Operating system implemented in firmware Database management system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Multitasking Partially Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Spread sheet, word processing  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Mo. maintenance of basic configuration Date of first delivery None  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  —  Contact vendor January 1985  —  Contact vendor January 1985  —  Sold by value added dealers in U.S. and	Departing system Operating Operating system Operating system Operating system Operating system Operating system Operating seality Database Mgmt. Gen. busianes, manufacturing, dist., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. Operating sits., gov. Operating sits., gov. Operating sits., g		Natural, All	Natural, All	Natural, All	
Operating system Operating system Operating system Operating system Operating system Operating system implemented in firmware Database management system Principal industry application Other packages  Other	Departing system Operating Operating system Operating system Operating system Operating system Operating system Operating seality Database Mgmt. Gen. busianes, manufacturing, dist., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. MRE office automation Operating sits., gov. Operating sits., gov. Operating sits., gov. Operating sits., g	Operating system name		_		Rest/AOS
Operating system implemented in firmware Database management system Principal industry application Other packages  Other packa	Operating system implemented in firmware Database management system Principal industry application Other packages  Other packa		Multitacking	Multitacking	Multitacking	
Database management system Principal industry application  Other packages  Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  COntact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986	Database management system Principal industry application Other packages Other packages Other packages  Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  Reality Database Mgmt. Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Contact vendor January 1985  COntact vendor January 1985  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986  Contact vendor January 1986					
Principal industry application  Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, ¼" streaming tape drive, 1RS232+7RS422 ports—\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Gen. busisnes, manufacturing, dist., gov. MRE office automation  Gen. busisnes, manufacturing, dist., gov. MRE office automation  Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, ¼" streaming tape drive, 1RS232+7RS422 ports—\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, ¼" streaming tape drive, 1RS232+7RS422 ports—\$26,000  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Contact vendor January 1985  Sold by value added dealers in U.S. and	Principal industry application Other packages  Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, ¼" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Gen. busisnes, manufacturing, dist., gov. MRE office automation  Gen. busisnes, manufacturing, dist., gov. MRE office automation  CPU, cabinet, 256KB memory, 40MB fixed disk, ¼" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, ½" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Contact vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1985  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986  CONTACT vendor January 1986			1 '		
Other packages    facturing, dist., gov. MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   Spread sheet, word processing	Other packages    facturing, dist., gov. MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   MRE office automation   Spread sheet, word processing					
Other packages  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  MRE office automation  CPU, cabinet, 512KB memory, 40MB fixed disk, ½" streaming tape drive, 1RS232+7RS422 ports  —\$26,000  Mo. maintenance of basic configuration  Date of first delivery  Number installed to date  OMMENTS  MRE office automation  MRE office automation  MRE office automation  MRE office automation  CPU, cabinet, 512KB memory, 40MB fixed disk, ½" streaming tape drive, 1RS232+7RS422 ports  —\$39,000  Contact vendor  January 1985  —  Sold by value added dealers in U.S. and	MRE office automation  Decumps and a supplied	Principal industry application				
RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CONTACT Vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  S16,950  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$16,950  C	RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT Vendor January 1985  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT Vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT Vendor January 1985  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT Vendor January 1986  CPU, cabinet, 256KB memory, 40MB fixed disk, 1/4" streaming tape drive, 1RS232+7RS422 ports —\$45MB disk drive, 1RS232+7RS42		, ,			
RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$210 February 1986  CPU, cabinet, 512KB memory, 40M	RICING & AVAILABILITY Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER 1984  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  CONTACT VENDOR TO DECEMBER	Other packages	MRE office automation	MRE office automation	MRE office automation	
Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  COntact vendor January 1985 —  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor January 1985 —  CPU, cabinet, 512KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  Contact vendor December 1984 —  Sold by value added dealers in U.S. and	Basic system configuration and price  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000  CPU, cabinet, 256KB memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$39,000  COntact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor January 1985 —  Contact vendor December 1984 —  Sold by value added dealers in U.S. and					processing
memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000	memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000 molecular delivery, 26,000 molecular delivery 1RS232+7RS422 ports —\$26,000 molecular delivery 1RS232+7RS422 ports —\$39,000 molecular delivery 1RS232+7RS422 ports —\$39,000 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1985 molecular delivery 1985 molecular delivery 1985 molecular delivery 1986 molecular delivery 1985 molecular delivery 1986 molecular delivery 1					
memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000	memory, 40MB fixed disk, %" streaming tape drive, 1RS232+7RS422 ports —\$26,000 molecular delivery, 26,000 molecular delivery 1RS232+7RS422 ports —\$26,000 molecular delivery 1RS232+7RS422 ports —\$39,000 molecular delivery 1RS232+7RS422 ports —\$39,000 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1RS232+7RS422 ports —\$16,950 molecular delivery 1985 molecular delivery 1985 molecular delivery 1985 molecular delivery 1986 molecular delivery 1985 molecular delivery 1986 molecular delivery 1	Basic system configuration and price	CPU, cabinet, 256KB	CPU, cabinet, 256KB	CPU, cabinet, 512KB	CPU, 256K memory, ¼"
1/2" streaming tape drive, 1RS232+7RS422 ports   1/2" streaming tape drive, 1/2" str	1/2" streaming tape drive, 1RS232+7RS422 ports — \$26,000		memory, 40MB fixed disk,			streaming cartridge
Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS    RS232+7RS422 ports	Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS    TRS232+7RS422 ports					
Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  —\$26,000  —\$26,000  —\$39,000  \$16,950  Contact vendor January 1985 —— January 1985 —— Sold by value added dealers in U.S. and	Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS					
Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Contact vendor January 1985 — January 1985 — December 1984 — Sold by value added dealers in U.S. and	Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Contact vendor January 1985 — Sold by value added dealers in U.S. and			1	1	
Date of first delivery Number installed to date OMMENTS  January 1985  January 1985  — Sold by value added dealers in U.S. and	Date of first delivery Number installed to date OMMENTS  January 1985  — Sold by value added dealers in U.S. and					
Date of first delivery Number installed to date OMMENTS  January 1985  January 1985  — Sold by value added dealers in U.S. and	Date of first delivery Number installed to date OMMENTS  January 1985  — Sold by value added dealers in U.S. and					
Date of first delivery Number installed to date OMMENTS  January 1985  January 1985  — Sold by value added dealers in U.S. and	Date of first delivery Number installed to date OMMENTS  January 1985  — Sold by value added dealers in U.S. and	Mo. maintenance of basic configuration	Contact vendor	Contact vendor	Contact vendor	\$210
Number installed to date OMMENTS  — — — — — — — Sold by value added dealers in U.S. and	Number installed to date OMMENTS  — — — — — — — — — Sold by value added dealers in U.S. and		•	I .	•	I ·
OMMENTS Sold by value added dealers in U.S. and	OMMENTS Sold by value added dealers in U.S. and				<u> </u>	
dealers in U.S. and	dealers in U.S. and		1		1	Sold by value added
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STAIN MEMORY   STAIN CAPE   S	12.25.26	MANUFACTURER AND MODEL	MDS Qantel Business Computers System 55	MDS Qantel Business Computers System 58	MDS Qantel Business Computers System 78	Modular Computer Systems Classic CT/15
SAAN MEMORY	1   12   12   13   13   13   13   13	WORD LENGTH	8 hits	8 hits	8 hits	16 hits
13.5MB 2.6GB	258					
16.32	16.22   16.2					
Section   Sect	PRICE RANGE   TARGET MARKET   S25,000-380,000   S50,000-5150,000   S10,000   S31,1500-S19,400   S11,500-S19,400   S11,				I	
## Surface   Business   Business   Business   Business   Scientific/Technical/ Factory/Process Contr.	Part			- '		
2901 bit slice   2901	CPU manufacturer and model   About side			1		Scientific/Technical/
Hardware floating point   Realtime clock or timer   None	Hardware floating point   None   No	CENTRAL PROCESSOR				1
None   Standard   St	Battery backup	CPU manufacturer and model	2901 bit slice	2901 bit slice	2901 bit slice	Proprietary
Satterly taskup	Battery backup	Hardware floating point	None	None	None	Single/double
Standard   Standard   Standard   Standard   Standard   Standard   Standard   T2.4   50	Realtime clock or timer   CPU cyclet time, annoseconds	Battery backup	None	None	None	
CPU cycle time, nanoseconds	CPU cycle time, nanoseconds	Realtime clock or timer	Standard	Standard	Standard	
MIRS	MIRS   Company	CPU cycle time, nanoseconds		72.4	50	_
All N STORAGE	AMN STORAGE			<u> </u>		0.15
Bytes fetched per cycle   1	Bytes fetched per cycle   1					0.10
Memory access, bits/sec.         22.3M bits/sec.         358         358         480           Storage protection.         Standard         Standard<	Memory access. bins/sec.   22.3M bits/sec.   350   350   360   3		1	1	l <sub>R</sub>	12
Screen   Stronge protection   Standard   S	Schedule		22 3M hits/sec	22 3M hits/sec		1_
Standard   Standard	Standard   Standard					490
						1
None	None				1	1
PRUT/OUTPUT CONTROL No. of I/O channels	No. of     Octaments   Sanok bytes/sec.   14   16   16   16   16   16   16   16		,	,	) —···	,
14	14		None	None	None	None
Data transfer rate	Data transfer rate					
COMMUNICATIONS         Unlimited Opt., 38.4K bps         Unlimited Opt., 38.4K bps         Opt., 38.4K bps	DOMMUNICATIONS	No. of I/O channels	T		1	16
COMMUNICATIONS         Unlimited Opt., 38.4K bps         Unlimited Opt., 38.4K bps         Opt., 3740, HASP, RJE         3740, HASP, RJE <td>  DOMMUNICATIONS     Unlimited   Opt., 38.4K bps   Opt., 39.4K bps</td> <td>Data transfer rate</td> <td>830K bytes/sec.</td> <td>830K bytes/sec.</td> <td>1.25M bytes/sec.</td> <td>600K bytes/sec.</td>	DOMMUNICATIONS     Unlimited   Opt., 38.4K bps   Opt., 39.4K bps	Data transfer rate	830K bytes/sec.	830K bytes/sec.	1.25M bytes/sec.	600K bytes/sec.
Max. number of lines         Unlimited         Unlimited         Unlimited         Unlimited         Opt., 38.4 k bps         16         Qpr., 38.4 k bps         Opt., 38.4 k bps	Max. number of lines			1		
Opt., 38.4K bps   Opt., 38.4	Synchronous		Unlimited	Unlimited	Unlimited	16
Asynchronous   Opt., 38.4k bps   3740, HASP, RJE   3740, HASP, R	Asynchronous   Opt., 38.4k bps   Opt., 38.4k bps   Opt., 38.4k bps   Opt., 38.4k bps   Opt., 38.4k bps   Opt., 38.4k bps   Opt., 19.2k b					
Protocols supported   RUE	Protocols supported RJE RJE RJE RJE RJE RJE RJE RJE RJE RJE					
RJE	RJE					
Type of LAN supported RLE terminals emulated 2780/3780 2	Type of LAN supported RLE terminals emulated 2780/3780 2	Frotocois supported		3740, FIASE, NJE	O/40, FIMOF, RUE	1^.25, 2/60/3/60
Bild 3270 emulation   No	Rice terminals emulated   Bild 3270 emulation   No		· -	la	ln	l
IBM 3270 emulation ERIPHERIAL ECUIPMENT Disks supported  Fixed: 45MB-430MB Fixed: 132-264MB, Cart: 13.56MB Fixed: 132-264MB, Cart: 13.56MB Fixed: 132-264MB, Cart: 13.56MB Fixed: 132-264MB, Cart: 13.56MB Fixed: 132-264MB, Cart: 13.56BB Fixed: 1500-3200bpi Fixed: 1500-3200bpi Fixed: 1500-3200bpi Fixed: 1500-3200bpi Fixed: 1500-3200bpi Fixed: 1500-3200bpi Fixed: 1500-3200bpi Fixed: 1500-3200bpi Fixed: 1500-3	IBM 3270 emulation ERIPHERALE CBUIPMENT Disks supported  Fixed: 45MB-430MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-430MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45MB-450MB Fixed: 45			I.	1	
ERIPHERAL EQUIPMENT Disks supported  Fixed: 45MB-430MB  Fixed: 45MB-440 lpm  None  Rone  Rone  Fixed: 45MB-440 lpm  None  Rone  Fixed: 45MB-440 lpm  None  Fix	FERIPHERAL ECUIPMENT Disks supported  Fixed: 45MB-430MB  Fixed: 45MB-440 pothologht  Fixed: 45MB-440 pothologht  Fixed: 45MB-440 pothologht  Fixed					1
Disks supported  Fixed: 45MB-430MB  Fixed: 45MB-440 ipm  None  None  Fixed: 45MB-430MB  Fixed: 45MB-440 ipm  None  Fixed: 45MB-440 ipm  None  Fixed: 45MB-440 ipm  None  Fixed: 45MB-440 ipm  None  Fixed: 45MB-440 ipm  None  Fixed: 45MB-440 ip	Disks supported  Fixed: 45MB-430MB  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None  Fixed: 45MB-440 pm  None		No	No	Yes	No
Serial printers Letter-quality printers Letter-quality printers Letter-quality printers Line printers South printers Letter-quality printers Line printers None Nonimpact printers None None None None None None None None	Serial printers Letter-quality printers Letter-quality printers Line printers South printers Line printers South printers Line printers None Nonimpact printers None Nonimpact printers None None None None None None None Streaming tape drives Streaming: 60MB 2.6 Diskette  2.6 Diskett	PERIPHERAL EQUIPMENT				1
Letter-quality printers Lice printers Nonimpact printers Nonimpact printers Nonimpact printers Nonimpact printers None None None None None None None None	Letter-quality printers Line printers Nonimpact printers Nonimpact printers Nonimpact printers None None None None None None None None	• •				13.5MB, Winchester: 20M
Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/carridge tape drives Other peripherals supported  Macro Corpilers  Operating system name Operating system management system Principal industry application Other packages  RiCING & AVAILABILITY Basic system configuration Other packages  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mone  300-1000 lpm None None None None None None None None	Line printers Nonimpact printers Reel-to-reel tape drives Streaming tape drives Cassette/cartridge tape drives Other peripherals supported  Departing system name Operating system name Operating system name Principal industry application Other packages  PRICING & AVAILABILITY Basic system configuration Other packages  Determination Oth		1			
None None None None None Streaming tape drives Streaming tape drives Cassette/cartridge tape drives/cassette/cartridge tape drives/cassette/	None None None None None None None None	Letter-quality printers				None
Reel-tor-eel tape drives Streaming tape drives Streaming tape drives Casette/cartridge tape drives Cher peripherals supported  Description of the peripheral supported of the peripheral support of the peripheral support of the peripheral supported of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of the peripheral support of t	None   Streaming tape drives   Streaming tape drives   Streaming tape drives   Streaming tape drives   Streaming tape drives   Streaming tape drives   Streaming: 60MB   Str	Line printers	300-1000 lpm	300-1000 lpm	300-1000 lpm	300-1000 ipm
Streaming tape drives Cassette / carrindge tape drives Cassette / carrindge tape drives Cassette / carrindge tape drives Compreherpels supported  Compreherpels supported  Compreherpels supported  Compreher streaming services Compilers  Compil	Streaming tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Other peripherals supported 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.6 Diskette 2.7 Diskette 2.6 Diskette 2.7 Diskette 2.7 Diskette 2.8 Diskette 3.8 Disket	Nonimpact printers	None	None	None	<del> </del>
Cassette/cartridge tape drives Other peripherals supported  2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  None  Macro Old Basic, Cobol  Old	Cassette/cartridge tape drives Other peripherals supported  2.6 Diskette  2.6 Diskette  2.6 Diskette  3.6 Diskette	Reel-to-reel tape drives	None	None	None	75ips; 800/1600 bpi
Cassette/cartridge tape drives Other peripherals supported  2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  Streaming: 60MB 2.6 Diskette  None  Macro Old Basic, Cobol  Old	Cassette/cartridge tape drives Other peripherals supported  2.6 Diskette  2.6 Diskette  2.6 Diskette  3.6 Diskette	Streaming tape drives	25-100 ips; 1600-3200bpi	25-100 ips; 1600-3200bpi	25-100 ips; 1600-3200bpi	
Other peripherals supported  2.6 Diskette  2.6 Diskette  2.6 Diskette  2.6 Diskette  2.6 Diskette  2.6 Diskette  Data capture terminal  Data capture terminal  Assembler, Macro OIC Basic, Cobol  OIC Basic, Obol  OIC Basic  OIC B	Other peripherals supported  2.6 Diskette  2.6 Diskette  2.6 Diskette  2.6 Diskette  2.6 Diskette  2.6 Diskette  Data capture terminal  Assembler, Macro OIC Basic, Cobol  OIC Basic, Cobol  Operating system name Operating system implemented in firmware Database management system Principal industry application Other packages  PRICING & AVAILABILITY Basic system configuration and price  PRICING & AVAILABILITY Basic system configuration Data capture terminal  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  MAX IV Realtime Partially None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS Best/AOS Multitasking Partially None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS Best/AOS Best/AOS Best/AOS Multitasking Partially None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS Be	Cassette/cartridge tape drives	Streaming: 60MB	Streaming: 60MB	Streaming: 60MB	
OFTWARE Assembler Compilers  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Max IV  Realtime Partially None Maunf., retail, hotel, sports, transportation Spread sheet, word processing  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date OMMENTS  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Matro OIC Basic, Cobol  Multitasking Partially None  Maunf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— S27,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date OID Walue added dealers in U.S. and  Macro OIC Basic, Cobol  Matro Multitasking Partially None  Maunf., retail, hotel, sports, transportation Spread sheet, word processing  Poreasheet, word processing  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— S27,950  S425 February 1986  — Sold by value added dealers in U.S. and  OID Walue added dealers in U.S. and	Assembler Compilers  Macro OIC Basic, Cobol OIC Basic B					
Assembler Compilers  Macro CollC Basic, Cobol  Macro ClC Basic, Cobol  Maltitasking Partially None  Maltitasking Partially None None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  Set A950  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$211  Best/AOS— Sold by value added dealers in U.S. and dealers in U.S. and	Assembler Compilers  Macro OIC Basic, Cobol  Derating system name Operating system implemented in firmware Database management system Other packages  PRICING & AVAILABILITY Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Max IV  Macro OIC Basic, Cobol  Max IV  Malutitasking Partially None  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, '\u00ed' streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  Sold by value added dealers in U.S. and  Macro OIC Basic, Cobol  Max IV  Mautitasking Partially None  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  Multitasking Partially Partially None  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$425  February 1986  — — — — — — — — — — — — — — — — — —	Cirio. ponpriorato dapportos	a.e blokette			Data captars terrimia
Assembler Compilers  Macro CollC Basic, Cobol  Macro ClC Basic, Cobol  Maltitasking Partially None  Maltitasking Partially None None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  Set A950  More Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$211  Best/AOS— Sold by value added dealers in U.S. and dealers in U.S. and	Assembler Compilers  Macro OIC Basic, Cobol  Derating system name Operating system implemented in firmware Database management system Other packages  PRICING & AVAILABILITY Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Macro OIC Basic, Cobol  Max IV  Macro OIC Basic, Cobol  Max IV  Malutitasking Partially None  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, '\u00ed' streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  Sold by value added dealers in U.S. and  Macro OIC Basic, Cobol  Max IV  Mautitasking Partially None  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  Multitasking Partially Partially None  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$425  February 1986  — — — — — — — — — — — — — — — — — —	SOFTWARE				
Compilers  QIC Basic, Cobol  QIC Basic, Cobol  QIC Basic, Cobol  QIC Basic, Cobol  QIC Basic, Cobol  QIC Basic, Cobol  QIC Basic, Cobol  QIC Basic, Cobol  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  Cobol, Fortran, Pascal, Coral 66  MAX IV  Realtime  Partially  None  Manuf., retail, hotel, sports, transportation  Spread sheet, word processing  RICING & AVAILABILITY  Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  Mo. maintenance of basic configuration  Date of first delivery  Number installed to date  Cobol, Fortran, Pascal, Cobol  Multitasking Partially None  Multitasking Partially None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  Set/AOS— \$64,950  CPU, 512KB memory, 20MB disk, printer, 653KB diskette— \$20,000  Sold by value added dealers in U.S. and dealers in U.S. and dealers in U.S. and	Compilers  Olc Basic, Cobol  Olc Basic, Cobol  Olc Basic, Cobol  Olc Basic, Cobol  Olc Basic, Cobol  Cobol, Fortran, Pascal Coral 66  Cobol, Fortran, Pascal Coral 66  Cobol, Fortran, Pascal Coral 66  Cobol, Fortran, Pascal Coral 66  Oberating system name Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating system implemented in firmware Database management system Operating System in U.S. and Operating System in U.S. AOS Multitasking Partially None Manuf., retail, hotel, sports, transportation Spread sheet, word processing Occupation Operating System in U.S. Database management system Operation System in U.S. Individually Partially None Manuf., retail, hotel, sports, transportation Spread sheet, word processing Occupation Spread sheet, word processing Occupation System in U.S. Database management system Operation System in U.S. Database management system Operation System in U.S. Database management system Operation Syste		Macro	Macro	Macro	Assembler Macro
Operating system name Operating system implemented in firmware Operating system implemented in firmsilled in firmuare Operating system operation Operating system implemented in firmware Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating Operating system Operating Operating system Operating Operating system Operating Operating system Operating Operating system Operating Operating system Operating Operating system Operating Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating	Operating system name Operating system implemented in firmware Operating system implemented in firmware Operating system implemented in firmware Partially Operating system implemented in firmware Principal industry application Other packages Other packages  PRICING & AVAILABILITY Basic system configuration and price  Principal industry application Other packages  Principal industry application Other packages  Principal industry application Other packages  Principal industry application Other packages  Pricipal industry app					
Operating system Operating Operating system Operating system Operating system Operating Operating system Operating Operating system Operating Oper	Operating system Operating system implemented in firmware Operating system implemented in firmuare Operating system implemented in firmuare Operating system implemented in firmuare Operating system special, hotel, sports, transportation Operating sperit, printer Operating sperit, printer Operating sperit, printer Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word	Compilers	CIC Basic, Coboi	CIC Basic, Copoi	CIC basic, Copoi	
Operating system Operating Operating system Operating system Operating system Operating Operating system Operating Operating system Operating Oper	Operating system Operating system implemented in firmware Operating system implemented in firmuare Operating system implemented in firmuare Operating system implemented in firmuare Operating system special, hotel, sports, transportation Operating sperit, printer Operating sperit, printer Operating sperit, printer Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word Operation Spread sheet, word	0	D+ (AOC	D/AOS	D/AOC	A A A V IV
Operating system implemented in firmware Database management system Principal industry application Other packages Other packages  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration and price  RICING & Spead sheet, word processing  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  RICING & AVAILABILITY  Basic system configuration and price  CPU, 512K memory, 1/4 four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20MB disk, printer, contr., realtime clock, Best/AOS— \$20,000  Mo. maintenance of basic configuration Date of first delivery  None  Nanuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20MB disk, printer, 653KB diskette— \$20,000  Spread sheet, word processing  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Spread sheet, word processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Spread sheet, word processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Spread sheet, word processing  CPU, 512KB memory, 1/4 four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Spread sheet, word processing  CPU	Operating system implemented in firmware Database management system Principal industry application Other packages Other packages  PRICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  COMMENTS  Partially None Nanuf., retail, hotel, sports, transportation Spread sheet, word processing  Partially None Nanuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  \$105 February 1986 Sold by value added dealers in U.S. and  Partially Nanuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  \$200MB disk, printer, 653KB diskette— \$20,000  \$211 1985 Sold by value added dealers in U.S. and					
Database management system Principal industry application  Other packages  Other packages  RICING & AVAILABILITY Basic system configuration and price  East/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, '%" streaming cartridge tape, 150MB disk drive, Best/AOS— \$232,950  Set/AOS— \$27,950  Sold by value added dealers in U.S. and  None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Set/AOS— \$20,000  Set/AOS— \$20,000  Sold by value added dealers in U.S. and	Database management system Principal industry application  Other packages  PRICING & AVAILABILITY Basic system configuration and price  Mon. maintenance of basic configuration  Date of first delivery Number installed to date  COMMENTS  None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  PRICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  Mo. maintenance of basic configuration Date of first delivery None Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  Set/AOS— \$27,950  Set/AOS— \$425 February 1986 February 1986 Sold by value added dealers in U.S. and  Sold by value added dealers in U.S. and					
Principal industry application Other packages  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  RICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  COMMENTS  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, ¼" cPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986  Sold by value added dealers in U.S. and  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  FOU, 512KB memory, 20MB disk, printer, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  \$20,000  February 1986  Sold by value added dealers in U.S. and	Principal industry application Other packages  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  PRICING & AVAILABILITY Basic system configuration and price  Best/AOS— \$32,950  Mon. maintenance of basic configuration Date of first delivery Number installed to date  COMMENTS  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 512K memory, ¼" Streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Sold by value added dealers in U.S. and  Manuf., retail, hotel, sports, transportation Spread sheet, word processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$425 February 1986 February 1986 Sold by value added dealers in U.S. and  Sold by value added dealers in U.S. and				1	
Sports, transportation Spread sheet, word processing sports s	Sports, transportation Spread sheet, word processing Spread sheet,			,		
Other packages  Spread sheet, word processing  RICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Spread sheet, word processing  CPU, 1MB memory, CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986 February 1986 February 1986 Spread sheet, word processing  CPU, 512KB memory, 20MB disk, printer, 653KB diskette— \$20,000  Sold by value added dealers in U.S. and  Spread sheet, word processing  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$64,950  \$20,000  \$20,000  Sold by value added dealers in U.S. and	Other packages  Spread sheet, word processing  RICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  CMMENTS  Spread sheet, word processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986 February 1986 February 1986 February 1986 Spread sheet, word processing  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  \$105 February 1986	Principal industry application				Factory automation
RICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, 1/4" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  CMMMENTS  CPU, 1MB memory, CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986 February 1986 Sold by value added dealers in U.S. and  processing  processing  Procesing  Procesing  Processing  Procesing  Pour-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  \$20,000  \$21  \$21  \$21  \$21  \$21  \$21  \$32  \$32	PRICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986				sports, transportation	
Processing  Procesing	PRICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Processing  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986 Febr	Other packages	Spread sheet, word		Spread sheet, word	None
RICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Sold by value added dealers in U.S. and  CPU, 512KB memory, 20MB disk, printer, 653KB diskette— \$20,000  \$290 February 1986 February 1986  Sold by value added dealers in U.S. and  CPU, 2MB memory, 20MB disk, printer, 653KB diskette— \$20,000  \$20,000	RICING & AVAILABILITY Basic system configuration and price  CPU, 512K memory, ¼" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986 February 1986 February 1986 February 1986 Sold by value added dealers in U.S. and  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000  \$20MB disk, printer, 653KB diskette— \$20,000	· -				
Basic system configuration and price  CPU, 512K memory, 1/4" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, 512K memory, 1/4" streaming cartridge tape, 150MB disk drive, Best/AOS— \$105	Basic system configuration and price  CPU, 512K memory, 1/2" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  COMMENTS  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Set/AOS— \$27,950  \$105 February 1986 February 1986 February 1986 February 1986 Fold by value added dealers in U.S. and  Sold by value added dealers in U.S. and		_	1	1	1
Basic system configuration and price  CPU, 512K memory, 1/4" streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  \$105 February 1986 February 1986 February 1986 February 1986 Following installed to date OMMENTS  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$425 February 1986 February 1986 February 1986 February 1986 February 1986 February 1986 Following installed to date OMMENTS  Sold by value added dealers in U.S. and  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$425 February 1986 Febru	Basic system configuration and price  CPU, 512K memory, 1/2 streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  COMMENTS  CPU, 1MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$27,950  CPU, 2MB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  CPU, 512KB memory, four-channel video network contr., printer contr., realtime clock, Best/AOS— \$20,000  Set/AOS— \$27,950  \$105 February 1986 February 1986 February 1986 February 1986 Fold by value added dealers in U.S. and  Sold by value added dealers in U.S. and	PRICING & AVAILABILITY				
streaming cartridge tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  \$105 February 1986 February 198	streaming cartridge tape, 150MB disk drive, Best/AOS— \$2,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Streaming cartridge tape, 150MB disk drive, Best/AOS— \$27,950  Streaming cartridge tape, 150MB disk drive, network contr., printer contr., realtime clock, Best/AOS— \$20,000  \$20,000  \$20,000  \$20,000  \$20,000  \$2105  February 1986  February 1986  Sold by value added dealers in U.S. and  \$250  February 1986  Sold by value added dealers in U.S. and		CPU, 512K memory. ¼"	CPU, 1MB memory.	CPU, 2MB memory.	CPU, 512KB memory.
tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Tape, 150MB disk drive, Best/AOS— \$27,950  Sold by value added dealers in U.S. and  network contr., printer contr.	tape, 150MB disk drive, Best/AOS— \$32,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Tape, 150MB disk drive, Best/AOS— \$27,950  \$105 February 1986 February 1986 February 1986 February 1986 Sold by value added dealers in U.S. and  Tape, 150MB disk drive, Best/AOS— \$20,000  \$20,000  \$211 February 1986	,g p.,				
Best/AOS— \$32,950  Contr., realtime clock, Best/AOS— \$27,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Sold by value added dealers in U.S. and  Contr., realtime clock, Best/AOS— \$425 February 1986 February 1986 February 1986 February 1986 Sold by value added dealers in U.S. and  Sold by value added dealers in U.S. and	Best/AOS— \$32,950  Contr., realtime clock, Best/AOS— \$27,950  Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Sold by value added dealers in U.S. and  Contr., realtime clock, Best/AOS— \$425 February 1986				1	
Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Sold by value added dealers in U.S. and  Sold by value added dealers in U.S. and  Best/AOS— \$64,950  \$211 February 1986 February 1986 February 1986 Sold by value added dealers in U.S. and  Best/AOS— \$64,950  \$211 February 1986 February 1986 Sold by value added dealers in U.S. and	Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Sold by value added dealers in U.S. and  Sold by value added dealers in U.S. and  Best/AOS— \$425 February 1986 February 1986 February 1986 Sold by value added dealers in U.S. and  Best/AOS— \$425 February 1986 February 1986 Sold by value added dealers in U.S. and					
Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Sold by value added dealers in U.S. and  \$27,950  \$64,950  \$211  February 1986 February 1986 February 1986  — Sold by value added dealers in U.S. and  \$200  \$105 February 1986 February 1986 February 1986  — Sold by value added dealers in U.S. and	Mo. maintenance of basic configuration Date of first delivery Number installed to date COMMENTS  Note of first delivery Sold by value added dealers in U.S. and  \$27,950  \$425 February 1986 February					ψ20,000
Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and	Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Sold by value added dealers in U.S. and  \$290 February 1986		φ <b>3</b> ∠, <del>9</del> 5U			1
Date of first delivery Number installed to date COMMENTS Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Self-bruary 1986 February 1986	Date of first delivery Number installed to date COMMENTS  Description of the delivery of the delivery shows a composition of the delivery of the delivery shows a composition		1	Ja27,95U	<b>⊅</b> 04,950	1
Date of first delivery Number installed to date COMMENTS Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Self-bruary 1986 February 1986 Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and	Date of first delivery Number installed to date COMMENTS  Description of the delivery 1986 Sold by value added dealers in U.S. and  February 1986 Sold by value added dealers in U.S. and  February 1986 Sold by value added dealers in U.S. and  February 1986 Sold by value added dealers in U.S. and					
Date of first delivery Number installed to date COMMENTS Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Self-bruary 1986 February 1986 Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and	Date of first delivery Number installed to date COMMENTS  Description of the delivery 1986  Sold by value added dealers in U.S. and  February 1986  Sold by value added dealers in U.S. and  February 1986  Sold by value added dealers in U.S. and  February 1986  Sold by value added dealers in U.S. and	Mo. maintenance of basic configuration	\$290	\$105	\$425	\$211
Number installed to date COMMENTS Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and	Number installed to date  COMMENTS  Sold by value added dealers in U.S. and  Sold by value added dealers in U.S. and  Sold by value added dealers in U.S. and	•	l ·	N T		
COMMENTS Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and	COMMENTS Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and Sold by value added dealers in U.S. and					1
dealers in U.S. and dealers in U.S. and dealers in U.S. and	dealers in U.S. and dealers in U.S. and dealers in U.S. and		Sold by value added	Sold by value added	Sold by value added	
		OHINITIA				
Internationally Internationally Internationally	Internationally Internationally Internationally			1	•	1
			Internationally	internationally	internationally	1

MANUFACTURER AND MODEL	Modular Computer Systems Classic II/15	Modular Computer Systems Classic II/25	Modular Computer Systems Classic II/45	Modular Computer Systems Classic II/75
VORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	512KB-2MB	512KB-1MB	512KB-2MB	1MB-4MB
DISK STORAGE CAPACITY	13MB-1.2GB	13MB-1.2GB	13MB-1.2GB	13MB-1.2GB
IO. WORKSTATIONS SUPPORTED	16	64	128	256+
PRICE RANGE	\$16,000-\$45,000	\$24,000-\$70,000	\$42,000-\$80,000	\$49,000-\$110,000
ARGET MARKET	Scientific/Technical/	Scientific/Technical/	Scientific/Technical/	Scientific/Technical/
	Factory/Process Contr.	Factory/Process Contr.	Factory/Process Contr.	Factory/Process Contr.
ENTRAL PROCESSOR		,,	,,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
CPU manufacturer and model	Proprietary	Proprietary	Proprietary	Proprietary
Hardware floating point	Single/double	Single/double	Single/double	Single/double
Battery backup	Optional	Optional	Optional	Optional
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	<del></del>	<del> </del>	<u> </u>	<u> </u>
MIPS	<b> </b>		<u> </u>	<b> </b>
IAIN STORAGE				
Bytes fetched per cycle	2	2	2	2
Memory access, bits/sec.	l—	<u> </u> —		<b> -</b> -
Cycle/access time, nanoseconds	480	250	250	125
Storage protection	Standard	Standard	Standard	Standard
ncrement size, bytes	512K	512K	512K	512K
Cache memory, bytes	None	None	None	None
IPUT/OUTPUT CONTROL	L			1
No. of I/O channels	16	16	48	64
Data transfer rate	600K bytes/sec.	1M bytes/sec.	5M bytes/sec.	8M bytes/sec.
OMMUNICATIONS	l _			
Max. number of lines	16	32	256	256
Synchronous	Opt., 9.6K bps	Standard	Standard	Opt., 25K bps
Asynchronous	Opt., 19.2K bps	Standard	Standard	Opt., 19.2K bps
Protocols supported	X.25, 2780/3780	X.25, 2780/3780	X.25, 2780/3780	X.25, 2780/3780
Tune of I AN companied	None	Name	News	1
Type of LAN supported RJE terminals emulated	None	None	None	None
IBM 3270 emulation	2780/3780 No	2780/3780	2780/3780	2780/3780
ERIPHERAL EQUIPMENT	INO	No	No	No
Disks supported	Fixed: 132-264MB, Cart:	Fixed: 132-264MB, Cart.:	Fixed: 132-264MB, Cart:	Fired 122 26484D Com
Disks supported	13.5MB, Winchester: 20MB	13.5, Winchester: 20.2MB	13.5MB, Winch. 20.2MB	Fixed: 132-264MB, Cart:
Serial printers	64-440 lpm	64-440 lpm	64-440 lpm	13.5MB, Winch: 20.2MB
Letter-quality printers	None	None	None	64-440 lpm None
Line printers	300-1000 lpm	300-1000 lpm	300-1000 lpm	300-1000 lpm
Nonimpact printers		300-1000 ipini	300-1000 ipili	300-1000 ipini
Reel-to-reel tape drives	75ips; 800/1600 bpi	75ips; 800/1600 bpi	75ips; 800/1600 bpi	75 ips; 800/1600 bpi
Streaming tape drives	100/25 ips; 1600 bpi	100/25 ips; 1600 bpi	100/25 ips; 1600 bpi	100/25 ips; 1600 bpi
Cassette/cartridge tape drives	None	None	None	None
Other peripherals supported	Data capture terminal	Data capture terminal	Data capture terminal	Data capture terminal
			Jana daptero torrima	Data captaro torrimar
OFTWARE				
Assembler	Assembler, Macro	Assembler, Macro	Assembler, Macro	Assembler, Macro
Compilers	Cobol, Fortran, Pascal,	Cobol, Fortran, Pascal,	Cobol, Fortran, Pascal,	Cobol, Fortran, Pascal,
	Coral 66	Coral 66	Coral 66	Coral 66
0				
Operating system name			I=	I
Operating system	Realtime	Realtime	Realtime	Realtime
Operating system implemented in firmware		Partially	Partially	Partially
Database management system	Infinity	Infinity	Infinity	Infinity
Principal industry application	Factory automation	Factory automation	Factory automation	Factory automation
Other packages	None	None	None	None
other publicages	l tone	Thomas and the second s	None	Notice
RICING & AVAILABILITY				
Basic system configuration and price	CPU, 512KB memory,	CPU, 1MB memory, 67MB	CPU, 1MB memory, 67MB	CPU, 1MB memory, 67M
	67MB disk, 300 lpm	disk, 300 lpm printer	disk, 300 lpm line	disk, 300 lpm printer,
	printer—\$32,200	<b>—</b> \$48,445	printer, CRT—\$66,595	CRT-\$115,000
		1	1	
		1	1	
				1
Man manimatura (1 ) = -	1,040	10400		
Mo. maintenance of basic configuration	\$316	\$489	\$690	\$969
Date of first delivery	January 1984	May 1982	May 1982	May 1982
Number installed to date	250	500+	300+	300+
OMMENTS				
	ł	i	l .	1

MANUFACTURER AND MODEL	Nixdorf Computer Corporation 8850/35	Nixdorf Computer Corporation 8850/45	Nixdorf Computer Corporation 8850/55	Nixdorf Computer Corporation 8850/65
	10.11	16 bits	40 1.2.	10 his-
VORD LENGTH	16 bits		16 bits	16 bits
IAIN MEMORY	128KB	128KB	128KB	128KB
ISK STORAGE CAPACITY	Up to 66MB	Up to 132MB	Up to 528MB	Up to 528MB
O. WORKSTATIONS SUPPORTED	9	16	32	32
RICE RANGE		<del></del>	<del></del>	
ARGET MARKET	Business	Business	Business	Business
ENTRAL PROCESSOR				
CPU manufacturer and model	<b> </b>	<del> </del>	l <del></del>	
lardware floating point			<del></del>	l—
Battery backup	Standard	Standard	Standard	Standard
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	1100	700	450	375
MIPS	_			
AIN STORAGE	•			
	2	2	2	2
sytes fetched per cycle	2	2	2	2
flemory access, bits/sec.		400	400	100
cycle/access time, nanoseconds	400	400	400	400
Storage protection		I	<del>_</del>	I
ncrement size, bytes	Not applicable	Not applicable	Not applicable	Not applicable
ache memory, bytes	None	None	None	2KB
PUT/OUTPUT CONTROL				1
lo. of I/O channels	9	16	32	32
Data transfer rate	<b> </b>		1—	· ·
OMMUNICATIONS	1			1
Max. number of lines	2	2	2	2
	Up to 19.2K bps			
Synchronous Asynchronous	טף נט ופ.בו טףפ			
•	0700 (0700 0070 (0071	2700/2700 2270/2271	2700/2700 2270/2271	2790/2790 2270/2271
Protocols supported	2780/3780, 3270/3271, 3777-3, 3274, 3276	2780/3780, 3270/3271, 3777-3, 3274, 3276	2780/3780, 3270/3271, 3777-3, 3274, 3276	2780/3780, 3270/3271  3777-3, 3274, 3276
Type of LAN supported	<b>_</b>		l <u> </u>	<u>                                     </u>
RJE terminals emulated	Hasp, SDLC, 2780/3780	Hasp, SDLC, 2780/3780	HASP, SDLC, 2780/3780	HASP, SDLC, 2780/3780
BM 3270 emulation	Yes	Yes	Yes	Yes
ERIPHERAL EQUIPMENT	1.55	1	1	l ·
Disks supported	Fixed: 8MB, 32MB, 66MB	Fixed: 8MB, 32MB, 66MB,	Fixed: up to 528MB	Fixed: up to 528MB
		132MB		
Serial printers	150 cps	150 cps	150 cps	150 cps
Letter-quality printers	40 cps	40 cps	40 cps	40 cps
Line printers	300/600/900 lpm	300/600/900 lpm	300/600/900 lpm	300/600/900 lpm
Nonimpact printers				_
Reel-to-reel tape drives	45 ips 9/800, 9/1600			
Streaming tape drives		_	l '	l ·
Cassette/cartridge tape drives	<u> </u>		l	
Other peripherals supported				
OFTWARE				
OF I WARE Assembler	Editor	Editor	Editor	Editor
	Editor	Editor	Editor	Editor
Compilers			_	
Operating system name Operating system	Virtual multiuser batch	Virtual multiuser batch	—   Virtual/multiuser/batch	
Operating system Operating system implemented in firmware				
	1	Integrated in once and	Integrated in once and	Integrated in ones are
Database management system	Integrated in oper. sys.			
Principal industry application	Banking, service bureau,	Banking, service bureau,	Banking, service bureau,	Banking, service bureau,
	insurance	insurance	insurance	insurance
Other packages	Accounts receivable,	Accounts receivable,	Accounts receivable,	Accounts receivable,
	payroll, order entry,	payroll, order entry,	payroll, order entry	payroll, order entry
	government	government	1	
RICING & AVAILABILITY			1	l
Basic system configuration and price	CPU, 9/1600 bpi auto			
, -	load tape, 8MB disk,	load tape, 32MB disk,	load tape, 66MB disk,	load tape, 132MB disk,
	150 cps printer,	300 lpm printer,	300 lpm printer,	600 Ipm printer,
	communications, one	communications, eight	communications, 16	communications, 16
	terminal—	terminals—	terminals—\$105,000	terminals—\$117,000
	\$36,850	\$74,470	-ψ100,000	15/11midio   \$177,000
	\$393	\$644	\$644	\$644
Mo maintenance of basic configuration	1	<u> </u>	1==	1
		1		l
Date of first delivery			ı —	I
Mo. maintenance of basic configuration Date of first delivery Number installed to date	This system year	This quetom was	This evetom was	This evetom was
Date of first delivery Number installed to date	This system was	This system was	This system was	This system was
Date of first delivery Number installed to date	This system was formerly the 600 Series.	This system was formerly the 600 Series.	This system was formerly the 600 Series.	This system was formerly the 600 Series.
Date of first delivery Number installed to date				
Date of first delivery Number installed to date				
Pate of first delivery lumber installed to date				
Date of first delivery				

		ı	I	
MANUFACTURER AND MODEL	Nixdorf Computer Corporation 8870/25	Nixdorf Computer Corporation 8870/45	Nixdorf Computer Corporation 8870/75	Norsk Data N.A., Inc. ND-100 Satellite
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	256KB-1024KB	256KB-1024KB	512KB-1024KB	1MB-2MB
DISK STORAGE CAPACITY	42MB-132MB	66MB-264MB	396MB-1GB	28MB-75MB
	10	16	24	1
NO. WORKSTATIONS SUPPORTED	1 ' -	1 -		9
PRICE RANGE	\$20,000-35,000	\$30,000-45,000	\$60,000-\$80,000	\$17,500-\$35,000
TARGET MARKET	Business	Business	Business	General purpose
CENTRAL BROCECCOR		1		
CENTRAL PROCESSOR	N. 1	All and and	Ar. J. C	ND 100
CPU manufacturer and model	Nixdorf	Nixdorf	Nixdorf	ND-100
Hardware floating point			<del>-</del>	Double
Battery backup	Standard	Standard	Standard	Standard
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	300	300	150	180
MIPS	l—	<b> </b>		0.22
MAIN STORAGE				
Bytes fetched per cycle	ļ <del> —</del>		<u> </u>	2
Memory access, bits/sec.			<u> </u>	_
Cycle/access time, nanoseconds	500	400/350	400/350	180
Storage protection	Standard		I_ '	Standard
Increment size, bytes	256KB	256KB	512KB	1MB
Cache memory, bytes	None	None	None	None
INPUT/OUTPUT CONTROL	1	1	110116	140116
	8	12	24	3
No. of I/O channels	1 =		1	1 7
Data transfer rate	9.6K bps	<del> </del>		2.1M bytes/sec.
COMMUNICATIONS	ا	١.	ا	ا
Max. number of lines	2	2	2	9
Synchronous	Opt., 9.6K bps	Opt., 9.6K bps	Opt., 9.6K bps	Optional
Asynchronous	Std., 9.6K bps	Std., 9.6K bps	Std., 9.6K bps	Std., 9.6K bps
Protocols supported	2780/3780	2780/3780	2780/3780	2780/3780, SDLC,
				HASP, SIVA, BSC
Type of LAN supported	l <u> </u>	I—		Ethernet, HDLC
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780, HASP
IBM 3270 emulation	No	No	No	Yes
PERIPHERAL EQUIPMENT		1		
Disks supported	Fixed: up to 132MB	Fixed: up to 264MB	Fixed: 264MB	Fixed and removable: 70
bisks supported	I ixed. up to 1521415	Tixed. up to 2041VID	Tixed. 204IVID	MB, 140MB, 288MB, 450M
Carial maintana	100/150 cps	100/150 cps	100/150 cps	80-300 cps
Serial printers				
Letter-quality printers	45 cps	45 cps	45 cps	38/55 cps
Line printers	300/600 lpm	300/600 lpm	300/600 lpm	600-1000 lpm
Nonimpact printers	-		<del></del>	
Reel-to-reel tape drives	None	None	1600/3200 bpi	125 ips; 1600/6250
Streaming tape drives	None	1600/3200 SMI	None	90 ips, start/stop
Cassette/cartridge tape drives	45MB SMC	None	None	90 ips
Other peripherals supported	Diskette	1		Card reader
, , , , , , , , , , , , , , , , , , , ,				
SOFTWARE		i	1	
Assembler	I—		I—	Macro Assembler
Compilers	Basic, Interpreter	Basic, Interpreter	Basic, Interpreter	Cobol, Fortran, ADA,
		1		Pascal, APL, C, Simula
				, , 0, 0, 1, 1, 1
Operating system name	l	İ	l	Sintran III
Operating system name Operating system	Realtime, multitasking	Realtime, multitasking	Realtime, multitasking	Realtime, batch, timesh
		No	No	Partially
Operating system implemented in firmware	1'	I <u></u>		
Database management system	Manufacturing distri	Manufacturing	Manufacturing	Sibas
Principal industry application	Manufacturing, distri-	Manufacturing, distri-	Manufacturing, distri-	General purpose
	bution, banking	bution, banking	bution, banking	
Other packages	Financial management,	Financial management,	Financial management,	Office automation
	mortgage banking	mortgage banking	mortgage banking	
PRICING & AVAILABILITY	1			l
Basic system configuration and price	CPU, 256KB memory,	CPU, 256KB memory,	CPU, 512KB memory,	ND-100 CPU, 3 terminal
•	32MB disk, VDT printer—	66MB disk, 100 cps	396MB disk, 100 cps	interfaces, 1MB memory,
	\$19,300	printer, VDT—	printer, VDT	14" 1.2MB diskette
		\$31,000	\$50,000	drives, 28MB fixed
				disk drive—
	l			\$17,500
	i		1	Ψ17,500
			1	
	6100	6271	#272	
Mo. maintenance of basic configuration	\$199	\$271	\$373	
Date of first delivery	1985	1985	1985	<del>-</del>
Number installed to date	<b> </b>	I	<del>  -</del>	I—
COMMENTS	<b>\</b>	1	1	1
1		1		
1	Ī	1	1	I
	l .		1	

MANUFACTURER AND MODEL	Norsk Data N.A., Inc. ND-100 Compact	Norsk Data N.A., Inc. ND-100/CX	Northern Telecom Inc. 503	Northern Telecom Inc. 565
NORD LENGTH	16 bits	16 bits	8 bits	8 bits
WORD LENGTH	1MB-14MB	1MB-16MB	256KB	256KB-512KB
MAIN MEMORY				•
DISK STORAGE CAPACITY	28MB-7.2GB	28MB-7.2GB	1.6MB-10.8MB	22MB
NO. WORKSTATIONS SUPPORTED	48	256	1	1-4
PRICE RANGE	\$30,000-\$49,000	\$77,500	From \$5,250	\$15,000-\$50,000
TARGET MARKET	General purpose	General purpose		Office Automation
CENTRAL PROCESSOR				
CPU manufacturer and model	ND 100	ND-100/CX	Intel 8085	Intel 8085
Hardware floating point	Double	Double	None	None
Battery backup	Standard	Standard	None	None
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	180	180	286	167
MIPS	0.22	0.32		
	0.22	0.32		
MAIN STORAGE	0			
Bytes fetched per cycle	2	2		<del>-</del>
Memory access, bits/sec.		—	<del></del>	<del></del>
Cycle/access time, nanoseconds	180	180		<del> </del>
Storage protection	Standard	Standard	None	None
Increment size, bytes	500KB, 1MB, 2MB	500KB, 1MB, 2MB	Not applicable	128K
Cache memory, bytes	Opt., 2KB	2KB	None	None
	Opt., Zivo		1	1
NPUT/OUTPUT CONTROL	3	9		4
No. of I/O channels	3	3	<del></del>	4
Data transfer rate	2.1M bytes/sec.	2.1M bytes/sec.	<del></del>	
COMMUNICATIONS				
Max. number of lines	—	256	2	6
Synchronous	Optional	Optional	Opt., 9.6K bps	Opt, 9.6K bps
Asynchronous	Std., 9.6K bps	Std., 9.6K bps	Opt., 9.6K bps	Opt., 9.6K bps
Protocols supported	2780/3780, SDLC,	2780/3780, SDLC,	2770/2780/3780.	2770/2780/3780, 3774
1 lotocols supported	HASP, SIVA, BSC	HASP, SIVA, BSC	TC3500, SNA, SDLC	3270, 3274, SDLC, HAS
- c.a.				Omnilink
Type of LAN supported	Ethernet, HDLC	Ethernet, HDLC	None	
RJE terminals emulated	2780/3780, HASP	2780/3780, HASP	2780/3780, HASP	2780/3780, CDC, UT200
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Fixed and removable: 70	Fixed and removable: 70	Diskette: 0.8MB	Fixed: 22MB Winchester
· ·	MB, 140MB, 288MB, 450MB	MB, 140MB, 288MB, 450MB	Winchester: 10MB	
Serial printers	80-300 cps	80-300 cps	120-180 cps	120 cps
Letter-quality printers	38/55 cps	38/55 cps	40 cps	40 cps
	600-1000 lpm	600-1000 lpm	300 lpm	300/600/1000 lpm
Line printers	000-1000 ipin	000-1000 ipiii		300/000/1000 ipin
Nonimpact printers		105: 1000/0050		000 /4000 hui
Reel-to-reel tape drives	125 ips; 1600/6250	125 ips; 1600/6250	None	800/1600 bpi
Streaming tape drives	90 ips, start/stop	90 ips, start/stop	None	15MB
Cassette/cartridge tape drives	90 ips	90 ips	None	1MB per minute
Other peripherals supported	Card reader	Card reader	None	None
OCETIMA DE				
SOFTWARE Assembler	Macro Assembler	Macro Assembler	Only in CP/M 3.0	Only in CP/M 2.2
		Cobol. Fortran.	ACOBOL3/AL2000,	ACOBOL3/AL2000,
Compilers	Cobol, Fortran,			
	Pascal, APL, C, Simula	Pascal, APL, C, Simula	CP/M 3.0	CP/M 2.2
	Si III	Simura III		
Operating system name	Sintran III	Sintran III	I	1
Operating system	Realtime, batch, timesh	Realtime, batch, timesh	Multitasking	Multitasking-NT 4.1
Operating system implemented in firmware		Partially	No	No
Database management system	Sibas	Sibas	dBASE II using CP/M	dBASE II using CP/M
Principal industry application	General purpose	General purpose		
		•		1
Other packages	Office automation	Office automation	Word processing	Word processing,
Taran pagnagos			(contact vendor for	electronic mail (contact
			add'l applications)	vendor for add'l appli.)
PRICING & AVAILABILITY			add i upprications;	Toridor for add ( appli.)
	ND 100 CDU 184D	ND 100/CV CBU 540KB	256K RAM, 15" CRT,	256K RAM, O/S 4.1,
Basic system configuration and price	ND-100 CPU, 1MB memory,	ND-100/CX CPU, 512KB		
	1.2MB diskette drive,	memory, 1.2MB diskette	CP/M and 2 (.8MB)	memory parity, 22MB
	28MB fixed disk drive,	drive, printer terminal,	diskettes—\$5,250	disk, 15" CRT,
	1 terminal—	terminal interface,		1 cartridge—\$14,950
	\$30,000	20 position rack, disk	1	
	. ,	controller—	1	1
	İ	\$77,500		1
		1,000		
Mo maintenance of basis configuration		l <u> </u>	\$173	\$507
Mo. maintenance of basic configuration	-			1983
Date of first delivery		<del>  -</del>	1981	1
Number installed to date	<b> </b>		Not supplied	Not supplied
COMMENTS			1	1
		L.,	<del></del>	<u></u>

MANUFACTURER AND MODEL	Northern Telecom Inc. 585	Plessey Peripherals Systems 6300/8300 Series	Plessey Peripherals Systems 6600/8600 Series	Point 4 Data Corp. Mark 2
WORD LENGTH	8 bits	16 bits	16 bits	16 bits
MAIN MEMORY	256KB-512KB	256KB-4MB	256KB-4MB	64KB-128KB
	22MB-342MB	20MB-140MB	80MB-160MB	
DISK STORAGE CAPACITY				13MB-86MB
NO. WORKSTATIONS SUPPORTED	16	16	16	/
PRICE RANGE	From \$19,950		_	\$8,995-\$20,000+
TARGET MARKET	Office Automation	OEM/Business	OEM/Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Intel 8085	LSI 11/23-LSI 11/73	LSI 11/23-LSI 11/73	Point 4 Mark 2
Hardware floating point	None	Opt., double	Opt., double	No
Battery backup	None	Optional	Optional	None
Realtime clock or timer	Standard	Optional	Optional	Standard
CPU cycle time, nanoseconds	167	None	None	600
MIPS	1	110110		1000
				-
MAIN STORAGE				
Bytes fetched per cycle	i—	2	2	2
Memory access, bits/sec.	<del>  -</del>		<u> </u>	160M bits/sec.
Cycle/access time, nanoseconds	l—	<del> </del>		400/200
Storage protection	None	None	None	None
Increment size, bytes	128K	256KB	256KB	64K
Cache memory, bytes	None	None	None	None
	1	110110	1.50116	140116
NPUT/OUTPUT CONTROL		2 and 120	120	62
No. of I/O channels	<u> </u>	2 std., 128 opt.	2 std., 128 opt.	63
Data transfer rate	_	512K bytes/sec.	1.2M bytes/sec.	1.67M bytes/sec.
COMMUNICATIONS			1	
Max. number of lines	6	2 std., 64 opt.	2 std., 64 opt.	7
Synchronous	Std., 9.6K bps	Opt., 56K bps	Opt., 56K bps	No
Asynchronous	Std., 9.6K bps	Std., 19.2K bps	Std., 19.2K bps	Std., 9.6K bps
Protocols supported	2770/2780/3780,	X.25, V.28	X.25, V.28	None
Totocola aupported	TC3500, SNA, SDLC	7.20, V.20	7.20, V.20	TAOLIE
			l	1
Type of LAN supported	Omnilink	Ethernet	Ethernet	None
RJE terminals emulated	2780/3780, HASP	None	None	None
IBM 3270 emulation	Yes	No	No	No
PERIPHERAL EQUIPMENT				
Disks supported	Winchester: 22MB	Fixed: 10MB-140MB	Fixed: 80MB-1.2GB	Winchester: 13MB-86MB
	Disk pack: 74.5MB	Cartridge: 20MB	1	
Serial printers	120 cps	20-520 cps	20-520 cps	20-180 cps
Letter-quality printers	40 cps	600 lpm	600 lpm	75 cps
Line printers	300/600/1000 lpm	600 lpm	600 lpm	200-600 lpm
Nonimpact printers	<u> </u>	1200 lpm	1200 lpm	
Reel-to-reel tape drives	800/1600 bpi	25-125 ips	25-125 ips	None
	None	25/75/125 ips		
Streaming tape drives			25/75/125 ips	90 ips; 20MB, 45MB
Cassette/cartridge tape drives	1MB per minute	20MB-45MB	20MB-45MB	14" cartridge, cassette
Other peripherals supported	300 cpm card reader	Diskettes	Diskettes	Diskette, 1MB
SOFTWARE				
Assembler	Only in CP/M 2.2	Macro-II	Macro-II	Assembler
Compilers	ACOBOL3/TAL2000,	Basic, Fortran, Cobol,	Basic, Fortran, Cobol,	Iris Basic, SM Basic
r maja	CP/M 2.2	Pascal, C	Pascal, C	
Operating eveters asset		DOTO DOV DT 11 DOM	DOTO DOV DT 11 DOM	Iria Timoshasia
Operating system name	B. d. state and all all and all all and all all all all all all all all all al	RSTS, RSX, RT-11, DSM,	RSTS, RSX, RT-11, DSM,	Iris Timesharing
Operating system	Multitasking	Realtime, batch, multita	Realtime, batch, multita	Realtime
Operating system implemented in firmware		None	None	No
Database management system	dBASE II using CP/M	<del></del>		SMC Idol
Principal industry application	_	Scientific, general	Scientific, general	General purpose
		purpose	purpose	business,
Other packages	Word processing,	Office automation	Office automation	electronic office,
paonagoo	Electronic mail	3		force application
	LIGOTIONIC INCII			
	1			generator
PRICING & AVAILABILITY			1	1
Basic system configuration and price	256K RAM, O/S 4.1,	LSI-11/23 CPU, 256KB	LSI-11/23 CPU, 256KB	CPU, 64KB memory, 19N
	memory parity, 22MB	memory, 20MB disk,	memory, 80MB disk,	disk, 20MB streaming
	disk, 15" CRT,	1MB diskette, 2 RS-232-C	1MB diskette, 2 RS-232-C	tape, 4 ports—\$8,995
	1 cartridge tape—	ports	ports—	
	\$19,950	\$8,480	\$14,550	j
	-,	1 - 1	1	
Mo. maintenance of basic configuration	\$696	\$120	\$180	Contact vendor
	1981	1	1	1
Date of first delivery		1—		February 1984
Number installed to date	Not supplied			2000
COMMENTS		<b>[</b>		
			1	
				<del></del>

MANUFACTURER AND MODEL				<del> </del>	
Mark 3					
SAMAIN MEMORY   SINKE-128KB   SINKE-258MB	MANUFACTURER AND MODEL				Point 4 Data Corp. Mark 9
SIRK STORAGE CAPACITY   ON WORKSTATIONS SUPPORTED   SIRK STORAGE CAPACITY   ON WORKSTATIONS SUPPORTED   SIRK STORAGE CAPACITY   ON WORKSTATION SUPPORTED   SIRK STORAGE	WORD LENGTH	16 bits	16 bits	16 bits	16 bits
16	MAIN MEMORY	64KB-128KB		128KB	512KB
Standard	DISK STORAGE CAPACITY	35MB-336MB	86MB-258MB	84MB-688MB	84MB-688MB
EMERITAL PROCESSOR   CPU manufacturer and model   CPU cycle time, nanoseconds   CPU cycle time	NO. WORKSTATIONS SUPPORTED	7			
ENTRIAL PROCESSOR CPU manufacturer and model Anteriorare floating point None Basiliams clock or timer CPU cycle time, anneaseconds MIPS ALMIN STORAGE ————————————————————————————————————	PRICE RANGE	\$14,850-\$30,000+	\$21,995-\$35,000	\$28,200-\$100,000+	\$34,200-\$100,000+
CPU manufacturer and model Hardware floating point A Mark 3 No None None Optional Standard St	ARGET MARKET	Business	Business	Business	Business
Hardware floating point	CENTRAL PROCESSOR				
Battery backup   None   Standard   Standar	CPU manufacturer and model	Point 4 Mark 3	Point 4 Mark 4		
Realtime clock or timer   Children   Standard   Stand	Hardware floating point	No			
CPU cycle time, nanoseconds   600	Battery backup				
MIRS   STORAGE   2	Realtime clock or timer				
AM STORAGE   Memory access, bits/sec.   160M bits/sec.		600		400	300
Bytes fetched per cycle   2	MIPS	_	3.5	ļ <del></del>	<del>  -</del>
Memory access.bits/sec.   160M bits/sec.	MAIN STORAGE	_		1_	1_
200/200			1 *		1 -
Storage protection increment size, bytes Cache memory, bytes Will Control Control No. of I/O channels Data transfer rate OMMUNICATIONS OMMUNICATIONS Synchronous Asynchronous Str., 9.6K bps Std., 9.6K bps Std., 19.2K bps St					
Increment size, bytes Cache memory, bytes PUT/OUTPUT CONTROL None None None None None None None None				, .	
Cache memory, bytes PUT/OUTPUT CONTROL No. of I/O channels Date transfer rate OMMUNICATIONS OMMUNICATIONS No. dy Opt. 19.2K bps OMMUNICATIONS No. dy Opt. 19.2K bps Opt. 19				None	Standard EDAC
### PUT/OUTPUT CONTROL No. of I/O channels Data transfer rate OMMUNICATIONS Max. number of lines Synchronous No. of I/O channels Synchronous No. of I/O channels Synchronous No. of I/O channels No. of I/O ch				Alama	<u> </u>
No. of I/O chamnels Data transfer rate DMMUNICATIONS Max. number of lines Synchronous Asynchronous Std., 9.6K bps None Synchronous Std., 9.6K bps None Std., 19.2K bps Std., 1		None	None	None	None
Data Transfer rate    Data Transfer rate			00	le.	
OMMUNICATIONS  Max. number of lines Synchronous Std., 9.6K bps Synchronous Std., 9.6K bps Std., 19.2K bps Opt., 19.2K bps Opt., 19.2K bps Opt., 19.2K bps Opt., 19.2K bps Opt., 19.2K bps Opt., 19.2K bps Std.					
Max. number of lines		1.6/M bytes/sec.	2.9M bytes/sec.	2.5M bytes/sec.	2.5M bytes/sec.
Synchronous Synchronous Synch. 19.2K bps			1.7	l <sub>aa</sub>	400
Asynchronous None None None None RILE terminals emulated BIM 3270 emulation No None None None None None None None					
Protocols supported  None Type of LAN supported RE terminals emulated IBM 3270 emulation None None None None None None None No	•				
Type of LAN supported R.IE terminals emulated BIM 3270 emulation No None None None None None None None					
Rue terminals emulated BIBM 3270 emulation No No No No No No Retiremental Edul/PMENT Disks supported   Winchester: 84MB-168MB   SmD/CMD: 86MB-258MB   SmD/CMD: 84MB-688MB   SmD/	Protocols supported	None	2/00/3/00	2/00/3/00	2/80/3/80
RUE terminals emulated BIM 3270 emulation No No No No ERIPHERAL EQUIPMENT Disks supported   Winchester: 84MB-168MB   SMD/CMD: 86MB-258MB   SMD/CMD: 84MB-68MB   SMD/CMD: 84MB-688MB   SMD/CMD: 84MB-688MB   SMD/CMD: 84MB-68	Type of LAN supported	None	None	None	None
ERIPHERAL EQUIPMENT Disks supported  Winchester: 84MB-168MB  Winchester: 84MB-168MB  SMD/CMD: 86MB-258MB  SMD/CMD: 84MB-688MB  SMD/CMD FACTOR SAMB-SAMB COOLED TO TO TO TO TO TO TO TO TO TO TO TO TO	RJE terminals emulated	None	None	No	No
Disks supported  Winchester: 84MB-168MB  SMD/CMD: 86MB-258MB  SMD/CMD: 84MB-688MB  SDO-600 lpm	IBM 3270 emulation	No	No	No	No
Disks supported  Winchester: 84MB-168MB  SMD/CMD: 86MB-258MB  SMD/CMD: 84MB-688MB  SDO-600 lpm	ERIPHERAL EQUIPMENT				
Litter-quality printers Line printers Line printers Line printers Nonimpact printers Real-to-real tape drives Streaming tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge, cassette Diskette, 1MB  OFTWARE Assembler Assembler Compilers  Assembler Iris Basic  Operating system name Operating system Operating system Operating system Operating system Operating system Operating system implemented in firmware Database management system Principal industry application Caeneral purpose Dusiness, electronic office, force application generator, PC connection RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date  Mo. maintenance of basic configuration Date of first delivery Number installed to date ODIMENTS  75 cps 200-600 lpm None SODIB, 200B, 45MB X" cartridge, cassette Diskette, 1MB  Assembler Iris Basic, SM Basic Iris Timesharing Realtime Re	Disks supported	Winchester: 84MB-168MB	SMD/CMD: 86MB-258MB	SMD/CMD: 84MB-688MB	SMD/CMD: 84MB-688M
Litter-quality printers Line printers Line printers Line printers Nonimpact printers Real-to-real tape drives Streaming tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge, cassette Diskette, 1MB  OFTWARE Assembler Assembler Compilers  Assembler Iris Basic  Operating system name Operating system Operating system Operating system Operating system Operating system Operating system implemented in firmware Database management system Principal industry application Caeneral purpose Dusiness, electronic office, force application generator, PC connection RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration and price  RICING & AVAILABILITY Basic system configuration Date of first delivery Number installed to date  Mo. maintenance of basic configuration Date of first delivery Number installed to date ODIMENTS  75 cps 200-600 lpm None SODIB, 200B, 45MB X" cartridge, cassette Diskette, 1MB  Assembler Iris Basic, SM Basic Iris Timesharing Realtime Re	Serial printers	20-180 cps	20-180 cps	20-180 cps	20-180 cps
Line printers Nonimpact printers Nonimpact printers Nonimpact printers Nonimpact printers None Streaming tape drives Streaming tape drives Other peripherals supported OFTWARE Assembler Compilers  Assembler Iris timesharing Operating system name Operating system implemented in firmware Database management system Other packages Other packages  Other					
None None None None None None None None					
None Streaming tape drives Streaming tape drives Cassette/carridge tape drives Cassette/carridge tape drives Other peripherals supported OFTWARE Assembler Compilers  Assembler Iris Basic  Operating system name Operating system implemented in firmware Database management system Principal industry application Other packages  Other pac		_			_
Streaming tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Other peripherals supported  OFTWARE Assembler Compilers  Assembler Compilers  Assembler Compilers  Assembler Compilers  Assembler Compilers  Assembler Compilers  Assembler Compilers  Assembler Iris Basic  Iris Timesharing Realtime No None SMC Idol General purpose business, electronic office, force application generator, PC connection SMC Idol General purpose business, electronic office, force application generator, PC connection SMC BMB disk, 8 ports, 45MB streaming tape  Assembler Iris Timesharing Realtime No No SMC Idol General purpose business, electronic office, force application generator, PC connection SMC BMB disk, 8 ports, 45MB streaming tape  \$20 ips; 20MB, 45MB %" cartridge, cassette Diskette, 1MB  90 ips; 20MB, 45MB %" cartridge, cassette Diskette, 1MB  90 ips; 20MB, 45MB %" cartridge, cassette Diskette, 1MB  Assembler Iris Basic, SM Basic Iris Timesharing Realtime No No SMC Idol General purpose business, electronic office, force application generator, PC connection SMC Idol General purpose business, electronic office, force application generator, PC connection SMB disk, 8 ports, 45MB streaming tape \$20, pp; 20MB, 45MB %" cartridge, cassette Diskette, 1MB  Assembler Iris Basic, SM Basic  Iris Timesharing Realtime No No SMC Idol General purpose business, electronic office, force application generator, PC connection Generator, PC connection  CPU, 54KB memory, 84MB disk, 8 ports, 45MB streaming tape \$20, pp; 20MB, 45MB %" cartridge, cassette Diskette, 1MB  Assembler Iris Basic, SM Basic  Iris Timesharing Realtime No No SMC Idol General purpose business, electronic office, force application generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator, PC connection Generator,		None	•	100 ips	100 ips
Cassette/Cartridge tape drives Other peripherals supported  Assembler Compilers  Operating system name Operating system inplemented in firmware Database management system Other packages		90 ips; 20MB, 40MB	90 ips; 20MB, 45MB		90 ips; 20MB, 45MB
Other peripherals supported  Diskette, 1MB  Assembler Iris Basic, SM Basic  Iris Timesharing Realtime Rea					¼" cartridge, cassette
Assembler Compilers  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic, SM Basic  Iris Timesharing  Realtime  No  No  No  SMC Idol  General purpose business, electronic office, force application generator, PC connection  RICING & AVAILABILITY  Basic system configuration and price  Mo. maintenance of basic configuration  Mo. maintenance of basic configuration  Mo. maintenance of basic configuration  Mo. maintenance of first delivery  Number installed to date  No  Assembler Iris Basic, SM Basic  Iris Timesharing  Realtime  No  No  SMC Idol  General purpose  business, electronic office, force application  generator, PC connection  SMC Idol  General purpose  business, electronic office, force application generator, PC connection  General purpose  Dusiness, electronic office, force application generator, PC connection  CPU, 64KB memory, 84MB disk, 8 ports, 45MB streaming tape— \$21,995  Assembler Iris Basic, SM Basic  Iris Timesharing  Realtime  R		Diskette, 1MB	Diskette, 1MB	-	Diskette, 1MB
Assembler Compilers  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic  Assembler Iris Basic, SM Basic  Iris Timesharing  Realtime  No  No  No  SMC Idol  General purpose business, electronic office, force application generator, PC connection  RICING & AVAILABILITY  Basic system configuration and price  Mo. maintenance of basic configuration  Mo. maintenance of basic configuration  Mo. maintenance of basic configuration  Mo. maintenance of first delivery  Number installed to date  No  Assembler Iris Basic, SM Basic  Iris Timesharing  Realtime  No  No  SMC Idol  General purpose  business, electronic office, force application  generator, PC connection  SMC Idol  General purpose  business, electronic office, force application generator, PC connection  General purpose  Dusiness, electronic office, force application generator, PC connection  CPU, 64KB memory, 84MB disk, 8 ports, 45MB streaming tape— \$21,995  Assembler Iris Basic, SM Basic  Iris Timesharing  Realtime  R	COETWARE				
Compilers  Iris Basic  Iris Basic, SM Basic  Iris Basic, Sp Bestime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Speaklime Spea		Assembler	Assembler	Assembler	Assembler
Operating system name Operating system implemented in firmware Database management system Principal industry application Other packages Other					
Operating system Operating System Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating System Operator, PC connection Operator, PC			·	·	·
Operating system Operating System Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating system Operating System Operator, PC connection Operator, PC	Onerating system name	_	Iris Timesharing	Iris Timesharing	Iris Timesharing
Operating system implemented in firmware Database management system Principal industry application One Principal industry application Other packages Other p		Iris timesharing			
Database management system Principal industry application Other packages Other pa				•	1
Principal industry application  Other packages				1	
Dusiness, electronic office, force application generator, PC connection  RICING & AVAILABILITY Basic system configuration and price  CPU, 64KB memory, 84MB disk, 20MB streaming tape, 4 ports— \$17,900  Contact vendor May 1981  Monumber installed to date  Continuous description office, force application generator, PC connection  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Number installed to date  Doministry  Date of first delivery  Nay 1981  A000  Disk caching feature					
Other packages  electronic office, force application generator, PC connection  RICING & AVAILABILITY Basic system configuration and price  CPU, 64KB memory, 84MB disk, 20MB streaming tape, 4 ports—\$17,900  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  electronic office, force application generator, PC connection genera		1		,	
force application generator, PC connection  RICING & AVAILABILITY Basic system configuration and price  CPU, 64KB memory, 84MB disk, 20MB streaming tape, 4 ports— \$17,900  CONTACT Vendor Date of first delivery Number installed to date  OMMENTS  AVAILABILITY Basic system configuration and price  force application generator, PC connection  CPU, 512KB memory, 84MB disk, 8 ports, 45MB streaming tape— \$21,995  CONTACT Vendor May 1981 Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  AVAILABILITY  Borce application generator, PC connection  CPU, 512KB memory, 84MB disk, 8 ports, 45MB streaming tape— \$21,995  CONTACT Vendor May 1981 May 1985 June 1979 July 1984  CONTACT Vendor July 1984  1000  Disk caching feature	Other packages	I " '	1	1	
generator, PC connection  Generator, PC conn	cc. puonagoo				
RICING & AVAILABILITY Basic system configuration and price  CPU, 64KB memory, 84MB disk, 20MB streaming tape, 4 ports— \$17,900  CPU, 64KB memory, 84MB disk, 8 ports, 45MB streaming tape— \$21,995  CPU, 512KB memory, 84MB disk, 8 ports, 20MB streaming tape— \$20MB streaming tape— \$28,200  CPU, 128KB memory, 84MB disk, 20MB st ing tape, 8 ports— \$34,200  Contact vendor May 1981  May 1985  Number installed to date  OMMENTS  CPU, 128KB memory, 84MB disk, 20MB st ing tape, 8 ports— \$34,200  Contact vendor May 1985  June 1979  July 1984  1000  Disk caching feature					generator, PC connection
Basic system configuration and price  CPU, 64KB memory, 84MB disk, 20MB streaming tape, 4 ports— \$17,900  COntact vendor Date of first delivery Number installed to date  CPU, 512KB memory, 84MB disk, 8 ports, 45MB streaming tape— \$21,995  Contact vendor May 1981 May 1985 May 1985 May 1985 May 1985 May 1985 May 1985 May 1985 May 1985 May 1986 May 1987 May 1988 May 1985 May 1986 May 1987 May 1988 M	RICING & AVAILABILITY				
disk, 20MB streaming tape, 4 ports—\$17,900  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Misk, 20MB streaming tape—\$21,995  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Most ports, 45MB streaming tape—\$20MB streaming tape—\$20MB streaming tape—\$28,200  Contact vendor May 1985 June 1979 July 1984  1000  Disk caching feature  Most ports, 20MB streaming tape—\$34,200		CPU, 64KB memory, 84MB	CPU, 512KB memory,	CPU, 128KB memory,	CPU, 256KB memory,
tape, 4 ports—\$17,900					84MB disk, 20MB stream
Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Contact vendor May 1981 May 1985 May 1985 June 1979 July 1984 1000 1000 Disk caching feature					
Date of first delivery Number installed to date OMMENTS Away 1981 May 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 June 1979 July 1984 Away 1985 July 1985 July 1984 Away 1985 July 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1984 Away 1985 July 1986 Away 1986 Away 1986 Away 1986 Away 1986 Away 1986 Away 1986 Away 1986 Away 1986 Away 1986 Away 1986 Away 1986 A		\$17,900	\$21,995	\$28,200	\$34,200
Date of first delivery Number installed to date OMMENTS  May 1981 May 1985 June 1979 B000 1000 Disk caching feature					
Date of first delivery Number installed to date A000 NMENTS Nature 1979 Aury 1984 Number installed to date Nomber install					
Date of first delivery May 1981 May 1985 June 1979 July 1984 Number installed to date 000MENTS July 1985 June 1979 July 1984 1000 BOOMMENTS July 1984 1000 Disk caching feature Disk caching feature					
Number installed to date 4000 1000 8000 1000 1000 1000 1000 1000					
OMMENTS Disk caching feature Disk caching feature					
		4000	1000		1
optional. optional	OMMENTS				
				optional.	optional

MANUFACTURER AND MODEL	Point 4 Data Corp. Mark 12	PolyMorphic Systems System 8813	Rexon Business Machines Corp. RX100	Rexon Business Machines Corp. RX200
VORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	128KB-16MB	512KB-4MB	256KB960KB	256KB-960KB
DISK STORAGE CAPACITY	84MB-688MB	1.6MB-300MB	10MB30MB	28MB-56MB
IO. WORKSTATIONS SUPPORTED	128	16	1-8	1-12
PRICE RANGE PARGET MARKET	\$42,430-\$150,000+ Business	\$6,000-\$80,000 Business, Education, Engineering	\$10,000-\$25,000 Business, Professional Data Processing	\$13,000-\$35,000 Business, Professional Data Processing
ENTRAL PROCESSOR				1
CPU manufacturer and model	Point 4 Mark 12	Intel iAPX186	Intel 8086-2	Intel 8086-2
Hardware floating point	None	None	No	No
Battery backup	Optional	Optional	No	No
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	64	125	137	137
MIPS	15.6	120		1.07
	13.0		i—	<del> </del>
MAIN STORAGE			1	
Bytes fetched per cycle	8	2	2	2
Memory access, bits/sec.	267M bits/sec.	4M bytes/sec.	9.84M bits/sec.	9.84M bits/sec.
Cycle/access time, nanoseconds	35	500	542	542
Storage protection	Standard EDAC	None	None	None
Increment size, bytes	2MB	256K	128K	128K
Cache memory, bytes	128KB	None	Optional, 64KB	Optional, 64K
NPUT/OUTPUT CONTROL			1	1
No. of I/O channels	64	2	16	20
Data transfer rate	2.5M bytes/sec.	2M bytes/sec.	To 625K bytes/sec.	I
COMMUNICATIONS		1	1.5 525.1 57105/550.	
Max. number of lines	128	16	9	13
			1 =	1
Synchronous	Opt., 19.2K bps	Opt., 250K bps	Opt., 2,400 bps	Opt., 2.4K bps
Asynchronous	Std., 19.2K bps	Std., 19.2K bps	Std., 19,200 bps	Std., 19.2K bps
Protocols supported	2780/3780	SDLC/HDLC	2780/3780	2780/3780
Type of LAN supported	None	PolyNet, Ethernet	None	None
RJE terminals emulated	None	None	2780/3780	2780/3780
IBM 3270 emulation	No	No	No	No
ERIPHERAL EQUIPMENT	l			1
Disks supported	SMD/CMD: 84MB-688MB	Cart: 5MB-80MB; diskette Fixed:18MB-110MB	Fixed: 10MB-30MB	Fixed: 28MB-56MB
Serial printers	20-180 cps	Not offered by mfr.	To 400 cps	To 400 cps
Letter-quality printers	75 cps	Not offered by mfr.	35 cps	35 cps
Line printers	200-600 lpm	Not offered by mfr.	To 600 lpm	To 600 cps
Nonimpact printers	None	Not offered by mfr.	<u> </u>	None
Reel-to-reel tape drives	100 ips	None	None	None
Streaming tape drives	90 ips; 20MB, 45MB	90 ips	25/100 ips; 1600 bpi	25/100 ips; 1600 bpi
Cassette/cartridge tape drives	14" cartridge, cassette	None	90 ips; 20MB (std.)	90 ips; 20MB (std.)
Other peripherals supported	74 Gartriage, cassette	, reme	8" diskettes; attached	8" diskettes; attached
Caror peripherais supported	1		PCs	PCs
OFTWARE	1		1,00	الم
	Assembles	Magra	None	None
Assembler	Assembler	Macro	None	None
Compilers	Iris Basic, SM Basic	BASIC, FORTRAN,	Basic (interpretive)	Basic (interpretive)
	1	PASCAL, COBOL, C	1	ł
		1		
Operating system name	Iris Timesharing	<u> </u>		
Operating system	Realtime	Multitasking	Multitasking	Multitasking
Operating system implemented in firmware	No	Not supplied	No	No
Database management system	SMC Idol	Third party	Idol	Idol
Principal industry application	General purpose,	General	General accounting	General accounting
	business	1	(open systems)	
Other packages	electronic office,	Accounting, office	Spreadsheet,	Spreadsheet.
Other packages	force application	automation, CAD/CAM,	word processing,	word processing,
				, ,
DIOINO O ALVAN ADILITA	generator, PC connection	word processing	PC Harmony	PC harmony
RICING & AVAILABILITY	ODI 100KD	ODLL ONED	LODIL OF CITY	ODIL OFFICE
Basic system configuration and price	CPU, 128KB memory,	CPU, 2MB memory, 8	CPU, 256KB memory, 10MB	CPU, 256KB memory,
	8 ports, 84MB Disk,	users, 55MB disk,	disk, streaming	28MB disk, streaming
	20MB streaming tape—	terminals w/high res.	cartridge tape, 1 CRT,	cartridge tape, 1 CRT,
	\$42,430	graphics, concurrent	150 cps printer	150 cps printer
	1	DOS and GSX graphics	\$11,400	\$13,200
		software, built in		1
	1	networking—\$36,000	1	{
	]			1
Mo maintonance of basis configuration	Contact vendor	I_	Consult dealers	Consult dealers
Mo. maintenance of basic configuration		January 1004	1	
Date of first delivery	December 1985	January 1984	November 1982	November 1983
Number installed to date	200	I <del></del>	1800	700
OMMENTS	Disk caching feature	System unit will support	1	1
	optional	an additional 8 users		1
	Гориона	ari additional o users		
	Орнопа	after which systems of		
	Орнопа	after which systems of		
	ориона	after which systems of up to 16 users can be		
	Optional	after which systems of		

MANUFACTURER AND MODEL	Rexon Business Machines Corp. RX105	Rexon Business Machines Corp. RX205	Rexon Business Machines Corp. RX400/450	Rexon Business Machines Corp. RX405
	16 bits	16 bits	16 bits	16 bits
WORD LENGTH			I to the second	
MAIN MEMORY	512KB-2MB	512KB-2MB	256KB-960KB	512KB-2MB
DISK STORAGE CAPACITY	40MB-80MB	70MB-140MB	56MB-280MB	227MB-454MB
IO. WORKSTATIONS SUPPORTED	8	16	Up to 32	32
PRICE RANGE	\$13,500-\$30,000	\$16,000-\$40,000	\$20,000-\$75,000	\$26,000-\$75,000
ARGET MARKET	Business, Professional	Business, Professional	Business, Professional	Business, Professional
	Data Processing	Data Processing	Data Processing	Data Processing
ENTRAL PROCESSOR				
CPU manufacturer and model	Intel 80286	Intel 80286	Intel 8086-2	Intel 80286
Hardware floating point	Opt., double precision	Opt., double precision	No	Opt., double precision
Battery backup	None	None	No	None
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	166	166	137	100
MIPS		-	<del></del>	
MAIN STORAGE				
Bytes fetched per cycle	2	2	2	2
Memory access, bits/sec.	16M bits/sec.	16M bits/sec.	9.84M bits/sec.	26M bits/sec.
Cycle/access time, nanoseconds	333	333	542	200
Storage protection	Standard	Standard	None	Standard
Increment size, bytes	512K	512K	128K	512K
Cache memory, bytes	None	None	Optional, 64K	None
NPUT/OUTPUT CONTROL				
No. of I/O channels	24	24	24/40	40
Data transfer rate		<u> </u>	<u> </u>	
OMMUNICATIONS		1		
Max. number of lines	17	17	17/32	33
Synchronous	Opt., 2.4K bps	Opt., 2.4K bps	Opt., 2.4K bps	Opt., 2.4K bps
Asynchronous	Std., 19.2K bps	Opt., 19.2 bps	Std., 19.2K bps	Std., 19.2K bps
Protocols supported	2780/3780	2780/3780	2780/3780	2780/3780
			,	1
Type of LAN supported	Micnet	Micnet	None	Micnet
RJE terminals emulated	None	2780/3780	2780/3780	2780/3780
IBM 3270 emulation	No	No	No	No
ERIPHERAL EQUIPMENT		""	1	1
Disks supported	Fixed: 40MB-80MB	Fixed: 85MB-170MB	Fixed: 140MB-280MB	Fixed: 227MB-454MB
Serial printers	To 400 cps	To 400 cps	To 400 cps	To 400 cps
Letter-quality printers	35 cps	35 cps	35 cps	35 cps
Line printers	To 600 lpm	To 600 lpm	To 600 cps	To 600 lpm
Nonimpact printers	None		<del> </del>	<del>-</del>
Reel-to-reel tape drives	None	None	None	None
Streaming tape drives	25/100 ips; 1600 bpi	25/100 ips; 1600 bpi	25/100 ips; 1600 bpi	25/100 ips; 1600 bpi
Cassette/cartridge tape drives	90 ips; 60MB (std.)	90 ips; 60MB (std.)	90 ips; 20MB (std)	90 ips; 60MB (std.)
Other peripherals supported	51/4", 8" diskettes,	51/4", 8" diskettes,	8" diskettes, attached	51/4", 8" diskettes,
Parishina askbarrag	attached PCs	attached PCs	PCs	attached PCs
OFTWARE	1		1	1
Assembler	None	None	None	None
Compilers	Micro Focus Lev II,	Micro Focus Lev II	Basic (interpretive)	Micro Focus Lev II
	Cobol, SMC Basic,	Cobol, SMC Basic		Cobol, SMC Basic,
	RM Cobol	RM/Cobol	1	RM Cobol
Operating system name				
Operating system Operating system	Multitasking	Multitasking	Multitasking	Multitasking
Operating system Operating system implemented in firmware		No	No	No
Database management system	Informix, Idol	Informix, Idol	Idol	Informix, Idol
Principal industry application	General accounting	General accounting	General accounting	General accounting
	(open systems)	(open systems)	(open systems)	(open systems)
Other packages	Multiplan, R Office,	Multiplan, R Office,	Spreadsheet,	Multiplan, R Office,
Other packages	PC Harmony, Tango	PC Harmony, Tango	word processing,	PC Harmony, Tango
	Talliony, rango	. S riumony, rango	PC Harmony	. 5 Hamiony, rango
RICING & AVAILABILITY			. S riamony	
Basic system configuration and price	CPU, 512KB memory,	CPU, 512KB memory,	CPU, 256KB memory,	CPU, 512KB memory,
basic system configuration and price	40MB disk, streaming	70MB disk, streaming	56MB disk, streaming	116MB disk, streaming
	cartridge tape, 1 CRT,	cartridge tape, 1 CRT,	cartridge tape, 1 CRT,	cartridge tape, 1 CRT,
	1-150 cps printer	1 150 cps printer	1-150 cps printer	1 150 cps printer
	—\$15,000	\$17,400	—\$22,400/\$32,400	—\$27,400
	φ 15,000	—φ17, <del>4</del> 00	φ∠∠,40U/φ3∠,4UU	φ2 / , <del>4</del> 00
				1
Mo. maintenance of basic configuration	Consult dealer	Consult dealer	Consult dealer	Consult dealer
Date of first delivery	November 1984	November 1984	June 1982/August 1984	November 1984
Number installed to date	I—		1300	_
COMMENTS	Xenix System V or Recap	Xenix System V or Recap		Xenix System V or Reca
	operating system	operating system	1	operating system
	1			conversion support
	COnversion support			
	conversion support	conversion support		
	available for languages	available for languages		available for languages

MANUFACTURER AND MODEL	Second Source Computers Incorporated SSCI-100	Second Source Computers Incorporated SSCI-800	Sentinel Computer Corp. DS-130	Sentinel Computer Corp. DS-140
WORD I FNOTH	16 54-	10 5:4-	10 1:	40.11
NORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	256KB-1MB	256KB-2MB	128KB-196KB	160KB-896KB
DISK STORAGE CAPACITY	10MB-512MB	10MB-1024MB	30MB-72MB	544MB-1.2GB
NO. WORKSTATIONS SUPPORTED	8	32	5	32
PRICE RANGE	\$8,500-\$25,000	\$40,000-\$125,000	\$16,700-\$35,000	\$21,200-\$60,000
ARGET MARKET	Scientific	Scientific	Business	Business
ANGET WARRET	Ocientalic	Scientific	Busiless	Dusiness
CENTRAL PROCESSOR				1
CPU manufacturer and model	SSCI	SSCI	Intel 8086	Intel 8086
Hardware floating point	No	Single/double	Double	Double
Battery backup	Optional	Optional	Optional	Optional
			•	
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	165	150	750	750
MIPS	0.6	1.2		<u> </u>
MAIN STORAGE				ſ
Bytes fetched per cycle	2	4	2	2
	I	<u>'</u>	20 bits/sec.	20 bits/sec.
Memory access, bits/sec.	495	150		
Cycle/access time, nanoseconds	1	1	660	660
Storage protection	Standard	Standard	Standard	Standard
Increment size, bytes	<b> </b>	256K	32K	32K
Cache memory, bytes	None	2K	4K	4K
NPUT/OUTPUT CONTROL		1	1	
No. of I/O channels	64	64	32	32
Data transfer rate	4M bytes/sec.	5.3M bytes/sec.	19.2K bytes/sec.	19.2K bytes/sec.
COMMUNICATIONS		1		
Max. number of lines	64	128	32	32
Synchronous	Opt., 50K bps	Opt., 50K bps	9.6K bps	9.6K bps
Asynchronous	Std., 9.6K bps	Std., 9.6K bps	19.2K bps	19.2K bps
•				
Protocols supported	SDLC, UDLC, BSC	SDLC, UDLC, BSC	2780/3780	2780/3780
T (1.44)				<b>1</b>
Type of LAN supported	I	1	None	None
RJE terminals emulated	HASP	HASP	2780/3780	2780/3780
IBM 3270 emulation	Yes	Yes	No	No
PERIPHERAL EQUIPMENT				
Disks supported	Fixed: 80MB-512MB	Fixed: 80MB-512MB	Fixed: 30MB-72MB	Fixed: 30MB-288MB
Diake supported	Cartridge: 10MB-300MB	Cartridge: 10MB-300MB	TINGG. GOIND 7 ZIVID	TIXEG. SOIVID ZOOIVID
Carial muintana			EE 240	EE 240
Serial printers	200 cps	200 cps	55-340 cps	55-340 cps
Letter-quality printers	200 cps	200 cps	55 cps	55 cps
Line printers	300-1200 lpm	300-1200 lpm	300-600 lpm	300-600 lpm
Nonimpact printers	Laser: 8 ppm	Laser: 8 ppm	I— ·	<u> </u>
Reel-to-reel tape drives	75 ips; 800/1600 bpi	75 ips; 800/1600 bpi	None	None
	90 ips	90 ips	1	•
Streaming tape drives	90 ips	ao ibs	100 ips; 1600 bpi	100 ips; 1600 bpi
Cassette/cartridge tape drives	<b> </b>	I—	60MB-100MB	60-100MB
Other peripherals supported			Diskettes 1.6MB	Diskettes 1.6MB
SOFTWARE	1			ļ.,
Assembler	Macro	Macro	Macro (DBL)	Macro (DBL)
Compilers	Fortran IV, Fortran 77,	Fortran IV, Fortran 77,	Basic, Cobol,	Basic, Cobol,
	C, Cobol 74	C, Cobol 74	Pascal, Fortran	Pascal, Fortran
				ł
Operating system name	Vortex II, Unix V	Vortex II, Unix V	<u> </u>	
Operating system	Realtime, batch, multita	Realtime, batch, multita	Multitasking, batch	Multitasking, batch
Operating system implemented in firmware		Partially	Partially	Partially
Database management system	1_	Total	DBOS	DBOS
	CAD/CAM asiansis ATE			•
Principal industry application	CAD/CAM, scientific ATE,	CAD/CAM, scientific ATE,	Industrial, distribution	Industrial, distribution
0.1	communications	communications		<b>1</b>
Other packages			Medical, credit union,	Medical, credit union,
			accounting	accounting
DICINO O AVALLABILITY			1	
PRICING & AVAILABILITY	lonu 4445	lanu a.m	lan	l
Basic system configuration and price	CPU, 1MB memory, 80MB	CPU, 2MB memory, 160MB	CPU, 128KB memory,	CPU, 544KB memory,
basic system comiguration and price	disk	disk	30MB disk, 1.6MB	72MB disk, 1.6MB
basic system comiguration and price	\$26,500	\$72,300	diskette, 1920 char.	floppy, 1920 char. CRT,
basic system comiguration and price	<b>Φ20,500</b>	1	CRT, 5 slot card cage,	12 slot card cage,
basic system configuration and price	\$26,500			1
busic system comiguration and price	\$26,500	1		
busic system comiguration and price	\$26,500		operating system	operating system
basic system comiguration and price	\$20,500			\$21,200
basic system comiguration and price	\$20,500		operating system	
, , ,			operating system —\$16,700	-\$21,200
Mo. maintenance of basic configuration	\$278	\$683	operating system	
, ,		\$683 1980	operating system —\$16,700	-\$21,200
Mo. maintenance of basic configuration Date of first delivery	\$278 1982	1980	operating system —\$16,700	\$21,200 \$170
Mo. maintenance of basic configuration Date of first delivery Number installed to date	\$278	1 *	operating system —\$16,700	\$21,200 \$170
Mo. maintenance of basic configuration Date of first delivery	\$278 1982	1980	operating system —\$16,700	\$21,200 \$170
Mo. maintenance of basic configuration Date of first delivery Number installed to date	\$278 1982	1980	operating system —\$16,700	\$21,200 \$170
Mo. maintenance of basic configuration Date of first delivery Number installed to date	\$278 1982	1980	operating system —\$16,700	\$21,200 \$170
Mo. maintenance of basic configuration Date of first delivery Number installed to date	\$278 1982	1980	operating system —\$16,700	\$21,200 \$170
Mo. maintenance of basic configuration Date of first delivery Number installed to date	\$278 1982	1980	operating system —\$16,700	\$21,200 \$170

MANUFACTURER AND MODEL	Sentinel Computer Corp. DS-170	Sperry Corp. System 80 Models 4 & 6	Sperry Corp. System 80 Model 8	SyFa Data System Corporation SyFA 150
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	544KB-896KB	524KB-4MB	1MB-8MB	128KB
DISK STORAGE CAPACITY		1	617MB-12GB	
	188MB-1.2GB	128MB-1.3GB		36MB-108MB
NO. WORKSTATIONS SUPPORTED	32	40	120	8
PRICE RANGE FARGET MARKET	\$36,500-\$85,000 Business	\$66,082-\$300,000 Commercial	\$123,900-\$700,000 Commercial	\$16,690-\$60,000 Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Intel 8086	Proprietary	Proprietary	Proprietary
Hardware floating point	Double	Single/double	Single/double	No
Battery backup	Optional			None
Realtime clock or timer	Standard	Standard	Standard	Standard
	750	180	120	150
CPU cycle time, nanoseconds	750	180	120	1
MIPS				0.5
MAIN STORAGE	_	1.	1_	1_
Bytes fetched per cycle	2	4	8	2
Memory access, bits/sec.	20 bits/sec.	<del> </del>	<del> </del>	<u> </u>
Cycle/access time, nanoseconds	660	400	480	750
Storage protection	Standard	Standard	Standard	Standard
Increment size, bytes	32K	262K, 524K	1MB, 2MB	None
Cache memory, bytes	4K	None	None	None
NPUT/OUTPUT CONTROL				1
No. of I/O channels	32	3	6	31
Data transfer rate	19.2K bytes/sec.	6M bytes/sec.	8M bytes/sec.	4M bytes/sec.
Data transfer rate COMMUNICATIONS	10.2K Dytes/Sec.	ON Dytes/Sec.	UNI DYLOS/SEC.	TIVI DYTES/SEC.
	100	اه	20	ام
Max. number of lines	32	8	28	9
Synchronous	9.6K bps	Opt., to 56K bps	Opt., to 56K bps	Opt., 4.8K bps
Asynchronous	19.2K bps	Opt., to 19.2K bps	Opt., to 19.2K bps	Opt., 9.6K bps
Protocols supported	2780/3780	BSC, TTY, Univac, BC-7	BSC, TTY, Univac, BC-7,m	BSC
		X.25, DCA, 3270, UTS	X.25, DCA, 3270, UTS	1
Type of LAN supported	None	Usernet	Usernet	None
RJE terminals emulated	2780/3780	HASP	HASP	2780/3780, HASP
IBM 3270 emulation	No	Yes	Yes	Yes
PERIPHERAL EQUIPMENT	1		1	
Disks supported	Fixed: 188.5MB-344MB	Fixed: 118.2MB-491MB Removable: 72.3MB	Fixed: 118.2MB-491MB Removable: 29MB-200MB	Fixed 36MB, 86MB
Carial maintains	EE 240 one	80-400 cps		200 cps
Serial printers	55-340 cps	•	80-400 cps	
Letter-quality printers	55 cps	55 cps	55 cps	30 cps
Line printers	300-600 lpm	180-1200 lpm	180-2000 lpm	300-1000 lpm
Nonimpact printers	<del></del>	<del></del>		None
Reel-to-reel tape drives	None	75ips; 800/1600 bpi	75ips; 80/1600	None
Streaming tape drives	100 ips; 1600 bpi	Start/stop; 100/25ips	Start/stop; 100/25 ips	None
Cassette/cartridge tape drives	60MB-100MB	25 ips; 200-1600 bpi	25-125 ips; 200-6250 bpi	90 ips; 60MB
Other peripherals supported	Diskettes 1.6MB	Card equipment, diskette	Card equipment, diskette	
SOFTWARE				
Assembler	Macro (DBL)	Basic Assembler	Basic Assembler	None
Compilers	Basic, Cobol,	Cobol, Fortran IV,	Cobol, Fortran IV,	SyBOL
•	Pascal, Fortran	Basic, RPGII, Escort,	Basic, RPGII, Escort,	1
		Mapper	Mapper	[
Operating system name	I_			SyCLOPS
Operating system	Multitasking, batch	Batch, realtime	Batch, realtime	Realtime/batch/multitask
		Partially	Partially	
Operating system implemented in firmware				Ram memory resident
Database management system	DBOS	DMS Office automotion	DMS Office automation	None
Principal industry application	Industrial, Distribution	Office automation,	Office automation,	Mfg., transaction proc.,
Out and a second and a second	As disal smalls	decision support	decision support	distribution, insurance
Other packages	Medical, credit union,	Accounting, wholesale/	Accounting, wholesale/	į
	accounting	distribution, manu-	distribution, manu-	
	1	facturing	facturing	
PRICING & AVAILABILITY		1		
Basic system configuration and price	CPU, 544KB memory,	Model 4: CPU, 524KB	CPU, 1MB memory; 3MB	CPU, operating system,
•	188MB disk,	memory; 118.2MB disk;	add-on memory; two 1MB	utilities, 128KB memory,
	1.6MB floppy, 1920 char.	console w/keyboard; 2	diskette drives; four	controller, 8-port mul-
	CRT, 12 slot card cage,	workstations w/keyboards	491MB disk drives; four	tiplexer, 36MB disk,
	operating system,	1MB diskette; 180 lpm	tape units; eight 200	60 MB tape—
	cartridge tape—	printer	cps printers; 1200 lpm	\$16,690
	\$36,500	\$91,689	printers; 40 terminals/	1.0,000
	ψ50,500	Ψ31,003		1
	1	1	keyboards—\$651,914	
Mo. maintenance of basic configuration	\$292	\$618	\$3,761	<u></u>
Date of first delivery	March 1984	July 1982	December 1983	1984
Number installed to date		I—	ļ	
COMMENTS			Supports variety of	Upgrades to a 170
			Series 90 peripherals	Transaction Processor
				1
			1	•

	MANUFACTURER AND MODEL	SyFA Data Systems Corporation SyFA 170	SyFA Data Systems Corporation SyFA 190	SyFA Data Systems Corporation SyFA 300	SyFA Data System Corporation SyFA 1000
AAN MEMORY 18.8 STORAGE CAPACITY 10. WORRSTATIONS SUPPORTED 10. WORRSTATIONS SUPPORTED 10. WORRSTATIONS SUPPORTED 10. WORRSTATIONS SUPPORTED 10. WORRSTATIONS SUPPORTED 10. WORRSTATIONS SUPPORTED 10. WORRSTATIONS SUPPORTED 10. SAME 100MB 10. SAME 10. SA	VORD LENGTH	16 bits	16 bits	16 bits	16 bits
SIBAS TORAGE CAPACITY   Sable 109MB   36MB-259MB   20MB-1360MB   24					
16					
### RICE #ANGE ANGET MARKET   \$22,690-\$89,000   \$37,140-\$155,000   \$864.40-\$200,000   \$8					i e
## Susiness   Business				1 = :	
ENTRAL PROCESSOR CPU manufacturer and model Resistance floors or timer CPU cycle size, moseconds MPS ANN STORAGE ANS STORAGE AND ANS STORAGE AND AND ANS STORAGE AND AND ANS STORAGE AND AND ANS STORAGE AND AND ANS STORAGE AND AND ANS STORAGE AND AND ANS STORAGE AND AND ANS STORAGE AND AND AND AND AND AND AND AND AND AND			1		1 · · · · · · · · · · · · · · · · · · ·
CPU manufacturer and model Proprietary None None None None None None None None	ARGET MARKET	Business	Business	Business	Business
Hardware floating point   Readrine clock or timer   None		<b>.</b>			
None   Standard   St					
Standard   Standard					
150	Battery backup				None
MIRS   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company   Content   Company	Realtime clock or timer	Standard	Standard	Standard	Standard
All STORAGE	CPU cycle time, nanoseconds	150	150	150	150
Bytes fetched per cycle   2	MIPS	0.7	0.9	0.9	0.9
Bytes fetched per cycle   2	IAIN STORAGE				
Mismorry access, bits/sec.  Cycle/access true, nanoseconds Storage protection Incernent size, byres Cache memory, bytes Part / OUTPUT CONTROL 31 31 31 31 31 31 31 31 31 31 31 31 31		2	2	2	2
Scycle/scess time, nanoseconds   S50   S50   Stondard   Standard				I <u> </u>	
Standard   Standard   Standard   Standard   Standard   Standard   128K		550	500	500	500
128K   128K			1	1	
None   None					
### PUT/OUTPUT CONTROL No. of I/O channels Date transfer rate AM bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN bytes/sec.  AN b				I control of the cont	
No. of I/O channels Data transfer rate OMMUNICATIONS OPT. 9.6K bps OPT.		None	None	None	2K
Data transfer rate OMMINICATIONS Max. number of lines Synchronous Opt. 9.6K bps Opt. 9		<u> </u>	<u>_</u>	1.	
OMMUNICATIONS Max. number of lines Synchronous Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps Opt., 9.6K bps SSC, SNA, X.25 SSC,					1
OMMUNICATIONS Wax. number of lines Synchronous Opt., 9.6K bps Opt.		4M bytes/sec.	4M bytes/sec.	4M bytes/sec.	4M bytes/sec.
Synchronous Asynchronous Opt., 9.6k bps Opt., 9.6kb	OMMUNICATIONS				
Synchronous Asynchronous Opt., 9.6k bps Opt., 9.6kb	Max. number of lines	17	17	25	25
Asynchronous   Opt., 9.6K bps   BSC, SNA, X.25   SSC, SNA, X.25   SSC, SNA			1	1 1 2	
Protocols supported  BSC, SNA, X.25  BSC, SNA,					
Type of LAN supported RJE terminals emulated BJM 3270 emulation Processor or to a 170 Resource Processor or DMEDTS  SyFAnet 2780/3780, HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780, HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780/HASP Yes 2780/3780, HASP Yes 2780/3780/HASP Yes 2780/JAS0/HASP Yes	•				
RJE terminals emulated BM 3270 emulation Per SW Pes Ves Ves Ves Ves Ves Ves Ves Ves Ves V	rotocois supported	DSC, SNA, A.25	B3C, SIVA, A.23	B3C, 3NA, A.23	B3C, 3NA, A.25
RJE terminals emulated BM 3270 emulation Per SW Pes Ves Ves Ves Ves Ves Ves Ves Ves Ves V	Towns of LAN comments	C. F. A	0.54	0.54	
IBM 3270 emulation ERPHPERAL EQUIPMENT Disks supported  Fixed: 36MB, 86MB Fixed: 36MB, 86MB Fixed: 36MB, 86MB Fixed: 36MB, 86MB Fixed: 160MB-340MB Fixed: 160MB-300MB Fixed: 160MB-300MB Fixed: 160MB-300MB					
ERIPHERAL EQUIPMENT Disks supported  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 36MB, 86MB  Fixed: 16OMB-340MB  Removable: 80MB  200 cps 3					
Disks supported  Fixed: 36MB, 86MB  Fixed: 16OMB-340MB  Fixed: 16OMB-340MB  Fixed: 16OMB-340MB  Fixed: 16OMB-340MB  Fixed: 16OMB-34DMB  Fixed		Yes	Yes	Yes	Yes
Serial printers Letter-quality printers Lice printers None None None None Reel-to-relet tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Compilers  None Operating system name Operating system Operating system Comprises Completers  RICING & AVAILABILITY Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date  Mo. maintenance of basic configuration DIMMENTS  Availability Digrades to a 190 Transaction Processor or to 170 Resource Typ-Aurmber installed to date  OMMENTS  Availability Digrades to a 190 Transaction Processor or to 1000 Resource Typ-Aurmber installed to date  OMMENTS  Availability Digrades to a 190 Transaction Processor or to 170 Resource Typ-Aurmber installed to date  OMMENTS  Availability Digrades to a 190 Transaction Processor or to 1000 Resource Typ-Aurmber installed to date  OMMENTS  Availability Digrades to a 1000 Transaction Processor or to 1000 Resource Transaction Processor or to 1000 Resource Transaction Processor or to 1000 Resource Transaction Processor or to 1000 Resource Transaction Processor or to 1000 Resource Transaction Processor or 1000 Resource Transaction Processo	1				
Sarial printers Letter-quality printers Line printers Line printers Line printers Line printers Line printers Line printers Line printers Line printers Line printers Solo-1000 lpm None None None None None None None None	Disks supported	Fixed: 36MB, 86MB	Fixed: 36MB, 86MB	•	Fixed: 160MB-340MB
Letter-quality printers Line printers Line printers Nonimpact printers Nonimpact printers None None None None None None None None	Serial printers	200 cps	200 cps		200 cps
Line printers Nonimpact printers Nonimpact printers None Nonimpact printers Reel-to-reel tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cher peripherals supported  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery None None None None None None None None					1 '
None None None None None None None None					
Reel-to-reel tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives Cher peripherals supported  OFTWARE Assembler Compilers  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  Other packages  RICING & AVAILABILITY Basic system configuration and price Unique reminal— SyCLOPS Seatime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., distribution, trans-action proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg. distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg. distribution,					
Streaming tape drives Cassette/cartridge tape drives Cassette/cartridge tape drives OPTWARE Assembler OPTWARE Assembler Compilers  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  None SyBOL  SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, zKB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20.690  None  None None None None None None No					
Cassette/carrirdge tape drives Other peripherals supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral supported Other peripheral s					
Other peripherals supported  OFTWARE Assembler Compilers  None SyBOL  Sy					1
OFTWARE Assembler Compilers  SyBOL  SyCLOPS Realtime/batch/multitask RAM memory resident None  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20.690  Mo. maintenance of basic configuration Date of first delivery  None  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22.690  Mo. maintenance of basic configuration Date of first delivery  None  SyBOL  SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22.690  Mo. maintenance of basic configuration Date of first delivery  None  SyBOL  SyCLOPS Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22.690  Mo. maintenance of basic configuration Date of first delivery  None  Official cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, 18-port multiplexer, 3-80MB disk, 60MB cartridge tape, 18-port multiplexer, 3-80MB disk, 60MB cartridge tape, 18-port multiplexer, 3-80MB disk, 18-port multiplexer, 3-80MB disk, 18-port multiplexer, 3-80MB disk, 18-port multiplexer, 3-80MB disk, 18-port multiplexer, 3-80MB disk, 18-port multiplexer, 3-80MB disk, 18-port multiplexer, 3-80MB disk,	Cassette/cartridge tape drives	90 ips; 60MB	90 ips; 60MB	None	None
Assembler Compilers    None	Other peripherals supported				
Operating system name Operating system mame Operating system implemented in firmware Database management system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration and price  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20.690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  SyBOL  SyBol  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBol  Ratime/batch/multitask RAM memory resident  None  Mfg., transaction proc., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 2KB cache memory, 2KB cache memory, 2KB cache memory, 3F, or multiplexer, 98MB disk, terminal— \$37,140  S66,440  S66,440  S66,440  S66,440  S66,440  S66,	OFTWARE				
Operating system name Operating system mame Operating system implemented in firmware Database management system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration and price  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20.690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  SyBOL  SyBol  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBOL  SyBol  Ratime/batch/multitask RAM memory resident  None  Mfg., transaction proc., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 2KB cache memory, 2KB cache memory, 2KB cache memory, 3F, or multiplexer, 98MB disk, terminal— \$37,140  S66,440  S66,440  S66,440  S66,440  S66,440  S66,	Assembler	None	None	None	No
Operating system Operating system Operating system Operating system Operating system implemented in firmware Database management system Principal industry application Other packages  Realtime/batch/multitask Ram memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  Transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 3-80MB disk, terminal— \$37,140  Seeditme/batch/multitask RAM memory resident None  Mfg., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 3-80MB disk, terminal— \$37,140  Seeditme/batch/multitask RAM memory resident None  Mfg., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 3-80MB disk, terminal— \$37,140  Seeditme/batch/multitask RAM memory resident None  Mfg., transaction proc., distribution, trans- action proc., distribution, trans- action proc., distribution, trans- action proc., distribution, trans- action proc., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 37,140  Seeditme/batch/multitask RAM memory resident None  Mapural Seeditme/batch/multitask RAM memory resident No	Compilers	SyBOL	SyBOL	SyBol	SyBOL
Operating system Operating system implemented in firmware Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system insurance Operating system in continuous insurance Operating system insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in continuous insurance Operating system in c					
Operating system Operating system Operating system Operating system Operating system implemented in firmware Database management system Principal industry application Other packages  Realtime/batch/multitask Ram memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Realtime/batch/multitask RAM memory resident None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  Transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 3-80MB disk, terminal— \$37,140  Seeditme/batch/multitask RAM memory resident None  Mfg., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 3-80MB disk, terminal— \$37,140  Seeditme/batch/multitask RAM memory resident None  Mfg., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 3-80MB disk, terminal— \$37,140  Seeditme/batch/multitask RAM memory resident None  Mfg., transaction proc., distribution, trans- action proc., distribution, trans- action proc., distribution, trans- action proc., distribution, trans- action proc., distribution, trans. proc., insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 37,140  Seeditme/batch/multitask RAM memory resident None  Mapural Seeditme/batch/multitask RAM memory resident No	Operating system name	SyCLOPS	SyCLOPS	SyCLOPS	SyCLOPS
Operating system implemented in firmware Database management system Principal industry application Other packages  RICING & AVAILABILITY Basic system configuration and price  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  RAM memory resident None Mfg., transaction proc., distribution, insurance of system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  RAM memory resident None Mfg., transaction proc., distribution, insurance of system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Mome memory resident None Mfg., transaction proc., distribution, insurance of system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  May 1980  Upgrades to a 190 Upgrades to a 190 Transaction Processor or to a 170 Resource Processor on roa 170 Resource Processor on roa 170 Resource Processor on roa 1700 Resource  RAM memory resident None Mfg., transaction proc., distribution, trans-action proc., distributio					
Database management system Principal industry application  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  None Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 660,440  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  ———————————————————————————————————					
Principal industry application Other packages  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, insurance  Mfg., transaction proc., distribution, trans-action processing  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Mfg., transaction proc., distribution, insurance  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  ———————————————————————————————————		•			
Other packages    distribution, insurance	• • •		· ·	Mfg distribution	,
Other packages  RICING & AVAILABILITY Basic system configuration and price  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, follows cartridge tape, terminal— \$22,690  Mo. maintenance of basic configuration Date of first delivery  Number installed to date  OMMENTS  OTHER TOPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, terminal— \$37,140  May 1980  July 1975  Upgrades to a 190  Transaction Processor or to a 170 Resource  Resource Processor on r SyFAnet  Transaction Processor or or 1000 Resource  SyFAnet	i imoipai inuusti y application				1
RICING & AVAILABILITY Basic system configuration and price  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  S22,690  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 80MB disk, terminal— \$37,140  S26,690  May 1980  Upgrades to a 1000  Transaction Processor or to a 170 Resource  Upgrades to a 190  Transaction Processor or to a 170 Resource  SyFAnet	Oshan maskassa	distribution, insurance	distribution, insurance	uans. proc., insurance	
Basic system configuration and price  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  ———————————————————————————————————	Other packages				action processing
Basic system configuration and price  CPU, operating system, utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  CPU, operating system, utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  ———————————————————————————————————	DIOING & ALVAN ADMITY		-		
utilities, 128KB memory, controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  May 1980  Upgrades to a 190 Transaction Processor or to a 170 Resource  Utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 80MB disk, terminal— \$37,140  Way 1980  Upgrades to a 1000 Transaction Processor or to a 170 Resource  Utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 80MB disk, terminal— \$37,140  Upgrades to a 1000  Upgrades to a 1000 Transaction Processor or to a 170 Resource  Utilities, 128KB memory, 2KB cache memory, 8-port multiplexer, 80MB disk, terminal— \$66,440  Upgrades to a 1000  Upgrades to a 1000 Transaction Processor or to a 170 Resource  Upgrades to a 1000 Transaction Processor or to a 170 Resource  SyFAnet				1	
controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Momentum Date of 170 Resource  Controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  Controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  Controller, 8-port multiplexer, 36MB disk, terminal— \$37,140  Controller, 8-port multiplexer, 36MB disk, terminal— \$37,140  Controller, 8-port multiplexer, 36MB disk, terminal— \$37,140  Controller, 8-port multiplexer, 36MB disk, terminal— \$440  Controller, 8-port multiplexer, 36MB disk, t	Basic system configuration and price				
controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Controller, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$22,690  2KB cache memory, 8-port multiplexer, 36MB disk, 60MB cartridge tape, terminal— \$37,140  2KB cache memory, 8-port multiplexer, 36MB disk, terminal— \$37,140  357,140  2KB cache memory, 8-port multiplexer, 3-80MB disk, terminal— \$66,440  357,140  357,140  358, 40  359, 40  359, 40  40  40  40  40  40  40  40  40  40	<b>!</b>	utilities, 128KB memory,		utilities, 128KB memory,	utilities, 128KB memory,
tiplexer, 36MB disk, 60MB cartridge tape, terminal— \$20,690 \$1.40 \$22,690 \$1.4		controller, 8-port mul-	2KB cache memory, 8-port	2KB cache memory, 8-port	2KB cache memory, 8-pc
Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  Mo. maintenance of basic configuration Date of first delivery Number installed to date  OMMENTS  May 1980  ———————————————————————————————————	I				
terminal— \$20,690  Mo. maintenance of basic configuration Date of first delivery Number installed to date OMMENTS  Teminal— \$22,690  Transaction Processor or to a 170 Resource  terminal— \$22,690  Transaction Processor or SyFAnet  terminal— \$27,140  \$66,440  Transaction Processor or SyFAnet  \$37,140  May 1980  Upgrades to a 1000 Transaction Processor or or 1000 Resource  SyFAnet					
\$20,690 \$22,690 \$  Mo. maintenance of basic configuration Date of first delivery 1984 1985 May 1980 July 1975  — Upgrades to a 190 Upgrades to a 1000 Transaction Processor or to a 170 Resource Processor on r SyFAnet  \$20,690 \$  — Upgrades to a 1980 Upgrades to a 1000 Transaction Processor or to a 170 Resource Processor or SyFAnet					
Mo. maintenance of basic configuration Date of first delivery  Number installed to date  OMMENTS  Upgrades to a 190 Transaction Processor or to a 170 Resource  Transaction Processor on to a 170 Resource  Transaction Processor on to a 170 Resource  DMay 1980  May 1980  Upgrades to a 1000 Upgrades to a 1000 Transaction Processor or to a 170 Resource Processor or 1000 Resource  SyFAnet  Duly 1975  Upgrades to a 1000 Resource Processor or 1000 Resource  SyFAnet	1			1	1 ,
Date of first delivery Number installed to date OMMENTS  Upgrades to a 190 Transaction Processor or to a 170 Resource  Upgrades to a 190 Resource Processor or to a 170 Resource  Upgrades to a 190 Resource Processor or to a 170 Resource  SyFAnet  May 1980 Upgrades to a 1000 Upgrades to a 1000 Transaction Processor or to a 170 Resource Upgrades to a 1000 Resource Processor or 1000 Resource SyFAnet	1			1	
Date of first delivery Number installed to date OMMENTS  Upgrades to a 190 Transaction Processor or to a 170 Resource  1985 Upgrades to a 190 Resource Processor on r SyFAnet  May 1980 Upgrades to a 1000 Upgrades to a 1000 Transaction Processor or or 1000 Resource SyFAnet  Upgrades to a 1000 SyFAnet  SyFAnet	Mo maintenance of basic configuration		<u> </u>	<u> </u>	<u> </u>
Number installed to date OMMENTS Upgrades to a 190 Transaction Processor or to a 170 Resource Upgrades to a 190 Resource Processor on r SyFAnet Upgrades to a 1000 Transaction Processor or to a 170 Resource SyFAnet Upgrades to a 1000 Transaction Processor or to a 1700 Resource SyFAnet Upgrades to a 1000 SyFAnet		1094	1005	May 1990	luly 1975
OMMENTS Upgrades to a 190 Upgrades to a 190 Upgrades to a 190 Resource Processor on to a 170 Resource SyFAnet Upgrades to a 1000 Upgrades to a 1000 Resource Processor on to a 170 Resource Processor on to a 170 Resource Upgrades to a 1000 Resource SyFAnet		1364	1960	INIAN 1900	July 19/5
Transaction Processor or to a 170 Resource SyFAnet  Resource Processor on r SyFAnet  Transaction Processor on r SyFAnet  Transaction Processor on r Transaction Processor or 1000 Resource  Resource Processor on r SyFAnet			I		I
to a 170 Resource SyFAnet or 1000 Resource SyFAnet	UMMENTS		1 ' "		1
1 '			•		1
	1	to a 170 Resource	SyFAnet	or 1000 Resource	SyFAnet
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MANUFACTURER AND MODEL	Texas Instruments, Inc. Business System 352A	Texas Instruments, Inc. Business System 373A, 374A, 375A	Texas Instruments, Inc. Business System 661A	Texas Instruments, In Business System 671A, 672A
	40.1.1			
WORD LENGTH	16 bits	16 bit	16 bit	16 bit
MAIN MEMORY	256KB-2MB	256KB-2MB	512KB-2MB	512KB-2MB
DISK STORAGE CAPACITY	17MB	18MB-43MB	80MB	18MB-43MB
NO. WORKSTATIONS SUPPORTED	17	7	40	16
PRICE RANGE	\$9,995	<u> </u>	\$34,800-\$37,800	
		<u></u>		
ARGET MARKET	Business	Business	Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	TI 99000	TI 99000	TI 990/10A	TI 990/10A
	None	None	None	Optional
The arrang house	None	None	Optional	None
Battery backup		l .	1 .	
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	200	220	200	200
MIPS	<del></del>		l	<del></del>
MAIN STORAGE	ļ			
Bytes fetched per cycle	2	2	2	2
		l .		
Memory access, bits/sec.	27M bits/sec.	27M bits/sec.	27M bits/sec.	27M bits/sec.
Cycle/access time, nanoseconds	i <del></del>	<del> </del>	<u> </u>	<u> </u>
Storage protection	Mem Map	Mem Map	Standard, ECC	Standard, ECC
Increment size, bytes	512K	512K	256K,512K,1M,1.5M,2M	256K,512K,1M,1.5M,2M
Cache memory, bytes	None	None	4K	4K
NPUT/OUTPUT CONTROL		1	l	l
	i.	١,	140	10
No. of I/O channels	1	[1]	12	12
Data transfer rate	3.2M bytes/sec.	3.2M bytes/sec.	3M bytes/sec.	3M bytes/sec.
COMMUNICATIONS		1	1	
Max. number of lines	6	6	40	40
	<del>-</del>	Opt., 9.6K bps	Opt., 19.2K bps	Opt., 19.2K bps
Synchronous	Opt., 19.2K bps			
Asynchronous	Opt., 9.6K bps	Opt., 9.6K bps	Std.,9.6K bps;Opt.,19.2K	Std.,9.6K bps;Opt.,19.2K
Protocols supported	SNA, X.25, 3780/2780	SNA, X.25, 3780/2780	SNA, X.25, 3780/2780	SNA, X.25, 3780/2780
Tuno of LAN supported	Ethernet	Ethernet	Ethernet	Ethernet
Type of LAN supported				
RJE terminals emulated	3780/2780	3780/2780	3780/2780	3780/2780
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT	i '		l	
Disks supported	Winchester: 17MB	Winchester: 18MB-43MB	Fixed: 67MB	Winchester: 18MB-43MB
	<u> </u>		Removable: 13MB	
Serial printers	150 cps	150 cps	150 cps	150 cps
Letter-quality printers	35 cps	35 cps	35 cps	35 cps
Line printers	None	None	300-600 lpm	300-600 lpm
		l a company of the co	300-000 ipin	300-000 ipili
Nonimpact printers	None	None	I	<del></del>
Reel-to-reel tape drives	None	None	45 ips; 1600 bpi	45 ips; 1600 bpi
Streaming tape drives	None	None	None	None
Cassette/cartridge tape drives	None	14.5MB, 30 ips read	None	14.5MB; 30 ips read
Other peripherals supported	1.2MB diskette, 931 VDT	93 VDT	931 VDT	931 VDT
SOFTWARE		A		A
Assembler	Assembler	Assembler	Assembler	Assembler
Compilers	Cobol, Basic, Fortran,	Cobol, Basic, Fortran,	Cobol, Basic, Fortran,	Cobol, Basic, Fortran,
	Pascal	Pascal	Pascal	Pascal
0				
Operating system name			Multitasking	
Operating system	Multitasking	, ,	1	, ,
Operating system implemented in firmware		No	No	No
Database management system	DBMS	DBMS	DBMS	DBMS
Principal industry application			İ	1
• • • • • • • • • • • • • • • • • • • •	1	1	]	
Other packages	Word processing, Data	Word processing, Data	Word processing, Data	Word processing, Data
omor puokugoo	Dictionary, Query,	Dictionary, Query,	Dictionary, Query,	Dictionary, Query,
				,
	Screen Design	Screen Design	Screen Design	Screen Design
PRICING & AVAILABILITY				
THICHNG & AVAILABILITY	CDLL SECVE	CPU, 256KB memory,	CPU, 512KB memory,	CPU, 512KB memory,
Basic system configuration and price	CPU, 256KB memory,		67MB fixed disk, 13MB	13MB Winchester, 14.5M
	17MB disk, 1.2MB disk-	18MB Winchester, 14.5MB	101MD lixed disk, 13MB	
	17MB disk, 1.2MB disk-			l cartridge tane drive
	17MB disk, 1.2MB disk- ette, video display	cartridge tape drive,	removable disk, video	cartridge tape drive,
	17MB disk, 1.2MB disk-	cartridge tape drive, video display terminal	removable disk, video display terminal, 13-	video display terminal
	17MB disk, 1.2MB disk- ette, video display	cartridge tape drive,	removable disk, video	
	17MB disk, 1.2MB disk- ette, video display	cartridge tape drive, video display terminal	removable disk, video display terminal, 13-	video display terminal
	17MB disk, 1.2MB disk- ette, video display	cartridge tape drive, video display terminal	removable disk, video display terminal, 13-	video display terminal
Basic system configuration and price	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995	cartridge tape drive, video display terminal —\$15,500	removable disk, video display terminal, 13- slot chassis—\$34,800	video display terminal —\$25,400
Basic system configuration and price  Mo. maintenance of basic configuration	17MB disk, 1.2MB diskette, video display terminal—\$9,995	cartridge tape drive, video display terminal —\$15,500	removable disk, video display terminal, 13- slot chassis—\$34,800	video display terminal \$25,400
Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995	cartridge tape drive, video display terminal —\$15,500	removable disk, video display terminal, 13- slot chassis—\$34,800	video display terminal —\$25,400
Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995 \$120 April 1984	cartridge tape drive, video display terminal —\$15,500  \$130 April 1984	removable disk, video display terminal, 13- slot chassis—\$34,800 \$296 September 1983	video display terminal —\$25,400  \$181 September 1983
Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995 \$120 April 1984 — Disk capacities are	cartridge tape drive, video display terminal —\$15,500  \$130 April 1984 — Disk capacities are	removable disk, video display terminal, 13- slot chassis—\$34,800 \$296 September 1983 — Disk capacities are	video display terminal —\$25,400  \$181 September 1983 — Disk capacities are
Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995 \$120 April 1984	cartridge tape drive, video display terminal —\$15,500  \$130 April 1984	removable disk, video display terminal, 13- slot chassis—\$34,800 \$296 September 1983	video display terminal —\$25,400  \$181 September 1983
Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995 \$120 April 1984 — Disk capacities are	cartridge tape drive, video display terminal —\$15,500  \$130 April 1984 — Disk capacities are	removable disk, video display terminal, 13- slot chassis—\$34,800 \$296 September 1983 — Disk capacities are	video display terminal —\$25,400  \$181 September 1983 — Disk capacities are
Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995 \$120 April 1984 — Disk capacities are	cartridge tape drive, video display terminal —\$15,500  \$130 April 1984 — Disk capacities are	removable disk, video display terminal, 13- slot chassis—\$34,800 \$296 September 1983 — Disk capacities are	video display terminal —\$25,400  \$181 September 1983 — Disk capacities are
Basic system configuration and price  Mo. maintenance of basic configuration  Date of first delivery  Number installed to date	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995 \$120 April 1984 — Disk capacities are	cartridge tape drive, video display terminal —\$15,500  \$130 April 1984 — Disk capacities are	removable disk, video display terminal, 13- slot chassis—\$34,800 \$296 September 1983 — Disk capacities are	video display terminal —\$25,400  \$181 September 1983 — Disk capacities are
Basic system configuration and price  Mo. maintenance of basic configuration Date of first delivery Number installed to date	17MB disk, 1.2MB disk- ette, video display terminal—\$9,995 \$120 April 1984 — Disk capacities are	cartridge tape drive, video display terminal —\$15,500  \$130 April 1984 — Disk capacities are	removable disk, video display terminal, 13- slot chassis—\$34,800 \$296 September 1983 — Disk capacities are	video display terminal —\$25,400  \$181 September 1983 — Disk capacities are

MANUFACTURER AND MODEL	Texas Instruments, Inc. Business System 690A, 691A	Texas Instruments, Inc. Business System 861A/B	Texas Instruments, Inc. Business System 872A/B	Texas Instruments, In Business System 890A/B, 891A/B
WORD LENGTH	16 bit	16 bit	16 bit	16 bits
MAIN MEMORY	512KB-2MB	512KB-2MB	512KB-2MB	512KB-2MB
DISK STORAGE CAPACITY	138MB-425MB	80MB	43MB	138MB-425MB
NO. WORKSTATIONS SUPPORTED	40	40	40	40
PRICE RANGE	\$42,950-\$54,950	\$45,600-\$46,200	\$38,300	\$54,950-\$64,550
TARGET MARKET	Business	Business	Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	TI 990/10A	TI 990/12	TI 990/12	TI 990/12
Hardware floating point	None	Single/double	Single/double	Single/double
Battery backup	Optional	Optional	Optional	Optional
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	200	220	220	220
MIPS				1220
MAIN STORAGE				
Bytes fetched per cycle	2	2	2	2
Memory access, bits/sec.	27M bits/sec.	73M bits/sec.	73M bits/sec.	73M bits/sec.
Cycle/access time, nanoseconds				
Storage protection	Standard, ECC	Standard, ECC	Standard, ECC	Standard, ECC
Increment size, bytes	256K,512K,1M,1.5M,2M	256K, 512K, 768K, 1M	256K, 512K, 768K, 1M	256K, 512K, 768K, 1M
Cache memory, bytes	4K	4K	4K	4K
NPUT/OUTPUT CONTROL	··· -		l '''	1
No. of I/O channels	12	10	10	10
Data transfer rate	3M bytes/sec.	3M bytes/sec.	3M bytes/sec.	3M bytes/sec.
COMMUNICATIONS	J. 2,100,000.	5, 5,105,555.	J Dy 103/300.	Dytes/sec.
Max. number of lines	40	40	40	40
Synchronous	Opt., 19.2K bps	Opt., 50-19.2K bps	Opt., 50-19.2K bps	Opt., 50-19.2K bps
Asynchronous	Std.,9.6K bps;Opt.,19.2K	Std., 50-19.2K bps	Std., 50-19.2K bps	Std., 50-19.2K bps
Protocols supported	SNA, X.25, 3780/2780	SNA, X.25, 3780/2780	SNA, X.25, 3780/2780	SNA, X.25, 3780/2780
			·	,
Type of LAN supported	Ethernet	Ethernet	Ethernet	Ethernet
RJE terminals emulated	3780/2780	3780/2780	3780/2780	3780/2780
IBM 3270 emulation	Yes	Yes	Yes	Yes
PERIPHERAL EQUIPMENT				
Disks supported	Winchester: 138MB-425MB	Fixed: 67MB Removable: 13MB	Winchester: 43MB Removable: 13MB	Winchester: 138MB-425N
Serial printers	150 cps	150 cps	150 cps	150
Letter-quality printers	35 cps	35 cps	35 cps	150 cps
Line printers	300-600 lpm	300-600 lpm	300-600 lpm	35 cps
Nonimpact printers	300-800 ipiii	300-600 ipin	300-600 ipiii	300-600 lpm
Reel-to-reel tape drives	45 ips; 1600 bpi	45 ips; 1600 bpi	45 ips; 1600 bpi	45 ips; 1600 bpi
Streaming tape drives	100/50 ips; 1600/3200bpi	None	None	100/50 ips; 1600/3200b
Cassette/cartridge tape drives	None	None	14.5MB, 30 ips read	None
Other peripherals supported	931 VDT	931 VDT	931 VDT	931 VDT
SOFTWARE	A			
Assembler Compilers	Assembler	Assembler	Assembler	Assembler
Compilers	Cobol, Basic, Fortran, Pascal	Cobol, Basic, Fortran, Pascal	Cobol, Basic, Fortran,	Cobol, Basic, Fortran,
	Pascal	Pascai	Pascal	Pascal
Operating system name	_		_	
Operating system	Multitasking	Multitasking	Multitasking	Multitasking
Operating system implemented in firmware	No	No	No	No
Database management system	DBMS	DBMS	DBMS	DBMS
Principal industry application		_	<del>-</del>	<u> </u>
Other packages	Word processing, Data	Word processing, Data	Word massasing Date	Mand manager Date
Other packages			Word processing, Data	Word processing, Data
	Dictionary, Query,	Dictionary, Query,	Dictionary, Query,	Dictionary, Query,
PRICING & AVAILABILITY	Screen Design	Screen Design	Screen Design	Screen Design
	CPIL 512KP mamani	CPU, 512KB memory,	CPLL 512KP mamani	CDII 512VD
Basic system configuration and price	CPU, 512KB memory, 138MB Winchester, 91MB	67MB fixed disk, 13MB	CPU, 512KB memory,	CPU, 512KB memory,
			43MB Winchester, 14.5MB	138MB Winchester, 91M
	streaming tape, video	removable disk, two	cartridge tape drive,	streaming tape, two
	display terminal, 13- slot chassis—42,950	video display terminals, 13-slot chassis, 4-	two video display	video display terminals,
	SIUL UIIASSIS-42,950	channel comm. board	terminals, 13-slot chassis, 4-channel	
		—45,600	comm. board—38,300	4-channel comm. board \$54,950
		10,000	30,300	454,000
Mo. maintenance of basic configuration	\$271	\$427	\$317	\$402
Date of first delivery	August 1984	September 1983	September 1983	September 1983
Number installed to date	<u> </u>		<u> </u>	
COMMENTS	Disk capacities are	Disk capacities are	Disk capacities are	Disk capacities are
	formatted.	formatted. Fiber optics	formatted. Fiber optics	formatted. Fiber optics
		optional.	optional.	optional.
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MANUFACTURER AND MODEL	The Ultimate Corp. Model 1500	The Ultimate Corp. Model 1510, 1520	The Ultimate Corp. Model 3030	The Ultimate Corp. Model 6000
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	256КВ	512KB	<u> </u>	512KB-2MB
DISK STORAGE CAPACITY	48MB-192MB	48MB-192MB	344MB-1030MB	86MB-172MB
NO. WORKSTATIONS SUPPORTED	8	16	64	32
PRICE RANGE	\$11,500-\$31,300	\$22,500-\$34,300	\$77,000-\$130,000	\$35,300
TARGET MARKET	Business	Business	Small Business	Business
CENTRAL PROCESSOR				
CPU manufacturer and model	Ultimate Co-processor	Digital KDF11-AA	Digital LSI-11/23	Honeywell DPS 6
Hardware floating point	None	<del> </del>	None	Double
Battery backup	None	No	Optional	Optional
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds			-	170
MIPS	<del></del>	<del>-</del>		<u> </u>
MAIN STORAGE	1_			
Bytes fetched per cycle	2	<u> </u>	-	2
Memory access, bits/sec.	[-			420/520
Cycle/access time, nanoseconds	None		_	
Storage protection	None			Standard
Increment size, bytes	None	None	None	512K, 1M 4K
Cache memory, bytes INPUT/OUTPUT CONTROL	Morie	MOUR	TAOTIE	170
No. of I/O channels	None	<u> </u>	<b> _</b>	1024
Data transfer rate	None	1_		6M bytes/sec.
COMMUNICATIONS				5.77 57105/366.
Max. number of lines	8	16	64	32
Synchronous	No	Optional	Optional	Optional
Asynchronous	Standard	Standard	Standard	Standard
Protocols supported		<u> </u>	_	2780/3780, X.25
Trotogolo capportos	]			
Type of LAN supported	None	Ethernet	Ethernet	UltiNet (OSI)
RJE terminals emulated	2780/3780	<u> </u>		2780/3780
IBM 3270 emulation	No	No	No	No
PERIPHERAL EQUIPMENT				1
Disks supported	Fixed: 48MB, 86MB	Fixed: 48MB, 86MB	Fixed: 344MB	Fixed: 86MB
	1		1	1.00
Serial printers			-	180 cps
Letter-quality printers			-	35-55 cps
Line printers		<del> -</del>		None None
Nonimpact printers	<u> </u>		<u>                                     </u>	None
Reel-to-reel tape drives Streaming tape drives			25 ips	None
Cassette/cartridge tape drives	55 ips	55 ips	ips	55 ips
Other peripherals supported	00 ips	33 ips		00 ips
SOFTWARE	l			1
Assembler	<del> </del>	-		Macro
Compilers	Extended Basic	_	<u> </u>	Basic, Recall
Operating system name	Ultimate or Pick-based	Pick	Pick	Ultimate
Operating system	Multiuser		\ <del></del>	Multitasking
Operating system implemented in firmware	i e	I		Fully
Database management system	Integrated with OS	<del> </del>		Ultimate (Pick-generic)
Principal industry application	Business			Various commercial and
		1	1	business applications
Other packages	Varied	İ		UltiWord, UltiPlot,
				UltiCalc, UltiNet
PRICING & AVAILABILITY				
Basic system configuration and price	CPU, 256KB memory,	1510 CPU, UltiWord,	LSI-11/23 processor,	DPS6, Ultiword, Ulti-
- •	48MB disk, 8 CRT ports,	Ultiplot, 512KB memory,	Ultiword, Ultiplot,	plot, 512KB EDAC
	Ultiplot, Ultiword	co-processor, 48MB fixed	2 512MB disk drives,	memory, 67MB fixed disk
	\$19,500	disk, 16 ports	344MB fixed disk drive,	drive, 32 ports, 3X
	1	\$22,500	64 ports—	Ultimate co-processor,
	1	1	\$77,000	67MB fixed disk drive,
		Ť		32 ports
	#0F	#125		\$35,300
	\$95	\$125		\$265
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MANUFACTURER AND MODEL	The Ultimate Corp. Model 6200, 6400	The Ultimate Corp. Model 6600	The Ultimate Corp. Model 6800	Wang Laboratories Inc VS 15
WORD LENGTH	16 bits	16 bits	16 bits	16 bits
MAIN MEMORY	512KB-2MB	512KB-2MB	512KB-2MB	256KB-2MB
	160MB-1280MB	512MB-4120MB	512MB-4120MB	
DISK STORAGE CAPACITY				33MB-2.6GB
NO. WORKSTATIONS SUPPORTED	256	256	256	16
PRICE RANGE	\$69,000	\$119,000	\$179,000	\$13,500-\$65,000
CARGET MARKET	Business	Business	Business	DDP, Networked Office Automation
CENTRAL PROCESSOR	Utanasanali DDC 6	Haraman DDC 6	Haraman DDC 6	D
CPU manufacturer and model	Honeywell DPS 6	Honeywell DPS 6	Honeywell DPS 6	Proprietary
Hardware floating point	Double	Double	Double	Double precision
Battery backup	Optional	Optional	Optional	None
Realtime clock or timer	Standard	Standard	Standard	Standard
CPU cycle time, nanoseconds	170	170	170	400
MIPS	<u> </u>	<del>-</del>	<del> </del>	
MAIN STORAGE				
Bytes fetched per cycle	2	4	4	2
Memory access, bits/sec.		<u> </u>		2.5M bits/sec.
Cycle/access time, nanoseconds	420/520	420/520	420/520	480
Storage protection	Standard	Standard	Standard	Standard
Increment size, bytes	512K, 1M	512K, 1M	1M	256K
Cache memory, bytes	14K	4K	4K	None
NPUT/OUTPUT CONTROL	**	10	171	None
	1024	1024	1034	6
No. of I/O channels	1024	1024	1024	6
Data transfer rate	6M bytes/sec.	6M bytes/sec.	6M bytes/sec.	To 2.5M bytes/sec.
COMMUNICATIONS		I	1	
Max. number of lines	256	256	256	4
Synchronous	Optional	Optional	Optional	Opt., 64K bps
Asynchronous	Standard	Standard	Standard	Opt., 19.2K bps
Protocols supported	2780/3780, X.25	2780/3780, X.25	2780/3780, X.25	2780/3780; 3274; 3777,
				TTY, SNA, VT100, others
Type of LAN supported	UltiNet (OSI)	UltiNet (OSI)	UltiNet (OSI)	WangNet
RJE terminals emulated	2780/3780	2780/3780	2780/3780	2780/3780, 3777
	1 '		No	
IBM 3270 emulation	No	No	NO	Yes
PERIPHERAL EQUIPMENT	5 1 1001ID 5151ID	5 4 54545	5: 1 400145 540145	
Disks supported	Fixed: 160MB, 515MB	Fixed: 515MB	Fixed: 160MB-512MB	Fixed: 33MB-620MB Removable: 76MB-288MB
Serial printers	180 cps	180 cps	180 cps	120-192 cps
Letter-quality printers	35-55 cps	35-55 cps	35-55 cps	20-55 cps
Line printers	150-2000 lpm	150-2000 lpm	150-2000 lpm	250-1100 lpm
Nonimpact printers	None	None	None	Laser: 8/12/24 ppm
Reel-to-reel tape drives	45/75 ips	75 ips	45/75 ips	30-75 ips
Streaming tape drives	None	None	None	None
Cassette/cartridge tape drives	55 ips	55 ips	55 ips	30 ips
Other peripherals supported	Diskette 650MB	Diskette 650MB	Diskette 650MB	Diskette 360KB
other peripherale supported	Biskette Goottis	Biokoko odowis	Diakotto Godinio	Diskette Gooks
SOFTWARE				
Assembler	34	84	84	M A
	Macro	Macro	Macro	Macro Assembler
Compilers	Basic, Recall	Basic, Recall	Basic, Recall	Cobol, Basic, PL/1, Fortran 77, RPG II
Operating system name	Ultimate	Ultimate	Ultimate	Wang VS OS
Operating system	Multitasking	Multitasking	Multitasking	Realtime, multitasking
Operating system implemented in firmware		Fully	Fully	Partially
Database management system	Ultimate (Pick-generic)	Ultimate (Pick-generic)	Ultimate (Pick-generic)	Pace, VS DMS Total
	Various commercial and	Various commercial and	Various commercial and	Tace, Vo Divio Total
Principal industry application	4	1		1-
Other peakers	business applications	business applications	business applications	
Other packages	UltiWord, UltiPlot,	UltiWord, UltiPlot,	UltiWord, UltiPlot,	
	UltiCalc, UltiNet	UltiCalc, UltiNet	UltiCalc, UltiNet	
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PRICING & AVAILABILITY				
Basic system configuration and price	6200 cpu, 512KB memory,	5X Ultimate co-processor	7X Ultimate co-processor	CPU, 1024KB memory,
	3X Ultimate coprocessor,	and full control panels,	and 4K cache memory,	76MB fixed disk,
	51/4" diskette, 256 ports	battery backup, 512KB	1MB EDAC memory and	2 workstations—
	—\$69,000	EDAC memory, 51/4 diskette	controller Model 70/20,	\$21,000
	1	256 ports—	I/O processor, 256 ports	
	1	\$119,000	—\$179,000	
	1	1	1	1
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	\$370	\$370	I	\$110
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