## UNIVAC 1100 Series

NINE THOUSAND REMOTE (NTR) 9000 INTERFACE: Enables a UNIVAC 9200/9300, $90 / 30$, or $90 / 40$ computer system equipped with a Data Communications Subsystem (DCS) or Communications Adapter to operate as a remote batch terminal to an 1100 Series host processor through full-duplex communications lines. Fieldata, ASCII, and EBCDIC codes can be handled. NTR supports 9000 Series systems configured with the 0711 and 0716 card readers, 0603 and 0604 card punches, the bar printer and the 0768-00, 0768-02, 0768-99, and 0770 printers, a CalComp plotter, and paper tape reader/punches. Provisions are available for off-line operation of the 9000 Series computer and for diagnostic services for the 9000 Series peripherals. The software supports console-to-console communications between the 1100 Series host processor and the remote 9000 Series system and handles message compression to enhance communications line efficiency. Message integrity and recovery are achieved by assigning a unique number to each message transmitted in both directions. NTR was announced in 1974 and can be tailored to each installation through a relatively straightforward Symbolic Stream Generator.

COBOL: The newest and most powerful COBOL compiler offered by UNIVAC is 1100 Series ASCII COBOL. This compiler implements the modules of the 1974 American National Standard COBOL. Numerous extensions are also included. The ASCII COBOL compiler is re-entrant and produces re-entrant code.

ASCII COBOL recognizes ASCII characters as the standard data code at both source and object time, with 6-bit Fieldata character code handling facilities available as an option. In addition to the character modes, binary and floating-point data forms are supported. Some of the 1974 American National Standard COBOL facilities implemented include: Debugging, Report Writer, Communications (via TIP or Message Control System), and the INSPECT, STRING, and UNSTRING verbs. Principal language extensions based on CODASYL development efforts include: data base management (via DMS), interprogram communication, and asynchronous processing. Additional nonstandard extensions include: debugging features (including MONITOR and EXHIBIT), a TRANSFORM verb to develop one character string from another, expanded forms control facilities including 160 -character print line and variable print density control, indexed sequential file handling including generic START and conditional START facilities, and numerous compatibility features for upgrading from earlier 1100 COBOLs or other vendors' COBOLs.

UNIVAC also offers a conversational COBOL Processor (BCOB) that permits time-sharing users to construct, edit, and debug COBOL programs from demand terminals. BCOB executes as a fully re-entrant submodule of the conversational Time-Sharing System (CTS) and supports the full CRT command set. Its syntax analysis facilities are compatible with both ASCII COBOL and an earlier Fieldata COBOL compiler. Syntax analysis is performed either state-ment-by-statement as the program is entered from the terminal or in blocks as the program is called from the file system.

ASCII FORTRAN: ASCII FORTRAN is a new, re-entrant UNIVAC FORTRAN compiler that handles ASCII data codes and contains useful extensions for the manipulation of both numeric and non-numeric data. The ASCII FORTRAN language is an extension of the previous UNIVAC FORTRAN V language and implements the new FORTRAN 77 Standard. It contains features specified by the standard as well as many language extensions, including the following ASCII extensions. A CHARACTER typestatement allows handling of character variables, character scalars, and character arrays. A set of character operations is provided, including concatenation of strings, relational comparisons
of strings, character-valued functions, and a string function that permits character variables to be extracted from or assigned to substrings of character variables. ASCII FORTRAN provides the double-precision complex data type, in which complex numbers are represented internally as a pair of double-precision floating-point numbers. This data type supports a precision of approximately 17 significant decimal digits and an exponent range of 10-308 to $10^{308}$ for both real and imaginary components of a complex number. ASCII FORTRAN also expands the use of expressions by permitting expressions to be used in positions that previously (in FORTRAN $V$ only) allowed simple variables or array elements.

ASCII FORTRAN is a four-pass, re-entrant, commonbanked compiler that provides for extensive optimization, generates re-entrant programs, and contains facilities designed to fully utilize $\mathbf{1 1 0 0}$ Series hardware features and the operating system. Some of these features are I/O data format compatibility, interlanguage communication with COBOL and PL/1, sort/merge capability, and an interface with DMS 1100. In addition, the ASCII FORTRAN compiler contains a checkout option that provides for direct execution of FORTRAN programs and subroutines, with interactive debugging also provided.

UNIVAC also offers a re-entrant ASCII FORTRAN Syntax Analyzer (BTFN), which is used in conjunction with the Conversational Time-Sharing software. BFTN aids the timesharing user in constructing, editing, and debugging the syntax of ASCII FORTRAN programs from a demand terminal.

ALGOL: UNIVAC's NU ALGOL language is based upon ALGOL 60, extended through the provision of input/output logic, facilities for complex and doubleprecision arithmetic, and the ability to name strings. Procedures written in FORTRAN V or Assembler language can be included. The ALGOL compiler runs under 1100 Operating System control.

BASIC: UNIVAC's BASIC compiler is an interactive processor that accepts source-language statements from remote users, checks their syntax, and issues diagnostics immediately whenever it detects an error. After the whole program has been checked, a RUN command causes it to be compiled and executed. A file controller package permits manipulation of saved program files, and re-entrant capability enables multiple time-sharing terminals to use the compiler simultaneously. The system need not be dedicated exclusively to BASIC operations.

JOVLAL: UNIVAC offers an 1100 Series compiler for JOVIAL, a general-purpose procedure-oriented language that is used mainly in military command and control applications.

PL/1: The 1100 Series PL/1 compiler is UNIVAC's implementation of the multipurpose programming language which has been proposed for standardization by ANSI and the European Computer Manufacturers Association (ECMA). Compilations can be performed with or without optimization. An extensive library of re-entrant run-time support routines complements the re-entrant code generated by the compiler with arithmetic computations, service subroutines such as input/output functions, dynamic program and storage management, and error and interrupt processing. Advanced facilities such as teleprocessing are scheduled for future release.

RPG: The 1100-Series RPG is upward-compatible with UNIVAC Series 70 RPG. It supports sequential, indexed sequential, and table files and provides common reportwriting features such as input data selection, editing, calculation, multiple report files, summarizing, control
breaks, and file updating. During program generation, storage areas are automatically assigned, constant factors are included, and linkages are produced to routines for input/output operations and calculations. Indexed sequential files are processed through an interface with the Index Sequential File Management System (ISFMS).

ASSEMBLER: The 1100 Series Meta-Assembler (MASM) is capable of generating code for any binary machine, but is tailored to be especially efficient for the 1100 Series instruction set. MASM provides all the conventional features of an assembler: code and data generation, symbol definition, space definition, and external communication with separately constructed elements. As an assembler, MASM is highly compatible with (and a replacement for) the 1100 Series Assembler (ASM).

UTILITY ROUTINES: Both a Sort/Merge Processor and a user subroutine are available. The processor is a completely self-contained parameter-driven program which is capable of ordering and/or merging data sets having a wide variety of keys and characteristics. The subroutine, which is an integral part of the processor, uses a replacement selection technique for internal sorting, writes strings on either magnetic tape or drum, and permits insertion of the user's own coding. Either fixed or variable-length items can be handled. Multiple sort keys and user-defined collating sequences can be used.

The 1100 Operating System includes an ample complement of utility routines to perform common functions such as I/O control, data transcription, file maintenance, editing, snapshots, and dumps.

MATH-PACK and STAT-PACK are large collections of FORTRAN-coded subroutines that can be integrated into users' FORTRAN V programs to handle a broad range of mathematical and statistical functions.

UNIVAC also offers a variety of conversion routines designed to facilitate the conversion to 1100 Series formats of programs and data files written for the UNIVAC Series 70, IBM System/ 360 and 370, and several other computer families.

APPLICATION PROGRAMS: The 1100 Series application packages currently available from UNIVAC include:

APT (Automatically Programmed Tools)
ASET (Author System for Education and Training)
FMPS (Functional Mathematical Programming System)
GPSS 1100 (General Purpose System Simulator)
OPTIMA (Project Management System)
PERT/Time and PERT/Cost
SIMULA (Simulation Language)
SIMSCRIPT I. 5 (Simulation Programming Language)
UNIS (UNIVAC Industrial Systems); includes Bill of Materials Processor, Inventory Control, and Planning and Scheduling.

## PRICING

EQUIPMENT: The following systems illustrate the wide range of configurations that are possible within the UNIVAC 1100 Series. All can use the 1100 Operating System. All necessary control units and adapters are included in the indicated prices.

SMALL 1100/10 SYSTEM: Consists of one 1100/10 Processor with 131K words of MOS main memory and four I/O channels, system console, real-time maintenance communications interface, two multi-subsystem adapters, two 8425 Disk Drives, four 9-track Uniservo 14 Magnetic Tape Units ( 96 KB ), one $1000-\mathrm{cpm}$ Card Reader, and one $760-\mathrm{lpm}$ Printer. Purchase price is $\$ 827,388$.

LARGE 1100/10 SYSTEM: Consists of two 1100/10 Processors with 262 K words of MOS main memory and 16 I/O channels, two system consoles, four 8434 Disk Drives, two 8405 Fixed-Head Disk Drives, eight 9-track Uniservo 16 (192KB) Tape Units, Communications/Symbiont Processor with 98K bytes of memory, $1000-\mathrm{cpm}$ Card Reader, $250-\mathrm{cpm}$ Card Punch, $1400-\mathrm{lpm}$ Printer, and eight communications lines. Purchase price is $\$ 2,373,376$.

SMALL UNIVAC 1100/20 SYSTEM: Consists of one 1100/20 Processor with 131K words of MOS main memory and four I/O channels, Display Console, two 8430 Disk Drives and unbuffered 5039 Controller ( 200 million bytes), four 7-track Uniservo 12 Magnetic Tape Units (34KC), 1000-cpm Card Reader, 250-cpm Card Punch, and $900-\mathrm{lpm}$ Printer. Purchase price is $\$ 1,045,045$.

LARGE 1100/20 SYSTEM: Consists of one 1100/20 Processor with 262 K words of MOS main memory and eight I/O channels, Display Console, three FH-432 Drums (4.7 million characters), three 8433 Disk Drives and buffered 5039 Controller ( 600 million bytes), six 7-track Uniservo 16 Magnetic Tape Units ( 96 KB ), and Communications/Symbiont Processor (with 98 K bytes of storage, $1000-\mathrm{cpm}$ Card Reader, 800-lpm Printer, 250-cpm Card Punch, General Purpose Communication Channel, and four synchronous and four asynchronous communications lines). Purchase price is $\$ 1,797,445$.

SMALL 1100/40 $1 \times 1$ SYSTEM: Consists of one CAU, one IOAU and eight channels, 32 K words of Primary Storage, 131 K words of Extended Storage, System Console, three 8433 Disk Drives ( 600 million bytes) and buffered 5039 Controller, six 9-track Uniservo 16 Magnetic Tape Units ( 192 KB ), and Communications/Symbiont Processor (with 98K bytes of storage, 1000-cpm Card Reader, $800-\mathrm{lpm}$ Printer, 250-cpm Card Punch, General Purpose Communications Channel, and four asynchronous and four synchronous communications lines). Purchase price is $\mathbf{\$ 8 4 0 , 9 3 4}$.

MEDIUM 1100/40 $2 \times 1$ SYSTEM: Consists of two CAU's, one IOAU and eight channels, 131 K words of Primary Storage, $\mathbf{5 2 4 K}$ words of Extended Storage, System Console, one FH-432/1782 Drum Subsystem (2.4 million words), three 8433 Disk Drives ( 600 million bytes) and buffered control, six 9-track Uniservo 16 Magnetic Tape Drives (192KB), and Communications/Symbiont Processor (with 98 K bytes of storage, $\mathbf{1 0 0 0 - c p m ~ C a r d ~}$ Reader, $\mathbf{2 5 0 - \mathrm { cpm }}$ Card Punch, 800-1pm Printer, GeneralPurpose Communication channel, and four synchronous and four asynchronous communication lines). Purchase price is $\mathbf{\$ 1 , 8 5 9 , 9 3 4}$.

LARGE 1100/40 $4 \times 2$ SYSTEM: Consists of four CAU's and two IOAU's with eight channels each, 131 K words of Main Storage and 1,048K words of Extended Storage, three System Consoles, System Partitioning Unit, two FH-432/1782 Drum Subsystems and dual-channel controllers, six 8433 Disk Drives ( 1.2 billion bytes) and buffered control, twelve 9-track Uniservo 16 (192KB) Magnetic Tape Units and dual-access control, and two Communications/Symbiont Processors (each with 98 K bytes of storage, $1000-\mathrm{cpm}$ Card Reader, $250-\mathrm{cpm}$ Card Punch, $800-$ lpm Printer, General Purpose Communication Channel, and four synchronous and four asynchronous communication lines). Purchase price is $\mathbf{\$ 6 , 6 2 6}, 234$.

SMALL 1100/80 SYSTEM: Consists of one 1100/80 Processor with $1 / \mathrm{O}$ unit, 4 K words of buffer storage, 524 K words of backing store, system console, one word channel module with ESI/ISI capability, eight 8434 Disk Drives, two 9-track Uniservo 30 Tape Units, four Uniservo 32 Tape Units, $1000-\mathrm{cpm}$ Card Reader, $250-\mathrm{cpm}$ Card Punch, $1400-$ lpm printer, and four dial-up asynchronous communications lines. Purchase price is $\mathbf{\$ 2 , 1 3 2 , 6 8 5}$.

LARGE 1100/80 SYSTEM: Consists of two 1100/80 Processors, two IOU's, two word channel modules, two system consoles, 16 K words of buffer storage, 1024 K words of backing store, twelve 8434 Disk Drives, two 8433 Disk Drives, two 8405 Disk Drives, four 9-track Uniservo 30 Tape Units, four Uniservo 34 Tape Units, four Uniservo 36 Tape Units, 2000-lpm printer, one Communications/Symbiont Processor with 98 K bytes of memory, 1000-cpm Card Reader, 250-cpm Card Punch, 1400-lpm Printer, and eight communications lines. Purchase price is approximately $\mathbf{\$ 4 , 8 0 2 , 3 7 0}$.

TERMS, SOFTWARE, and SUPPORT: The 1100 Series is available for purchase or lease. All software except the operating system is unbundled. On-site service for operating system support can be obtained for a flat monthly fee of $\$ 500$ or by an hourly rate. Support for unbundled software is included in the license fee.

TRACE: Sperry Univac has initiated a new remote hardware maintenance concept through its facility in Roseville, Minnesota. The Total Remote Assistance Center (TRACE) is available to the $1110,1100 / 40,1100 / 80$, and, to a limited extent, 1100/10 and 1100/20 System customers via a dedicated WATS line number 24 hours per day, 7 days per week. Via TRACE, a user's system may be monitored and controlled using on-site and remote library testing programs. TRACE also provides support for a wide range of Sperry Univac terminals connected to dial-up lines. Various data files in Roseville contain information on approved hardware changes, references to solutions for problems encountered with diagnostic test software in field use, and operating system enhancements and problems. Other files contain a history of how the system should operate. These files can be utilized for comparison purposes during diagnostic testing.

CONTRACT TERMS: The standard UNIVAC use and service agreements allow unlimited use of the equipment (exclusive of the time required for remedial and preventive maintenance). There are no extra-use charges. The basic maintenance charge covers maintenance of the equipment for nine consecutive hours a day between the hours of 7 a.m. and 6 p.m., Monday through Friday. Extended periods of maintenance are available at premium rates. The premiums for additional coverage are a percentage of the base maintenance rate and are as follows

Monday through Friday Saturday Sunday and Holidays

Hours of Coverage
$4 \underline{8} \underline{9} \underline{10} \underline{12} \underline{16} \underline{18} \underline{20} \underline{24}$
$\begin{array}{lllllllll}- & - & 0 & 10 & 20 & 25 & 35 & 40 & 45\end{array}$
$589-1112-1415$
$71012-1416-1820$

Maintenance service performed outside the contracted maintenance period is subject to the following rates:

|  | Monday through <br> Saturday | Sunday and <br> Holidays |  |
| :--- | :---: | :---: | :---: |
|  | $\mathbf{S 1 0 8}$ |  | $\mathbf{\$ 1 2 8}$ |
| Min. charge per call | 54 |  | 64 |
| Each add'l. hour | 270 |  | 320 |

For users who elect not to contract for maintenance with Univac, the following per-call rates apply:

|  | Monday through <br> Friday | Overtime and <br> Saturday |  | Sunday and <br> Holidays |
| :--- | :---: | :---: | :---: | :---: |
|  |  |  |  | $\$ 112$ |
| Min. charge | $\$ 100$ |  |  | $\$ 132$ |
| Each add'l. hour | 50 |  | 56 |  |

On-call maintenance is also subject to travel time and expense charges.

UNIVAC offers reduced maintenance rates for multipleprocessor installations. The percent premiums listed below apply to installations containing two or more processors or systems of the same type and located at the same address.

|  | Two-Processor Installation <br> Hours of Coverage |  |  |
| :--- | :--- | :---: | :---: |
|  | $\underline{9}$ | $\underline{16}$ | $\underline{24}$ |
|  | 0 | 15 | 27.5 |
| Monday through Friday | 0 | 8 | 10 |
| Saturday | 7.5 | 10 | 12.5 |

Three or More Processors Hours of Coverage

|  | 9 |  | 16 | $\underline{24}$ |
| :--- | :---: | :---: | :---: | ---: |
|  | 0 |  | 12 | 22 |
| Monday through Friday | 0 | 6.5 | 8 |  |
| Saturday | 5 |  | 8 | 10 |

LONG-TERM LEASES: In addition to the basic 1-year agreement, UNIVAC offers an extended-term 5-year lease at significantly lower monthly rates. Under the 5-year "levelpayment" agreement, the monthly equipment charge is approximately 75 percent of the 1 -year rental rate shown in the accompanying price list.

UNIVAC also offers a 7-year lease to state and local governments and to educational institutions. Educational institutions are eligible for an additional 10 percent discount. The discount does not apply to maintenance service charges. ${ }^{[ }$

## EQUIPMENT PRICES

|  |  | Rental <br> (1-year <br> lease) |
| :--- | :--- | :--- | :--- | :--- |
| 1106 | PROCESSORS AND MAIN STORAGE |  |

## UNIVAC 1100 Series

## EQUIPMENT PRICES

|  | UIPIENT PRICES | Purchase Price | Monthly Maint. | Rental (1-year lease)* |
| :---: | :---: | :---: | :---: | :---: |
| 1106 PROCESSORS AND MAIN STORAGE (Continued) |  |  |  |  |
| 7013-78 | Unitized Storage Expansion; expands main storage from 262,144 to 393,216 words; requires F2252-00 addressing expansion feature | 96,000 | 844 | 2,300 |
| 7013-77 | Unitized Storage Expansion; expands main storage from 393,216 to 524,288 words | 96,000 | 844 | 2,300 |
| F2252-00 | Addressing Expansion Feature; required on 1106 processors with more than 262K words of Unitized Storage | 9,600 | 13 | 200 |
| Storage II (Multi-Modular); 1.0-microsecond cycle time: |  |  |  |  |
| 7005-42 | 131,072 words; two 64K modules | 534,144 | 1,343 | 11,128 |
| 7005-41 | 196,608 words; three 64 K modules | 803,376 | 1,942 | 16,737 |
| 7005-40 | 262,144 words; four 64K modules | 1,072,896 | 2,535 | 22,352 |
| 4009-99 | Display Console; includes control console, entry keyboard, CRT display, and page printer; one required with each 1106 processor | 42,240 | 458 | 880 |
| F0774-00 | Auxiliary Console; required when CTMC's are used | 8,784 | 18 | 183 |

## 1106 MULTIPROCESSOR SYSTEM COMPONENTS

Minimum multiprocessor configuration with unitized storage consists of two 1106 processors, two F1053-98 capability features, two display consoles, two 128 K modules of unitized storage, two unitized MMA's, and one availability control unit. Minimum multiprocessor configuration with Storage II consists of two 1106 processors, two F1053-98 capability features, two display consoles, 128K words of 7005 Storage II, two Storage II MMA's, and one availability control unit.

| 2506-00 | Availability Control Unit for up to 2 processors, 4 MMA's, and 6 SPI's; expandable to a maximum <br> of 24 SPI's |
| :--- | :--- |
| F0874-00 | ACU Expansion for up to six additional SPI's |
| 0955-04 Shared Peripheral Interface; permits two processors to share a peripheral subsystem <br> Shared Peripheral Interface; same functional characteristics and shares a cabinet with 095-05 095-04 SPI <br> F1384-98 <br> 0954-99 Unitized MMA; allows two processors to access a 128 K module of unitized storage <br> Storage II MMA; allows two processors to access a 64 K module of 1.0 -microsecond Multi-Modular <br> Storage <br> 1100/10 PROCESSORS AND MAIN STORAGE  |  |


| 62,256 | 144 | 1,315 |
| ---: | ---: | ---: |
| 3,552 | 14 | 74 |
| 24,528 | 33 | 511 |
| 21,840 | 26 | 460 |
| 45,312 | 104 | 944 |
| 67,488 | 68 | 1,406 |


| 3051-99 | 1100/10 Processor with 128K-word control memory; double-precision floating point, four I/O channels, power distribution center, control console with CRT display and entry keyboard, hardcopy printer, real-time maintenance communication (RTMCS) interface, and 131 K words of main storage; requires card reader |
| :---: | :---: |
| 3051-97 | 1100/10 Processor; same as 3051-99 processor, but includes 196K words of main storage, 5046-99 disk control, and 8434 disk drive |
| 3051-95 | 1100/10 Processor; same as 3051-97 processor, but includes 262 K words of main storage |
| 3051-93 | 1100/10 Processor; same as 3051-95 processor; but includes two main storage units with 262 K words of main storage |
| 3051-91 | $1100 / 10$ Processor; same as 3051-93 processor, but includes two main storage units with 524 K words of main storage |
| F2882-00 | Processor Performance Enhancement; provides 10 to 20 percent greater performance for 1100/10 processor |
| 3011-79 | Processor Expansion; provides a processor and system console for expansion of an 1100/10 system to a multiprocessor; prerequisite is an 1100/10 processor with 128 K storage expansion (7036-99); also requires two F1053-98 multiprocessor capability features plus two F2249-00 MMA's |
| 3051-89 | 1100/10 Processor; same as 3051-99 processor, but includes fast 196K words of main storage, 5046-99 disk control, and 8434 disk drive |
| 3051-87 | 1100/10 Processor; same as $3051-89$ processor, but includes 262 K words of main storage |
| 3051-85 | 1100/10 Processor; same as 3051-89 processor, but includes two main storage units with 262K words of main storage |
| 3051-83 | 1100/10 Processor; same as 3051-89 processor, but include two main storage units with 524 K words of main storage |
| 301 | 1100/12 Multiprocessor; two 1100/10 processors with F1053-98 |
| F0680-99 | 1/O Channel Expansion; four additional I/O channels; maximum of three expansions per 110/10 processor |
| F1053-98 | Multiprocessor Capability for 1100/10 processor; one required per processor |
| 0769-10 | Console Printer; 132 -column, $30-\mathrm{cps}$ free-standing printer for use as an additional hard-copy device on the 1100/10 processor console; up to five printers permitted per 1100/10 processor |
| 7036-99 | Storage Expansion, 128 K ; provides cabinet with 131,072 words of storage and space for one additional 128 K expansion module via feature F2248-99; maximum of three type 7036-99 storage units per system |
| F2248-99 | Storage Expansion, 128K; provides 131,072 words of additional storage from 1100/10 processor ( 3011 -81) or 7036-99 storage unit; maximum of two F2248-99 storage expansions is allowed |
| F2249-00 | Multi-Module Access (MMA) for multiprocessor applications only; allows a maximum of two $1100 / 10$ processors to access a 7036 storage unit |


| 320,540 | 2,341 | 7,349 |
| ---: | ---: | ---: |
|  |  |  |
| 343,110 | 3,100 | 10,509 |
| 407,630 | 3,310 | 12,239 |
| 428,560 | 3,446 | 12,778 |
| 690,000 | 4,406 | 20,768 |
|  |  |  |
| 27,380 | 171 | 740 |
| 256,752 | 1,785 | 5,349 |
|  |  |  |
|  |  |  |
| 366,285 | 3,253 | 11,135 |
| 434,000 | 3,478 | 12,950 |
| 455,940 | 3,617 | 13,515 |
| 730,500 | 4,628 | 21,905 |
| $1,127,890$ | 6,260 | 33,141 |
| 25,200 | 90 | 525 |
| 10,368 | - | 216 |
| 16,800 | 59 | 350 |
| 170,000 | 556 | 4,615 |
|  |  |  |
| 134,000 | 419 | 3,460 |
| 45,312 | 82 | 944 |

## 1100/20 PROCESSORS AND MAIN STORAGE

| 3051-81 | 1100/20 Processor with 128K-word control memory, double-precision floating point, four I/O channels, power distribution center, control console with CRT display and entry keyboard, hardcopy printer, real-time maintenance communication (RTMCS) interface; requires 128 K words of main storage and card reader | 324,685 | 1,874 | 7,430 |
| :---: | :---: | :---: | :---: | :---: |
| F0680-99 | 1/O Channel Expansion; provides four additional I/O channels; maximum three expansions per 1100/20 processor | 25,200 | 90 | 525 |

*Rental prices do not include equipment maintenance.

## UNIVAC 1100 Series

## EQUIPMENT PRICES

|  | QUIPMENT PRICES | Purchase Price | Monthly Maint. | Rental (1-year lease)* |
| :---: | :---: | :---: | :---: | :---: |
| 1100/20 PROCESSORS AND MAIN STORAGE (Continued) |  |  |  |  |
| F1053-98 | Multiprocessor Capability for each 3011-83 processor in a multiprocessor system | 10,368 |  | 216 |
| 0769-10 | Incremental Printer; provides a 132 -column, $30-\mathrm{cps}$, free-standing printer for use as an additional hard-copy device on the 1100/20 processor console; up to five printers permitted per processor | 16,800 | 59 | 350 |
| 7033-97 | Storage, 65,536 words; includes a cabinet with space with an additional 64 K words via F2079-00 expansion; maximum four 8033-97 storage units per processor | 162,240 | 441 | 3,900 |
| F2079-99 | Storage Expansion, 65,536 words | 87,360 | 236 | 2.100 |
| F2080-97 | Multi-Module Access (MMA) for multiprocessor application only; allows a maximum of two 1100/20 processors to access a 7033 storage unit | 45,312 | 82 | 944 |
| 1100/20 MULTIPROCESSOR SYSTEM COMPONENTS |  |  |  |  |
| 2506-04 | Availability Control Unit (ACU); required for multiprocessor applications | 62,256 | 144 | 1,315 |
| F0874-00 | ACU Expansion; expands the SPI Access capability of the ACU by six SPI's; maximum of three expansions may be added | 3,552 | 14 | 74 |
| 0961-99 | Multi-Subsystem Adapter (MSA); includes cabinet, I/O interface, one MSA module to adapt from one to eight byte-oriented subsystems, and space for one D1321-02 MSA module | 26,976 | 71 | 562 |
| MSA Features for 1106, 1100/20, 1110, 1100/40: |  |  |  |  |
| F1321-99 | MSA Expansion; provides second MSA module with power supply to expand 0961-99 MSA; includes one I/O interface | 21,504 | 54 | 448 |
| F1324-02 | Shared Peripheral Interface (SPI); provides one I/O interface for 0961-99 MSA or F1321 MSA expansion | 6,600 | 34 | 136 |
| F1323-00 | Function Buffer Expansion; adds six function registers to an MSA Function Buffer for expanding command chaining capability; required for disk operation | 2,208 | 11 | 46 |
| F1325-00 | ASCII Translator; translates Fieldata code to and from a 64-character subset of ASCII; maximum two per MSA module | 2,064 | 12 | 43 |
| F1325-01 | EBCDIC Translator; same as F1325-00 except translates Fieldata to and from a 64-character subset of EBCDIC | 2,064 | 12 | 43 |
| F1322-00 | Search Identifier Register (SIR); provides storage for up to 12 bytes of parameter (search) data required for disk operations | 2,208 | 11 | 46 |
| 0955-99/-04 | SPI; provides control of a peripheral subsystem as a multi-access subsystem | 24,528 | 33 | 511 |
| 0955-98/-05 | SPI; although functionally independent, shares cabinet with and has the same characteristics as 0955-99 SPI | 21,840 | 26 | 460 |
| F1095-99 | 1100/9000 Inter-Computer Control Unit (ICCU); permits a 9300 Series system to communicate on-site in 36 -bit word format | 11,184 | 60 | 233 |
| 1110 PROCESSORS AND I/O CONTROL** |  |  |  |  |
| 3023-95 | 1110 Processor (CAU); includes eight I/O channels and interfaces for up to 262,144 words of main storage and $1,048,576$ words of extended storage; requires 32 K words main storage, 128 K words of extended storage, card reader, and system console; maximum three CAU expansions and three IOAU expansions | 617,856 | 3,071 | 14,850 |
| 3023-00 | CAU Expansion; provides one additional CAU; requires 64 K words of main storage, 256 K words of extended storage, and system console (use of a second CAU expansion requires 96 K words main storage, 256 K words of extended storage; system partitioning unit, IOAU expansion, and two system consoles; use of a third CAU expansion has same prerequisites, except requires 128 K words of main storage with 12 MMA interfaces) | 355,968 | 851 | 8,550 |
| 3025-00 | 1/O Access Unit Expansion; provides control and 8 I/O channels, interface for up to 256 K words of main storage; interface for up to $1,048 \mathrm{~K}$ words of extended storage, and 2 control channels to interface to 2 CAU 's; expandable to 24 I/O channels (the number of IOAU expansions cannot exceed the number of CAU expansions) | 191,520 | 944 | 4,600 |
| F1387-00 | I/O Channel Expansion; Channels 8-15 | 20,160 | 52 | 485 |
| F1387-01 | 1/O Channel Expansion; Channels 16-23; requires F1387-00 channel expansion | 20,160 | 52 | 485 |
| 4013-99 | System Console; includes CRT display with entry keyboard, hard-copy printer; and real-time maintenance communication (RTMCS) interface; requires one I/O channel; up to five additional 0769-01 printers may be added | 79,824 | 355 | 1,663 |
| 0769-10 | Console Printer; 132 columns, 30-cps; maximum five per 4013-99 console | 16,800 | 59 | 350 |
| For 1110 and 1100/40: |  |  |  |  |
| 2516-00 | System Partitioning Unit; includes interfaces for two CAU's, two IOAU's, two MSU's, four MAI's, and six MAS's; required when two or more CAU expansions are present | 60,720 | 165 | 1,460 |
| F1448-00 | CAU Interface Expansion for third and fourth CAU's | 6,240 | 12 | 150 |
| F1449-00/01 | IOAU Interface Expansion for third and fourth IOAU's | 6,240 | 12 | 150 |
| F1450-00/01 | MSU Interface Expansion for third and fourth main storage unit | 4,080 | 12 | 98 |
| $\begin{aligned} & \text { F1451-00 } \\ & \text { to } 03 \end{aligned}$ | MAI Interface Expansion for fifth through eighth MAI, respectively | 3,552 | 12 | 85 |
| $\begin{aligned} & \text { F1441-00 } \\ & \text { to } 06 \end{aligned}$ | MAS Interface Expansion; each accommodates six additional Multi-Access Subsystems, for up to 48 total | 3,024 | 5 | 72 |
| 0789-99 | SPI Expansion; adds third interface | 4,176 | 5 | 87 |
| 0789-98 | SPI Expansion; adds fourth interface | 2,880 | 5 | 60 |
| F1095-99 | 1100/9000 Inter-Computer Control Unit for on-line connection of a Univac 9000 Series computer | 11,184 | 60 | 233 |
| 1100 MAIN STORAGE (PLATED WIRE) |  |  |  |  |
| $\begin{aligned} & \text { 7015-00 } \\ & \text { F1331-00 } \end{aligned}$ | Primary Storage Subsystem; includes basic MMA, eight interfaces, and cabinet 64K Storage Expansion Module (expands total main storage from 32,768 to 65,536 words) | $\begin{aligned} & 338,592 \\ & 288,624 \end{aligned}$ | 495 338 | 7,054 6,013 |
| 7015-99 | Storage Expansion Subsystem; 32,768 words (expands total main storage from 65,536 to 98,304 words) | 338,592 | 495 | 7,054 |
| F1331-99 | 128K Storage Expansion Module (expands total main sotrage from 98,304 to 131,072 words) | 288,624 | 338 | 6,013 |

## UNIVAC 1100 Series

|  |  | Purchase Price | Monthly Maint. | Rental (1-year lease)* |
| :---: | :---: | :---: | :---: | :---: |
| 1100 MAIN STORAGE (PLATED WIRE) (Continued) |  |  |  |  |
| 7015-93 | Storage Expansion Subsystem; 65,536 words (expands total main storage from 131,072 to 196,608 words) | 125,000 | 834 | 4,500 |
| 7015-92 | Storage Expansion Subsystem; 65,536 words (expands total main storage from 196,608 to 262,144 words) | 125,000 | 834 | 4,000 |
| $\begin{aligned} & \text { F1330-00 } \\ & \text { to }-03 \end{aligned}$ | MMA Expansion; adds four interfaces to 32 K storage module; all storage expansion modules require equal MMA expansions | 8,592 | 11 | 179 |
| F1330-99/98 | MMA Expansion; adds four interfaces to 65 K storage module; all storage expansion modules require equal MMA expansions | 8,592 | 11 | 179 |
| 1110 EXTENDED STORAGE (CORE) |  |  |  |  |
| 7013-81 | Unitized Storage; 131,072 words, 1.5 -microsecond cycle time (requires one MAI or one MAI expansion) | 220,512 | 844 | 5,290 |
| 7013-73 | Unitized Storage; 131,072 words for between 524 K and 1048 K words; requires one MAI or one MAI expansion | 96,000 | 844 | 2,300 |
| 7033-99 | 131,072 words of storage; requires one 0963-00 MAI or one F1394-00 MAl expansion | 249,600 | 678 | 6,000 |
| 0963-00 | Multiple Access Interface; provides four interfaces and control for one 7013-81 (can be used with 1108 Storage, Type 7005, if F1397-00 is also used) | 52,416 | 158 | 1,260 |
| F1394-00 | MAI Expansion; adds a second MAI to an 0963-00 | 23,808 | 100 | 570 |
| F1393-00 | MAI Interface Expansion; adds three more interfaces to an 0963-00 | 14,064 | 26 | 340 |
| F1393-01 | MAI Interface Expansion; adds second set of three additional interfaces to an 0963-00 | 14,064 | 26 | 340 |
| F1397-00 | 1108 Storage Interface; permits use of one 65K module of 1108 Storage, Type 7005, as Extended Storage | 10,608 | 19 | 255 |
| F1384-99 | MMA Expansion; provides two additional interfaces for 7013-81 storage unit | 3,936 | 12 | 95 |
| F2080-99 | MMA Expansion; provides one additional interface for 7033-99 storage unit | 3,936 | 12 | 95 |
| 1100/40 PROCESSORS AND I/O CONTROL |  |  |  |  |
| 3023-89 | 1100/40 Processor ( $1 \times 1$ ); includes one CAU and one IOAU with eight channels; requires 196 K words of main storage, card reader, and console | 457,790 | 3,071 | 12,350 |
| 3023-91 | Command/Arithmetic Unit Expansion for 3023-89 processor: maximum three per system | 355,968 | 851 | 8,550 |
| 3025-99 | IOAU Expansion for 3023-89; includes control, 8 I/O channels, and 2 control channels to interface to 2 CAU's; expandable to 24 channels (number of IOAU expansions may not exceed the number of CAU expansions) | 191,520 | 944 | 4,600 |
| F1387-00 | 1/O Channel Expansion; Channels 8-15 | 20,160 | 52 | 485 |
| F1387-01 | 1/O Channel Expansion; Channels 16-23 | 20,160 | 52 | 485 |
| 4013-99 | System Console; includes CRT display with entry keyboard, hard-copy printer, and real-time maintenance communication (RTMCS) interface; requires one I/O channel; up to five additional freestanding hard-copy printers may be added | 79,824 | 355 | 1,663 |
| 0769-10 | Console Printer for use as an additional hard-copy device on the 1100/40 processor console; 132 columns, $30-\mathrm{cps}$; up to five printers permitted per console | 16,800 | 59 | 350 |
| 1100/40 MAIN STORAGE |  |  |  |  |
| 7030-93 | 192K Words Main Storage for 3023-89 processor; includes basic MMA with eight interfaces; expandable to 524 K words | 984,000 | 2,501 | 31,635 |
| 2407-98 | Storage Expansion for 7030-03 storage; 64 K words | 328,000 | 834 | 10,545 |
| 7030-98 | Storage Expansion; 64K words; requires 2407-98 expansion | 282,000 | 676 | 9,000 |
| 2407-97 | Storage Expansion; 64K words; requires 7030-98 expansion | 282,000 | 676 | 9,000 |
| 7030-97 | Storage Expansion; 64K words; requires 2407-97 expansion | 282,000 | 676 | 9,000 |
| 2407-96 | Storage Expansion; 64K words; requires 7030-97 expansion | 282,000 | 676 | 9,000 |
| F1953-00 | MMA Expansion for 7030 storage units from 8 to 12 interfaces | 8,592 | 11 | 210 |
| F1953-01 | MMA Expansion for 2407 storage units from 8 to 12 interfaces | 8,592 | 11 | 210 |
| F1953-02 | MMA Expansion for 7030 storage units from 12 to 16 interfaces | 8,592 | 11 | 210 |
| F1953-99 | MMA Expansion for 2407 storage units from 12 to 16 interfaces | 8,592 | 11 | 210 |
| 1100/40 EXTENDED STORAGE |  |  |  |  |
| 7033-99 | Extended Storage, 131,072 words; requires one 0963-00 MAI or one F1394-00 MAI expansion and 524 K words of 7030 storage | 249,600 | 678 | 6,000 |
| 0963-00 | Multiple Access Interface; provides four access interfaces and control modules for 128 K words of 7033-99 extended storage | 52,416 | 158 | 1,260 |
| F1394-00 | MAI Expansion; adds a second MAI control module to 0963-00 MAI to provide access to a 7033-99 extended storage | 23,808 | 100 | 570 |
| F1393-00 | MAI Interface Expansion; provides three access interfaces to 0963-00 MAI | 14-064 | 26 | 340 |
| F1393-01 | MAl Interface Expansion; provides second set of three access interfaces to 0963-00 MAI; requires F1393-00 expansion | 14,064 | 26 | 340 |
| $\begin{aligned} & \text { F1397-00 } \\ & \text { F2080-99 } \end{aligned}$ | 1108 Storage Interface; required for use of $7005-08,64 \mathrm{~K}$ words, as extended storage MMA Expansion; provides one additional interface for $7033-99$ extended storage | 10,608 3,936 | 19 | 255 95 |
| 1100/80 PROCESSORS AND I/O CONTROL |  |  |  |  |
| 3032-67 | 1100/80 Processor; includes full 1100 floating-point and byte instruction set, one 1/O processing unit (IOU) with one byte and one block multiplexer channel, 4 K words of buffer storage in one buffer module, 524 K words of backing store in one cabinet, system maintenance unit, transition unit, system console, and motor/alternator; expandable to 1048 K words of backing store; any further expansion requires addition of F2335-99 performance enhancement, or must be expanded as a standard 1100/81 processor; requires card reader | 1,323,455 | 2,589 | 31,985 |
| 3032-65 | 1100/81 Processor; includes same equipment as 3032-67 except provides space for an additional channel module and 8 K words of buffer storage in one module; expandable to four processors, four IOU's, 32 K words of buffer storage, and 4,194K words of backing store | 1,480,530 | 2,755 | 35,790 |
| 3032-63 | 1100/82 Multiprocessor; includes two 1100/80 processors in a tightly coupled configuration with 8 K words of buffer storage and $1,048 \mathrm{~K}$ words of backing store in two cabinets, one IOU, a system maintenance unit, a transition unit, a system console, and a motor alternator | 2,299,500 | 4,045 | 54,280 |

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## EQUIPMENT PRICES

|  |  | Purchase Price | Monthly Maint. | Rental <br> (1-year lease)* |
| :---: | :---: | :---: | :---: | :---: |
| 1100/80 PROCESSORS AND I/O CONTROL (Continued) |  |  |  |  |
| $\begin{array}{r} 3032-61 \\ 3032-29 \end{array}$ | Same as 3032-63 but backing store is in one cabinet <br> 1100/82 Dual Cluster Multiprocessor; includes two $100 / 80$ processors each with 12 K words of buffer storage, a system maintenance unit, motor alternator, IOU, and system console. Each IOU contains one byte multiplexer, one block multiplexer, and one word channel module; includes $1,572 \mathrm{~K}$ words of backing store in three cabinets | $\begin{aligned} & 2,184,510 \\ & 3,467,375 \end{aligned}$ | $\begin{aligned} & 3,845 \\ & 6,025 \end{aligned}$ | $\begin{aligned} & 51,567 \\ & 81,800 \end{aligned}$ |
| $\begin{aligned} & 3032-27 \\ & 3032-25 \end{aligned}$ | 1100/83 Cluster Multiprocessor; same as 3032-29 but three 1100/80 processors 1100/84 Cluster Multiprocessor; same as 3032-29 but four 1100/80 processors in two clusters; each cluster has 16 K words of buffer storage; includes $2,096 \mathrm{~K}$ words of backing store in four cabinets | 4,040,830 $\mathbf{5 , 1 5 7 , 0 2 0}$ | 6,995 8,775 | $\begin{array}{r} 95,336 \\ 121,680 \end{array}$ |
| 3032-89 | Expansion Cluster for 3032-91 processor; includes one CPU, 8 K words of buffer storage, one system maintenance unit (SMU); and one motor/alternator | 806,710 | 1,370 | 19,015 |
| 3032-00 | Expansion Processor; provides an additional CPU for either a 3032-91 processor or 3032-89 expansion cluster, maximum three per system | 610,720 | 1,038 | 14,420 |
| F2335-99 | Upgrades 3032-65 processor; includes 4K words of buffer storage | 174,020 | 166 | 4,105 |
| 3033-98 | IOU Expansion; provides an additional IOU for either a 3032-65 processor or 3032-89 expansion cluster | 350,825 | 733 | 8,080 |
| F2883-00 | Scientific Accelerator Module for the 1100/80 | 124,235 | 187 | 2,935 |
| F1653-00 | Emulator for 494; requires 494 word channel module and/or 494 block multiplexer channel; mutually exclusive with F2883-00 | 178,500 | 300 | 4,215 |
| 1923-00 | 1/O Channel Expansion; includes housing for four channel modules | 10,540 | 16 | 250 |
| F1656-00 | Byte Multiplexer Channel Module; transfer rate up to 200 KBS | 46,725 | 80 | 1,110 |
| F1657-00 | 494 Block Multiplexer Channel Module; transfer rate up to one megabyte/second | 46,725 | 80 | 1,110 |
| F1658-00 | 494 Word Channel Module; transfer rate up to 500K bytes per second |  |  |  |
| 5309-99 | 1100 to 494 Intercomputer Coupler | 30,240 | 89 | 630 |
| F1638-01 | 1100 Word Channel Module; four independent word channels | 54,075 | 91 | 1,275 |
| F1654-00 | 1100 Word Channel Definition; provides word channel capability to accept 36 -bit ESI communications | 1,050 | 5 | 25 |
| F2141-00 | 1100 Block Multiplexer Channel Module | 54,075 | 91 | 1,275 |
| 4013-97 | System Console | 79,824 | 355 | 1,663 |
| 0769-10 | Console Printer | 16,800 | 59 | 350 |
| 8508-08 | Motor Alternator | 22,000 | 54 | 623 |
| F3137 | Remote Control Panel | 1,020 | 3 | 25 |
| 2525 | System Availability Unit | 79,360 | 134 | 2,060 |
| F2824-00 | 24 Additional MAS Interfaces | 10,240 | 16 | 260 |
|  | Two additional IOU word channel interfaces to SAU | 12,800 | 21 | 330 |
| F2826-00 | Remote CTS Interface | 3,070 | 5 | 80 |
| F2826-01 | Second Remote CTS Interface | 3,070 | 5 | 80 |
| 2521-00 | Channel Transfer Switch for block multiplexer channels; free standing cabinet contains operator controls for manual switching of four subsystem strings, a primary module with a $2 \times 1$ switch, and power and space for $4 \times 8$ switching | 18,750 | 62 | 442 |
| 2521-02 | For remote operation | 18,750 | 62 | 442 |
| F2600-00 | Primary Module Expansion; adds a switch for one subsystem string; maximum of three per 2521, F2601-00, or F2601-02; maximum of one per F2601-01 or F2601-03 | 18,750 | 62 | 442 |
| F2601-00 | Additional Primary Module; adds a second $2 \times 1$ primary module and operator control for switching up to four subsystem strings | 9,930 | 34 | 234 |
| F2601-02 | For remote operation | 9,930 | 34 | 234 |
| F2601-01 | Secondary Module; for applications requiring independent 2 by switching capability when up to four switchable strings can be configured among independent 2 by switches | 9,930 | 34 | 234 |
| F2601-03 | For remote operation | 9,930 | 34 | 234 |
| F2602-00 | Secondary Module; expands primary module from $2 \times 1$ to $4 \times 1$ | 6,755 | 26 | 159 |
| F2602-01 | For remote operation | 6,755 | 26 | 159 |
| F2603-00 | Secondary Module; expands F2600-00 to 4 by capability | 555 |  | 13 |
| F2604-00 | DC Power Redundancy; adds back up DC supplies for hot standby dynamic power redundancy | 2,540 | 11 | 60 |
| 1100/80 MEMORY |  |  |  |  |
| F2336-00 | Storage Interface Unit (SIU) Expansion; provides 4K words of buffer storage to expand SIU's from 8 K to 12 K words | 208,150 | 353 | 5,660 |
| F2335-00 | SIU Expansion; provides 4 K words of buffer storage to expand SIU's from 12 K to 16 K words | 98,055 | 166 | 2,670 |
| $\begin{aligned} & \text { 7037-99 } \\ & \text { F2350-99 } \end{aligned}$ | Main Storage Unit; includes storage cabinet with 524 K words in two banks and power supplies Backing Storage Expansion; expands 7037-99 main storage unit to 1048K words or 3032-87 processor to 1048 K words of backing storage; maximum four per system | $\begin{aligned} & 315,000 \\ & 200,000 \end{aligned}$ | 535 321 | $\begin{aligned} & 8,575 \\ & 5,440 \end{aligned}$ |
| MASS STORAGE |  |  |  |  |
| 5031-00 | Unitized Channel Storage Control for up to 1,048,576 words of UCS storage (1106 processor only) | 43,680 | 219 | 910 |
| 7013-97 | Unitized Channel Storage; 256 K words | 289,392 | 926 | 6,029 |
| 7013-95 | Unitized Channel Storage; 512K words | 578,784 | 1,850 | 12,058 |
| 7013-93 | Unitized Channel Storage; 768 K words | 868,176 | 2,775 | 18,087 |
| 7013-91 | Unitized Channel Storage; 1024K words | 1,157,616 | 3,699 | 24,117 |
| F1375-00 | Shared Peripheral Interface; provides one additional I/O interface for 5031-00 control; maximum one per control | 23,136 | 37 | 482 |
| 5012-99 | FH-432/FH-1782 Drum Control; controls one to eight 6016-00 or 6015-00 drums in any combination | 102,720 | 406 | 2,140 |
| F0929-00 | Write Lockout Feature for 5012-00/99 drum control | 1,392 | 5 | 30 |
| F0930-00 | Shared Peripheral Interface for 5012-00/99 drum control; multiprocessor application only | 22,608 | 40 | 471 |
| 6016-00 | FH-432 Drum; 262K words | 52,848 | 166 | 1,210 |
| 6015-00 | FH-1782 Drum; 2048K words | 146,064 | 467 | 3,345 |
| F0786-01 | Dual Channel Feature for 6016-00 drum | 3,024 | 24 | 69 |
| F0767-00 | Dual Channel Feature for 6015-00 drum | 3,024 | 27 | 69 |

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## UNIVAC 1100 Series

|  |  | Purchase Price | Monthly Maint. | Rental (1-year lease)* |
| :---: | :---: | :---: | :---: | :---: |
| MASS STORAGE (Continued) |  |  |  |  |
| 5024-99 | 8424/8425 Disk Control; requires 0961 MSA or F1321 MSA expansion ( 8424 and 8425 disks may not be intermixed on the same control) | 57,072 | 469 | 1,189 |
| F1043-00 | Dual Channel Feature; provides non-simultaneous access to 5024-99 disk control from two MSA modules | 4.416 | 24 | 92 |
| F2001-00 | Dual Access and simultaneous read/write, write/read, read/read, or write/write operations on two 8425 disk drives; required for each 8425 disk drive | 2,304 | 5 | 48 |
| $\begin{aligned} & 8425-00 \\ & \mathrm{~F} 1214-01 \end{aligned}$ | 8425 Disk Storage; 312K bps Disk Pack for 8425 disk drive | $\begin{array}{r} 21,216 \\ 433 \end{array}$ | 129 | 442 |
| 5039-99 | 8433/8430 Control for up to eight and/or 8430 disk drives; includes one I/O interface and 1024 words of buffer storage; minimum two disk drives per subsystem | 101,760 | 556 | 2,445 |
| $\begin{aligned} & \text { 5039-91 } \\ & \text { F2047-00 } \end{aligned}$ | 8433/8430 Control; same as 5039-99 control (1100/80 only) <br> 16-Drive Expansion; provides the capability to attach up to 168433 and/or 8430 disk drives to a 5039-99/91 control; excludes use of F2076-00 expansion | 72,000 | 315 43 | 1,730 185 |
| $\begin{aligned} & \text { F2O41-00 } \\ & \text { F2042-02 } \end{aligned}$ | Shared Peripheral Interface; provides an additional 1/O interface for the 5039-99 control EBCDIC Translator; translates Fieldata code to and from a 64-character subset of EBCDIC; may be connected to up to four 1/O interfaces (5039-99 control only) | 6,600 $\mathbf{2 , 0 6 4}$ | 31 11 | 136 43 |
| F2042-01 | ASCII Translator; translates Fieldata code to and from a 64 -character subset of ASCII; may be connected to up to four 1/O interfaces (5039-99 control only) | 2,064 | 11 | 43 |
| 5039-95 | 8433/8430 Control; same characteristics as 5039-99 except without I/O channel interface; requires 5039-99 control; maximum one per control | 57,600 | 315 | 1,385 |
| F2076-00 | 8405 Capability; adds the capability for control of up to eight 8405 disk drives to the control; excludes use of F2047-00 16-drive expansion | 2,160 | 5 | 52 |
| 8430-99 | 8430 Disk Storage; provides a single 8430 disk drive; minimum two required | 24,960 | 137 | 600 |
| F2342-00 | Disk Drive Upgrade; converts an 8430-99 to an 8433-00 | 11,520 | 63 | 275 |
| 8433-00 | Disk Storage; provides a single 8433 disk drive; minimum two required | 36,480 | 199 | 875 |
| F2021-00 | 8433/8430 Dual Access; provides simultaneous read/read, read/write, write/read, write/write operation on any two 8433-00 or 8430-99 disk drives; required in each 8433-00 and 8430-99 disk drive in the subsystem; requires two 5039 controls | 2,160 | 5 | 52 |
| $\begin{aligned} & \text { F1230-00 } \\ & \text { F1223-00 } \end{aligned}$ | Disk Pack; provides up to 100 million bytes or 17 million 36 -bit words of removable storage Disk Pack; provides up to 200 million bytes of 34 million 36 -bit words of removable storage | $\begin{array}{r} 750 \\ 1,150 \end{array}$ | - | 46 58 |
| 8405-00 | 8405 Fixed-Head Disk; provides a single 8405 disk with a storage capacity of $6,193,152$ bytes or 1,376,256 36-bit words; requires F2076-00 capability | 76,800 | 467 | 1,845 |
| 8405-04 | 8405 Fixed-Head Disk; provides a single 8405 disk with a storage capacity of 3,096,576 bytes or 688,128 36-bit words; requires F2076-00 capability | 46,080 | 280 | 1,110 |
| F1664-00 | 8405 Dual Access; provides simultaneous read/read, read/write, write/read, and write/write operation on any two 8405 fixed-head disk drives; prerequisite for each 8405 fixed-head disk in subsystem; requires two 5039 controls | 2,160 | 5 | 52 |
| F2076-00 | 8405 Capability; provides capability to attach up to eight 8405-00/04 fixed-head disk drives to the control; excludes the use of F2047-00 16-drive expansion | 2,160 | 5 | 52 |
| 5046-99 | 8430/8433/8434 Control; controls up to sixteen 8430, 8433, and/or 8434 disk drives; maximum 866 megabytes of storage; requires minimum of two disk drives | 102,000 | 428 | 2,770 |
| 5046-97 | 8430/8433/8434 Dual Control; for dual-access subsystem operation; requires two channels | 176,448 | 749 | 5,015 |
| 8434-99 | 8434 Disk Storage; provides two single-spindle disk drives with non-removable pack | 66,600 | 242 | 2,140 |
| F2561-00 | 32-Device Capability; allows up to 328430,8433 , or 8434 disk drives to be intermixed on one 5046-99 control; two required for 5046-97 dual control | 7,680 | 43 | 185 |
| F2558-00 | 8405 Fixed-Head Disk Capability; allows up to eight 8405 fixed-head disk drives to be attached to 5046-99 control, two required for 5046-97 control (precludes use of F2561-00 32-device capability) | 2,160 | 5 | 52 |
| F2021-99 | 8434 Dual Access; provides simultaneous read/write, read/read, write/read, and write/write on any two 8434 disk drives; requires 5046-97 dual control or two 5046-99 controls | 2,688 | 14 | 56 |
| F2021-98 | 8434 Dual Access; two required for $8434-99$ disk storage on 1100/10 systems only | 1,344 |  | 28 |
| F2555-00 | Shared Peripheral Interface; provides an additional 1/O interface for the 5046-99/97 controls | 6,600 | 29 | 138 |
| 5046-95 | 8430/8433/8450 Control; controls up to 168450 disk drives and power for up to four Sets of four drives of any type (i.e., $8430 / 8433$ or 8450 ); requires minimum of two 8450 disk drives | 102,000 | 428 | 2,700 |
| 5046-93 | 8430/8433/8450 Dual Control; two control units, each with the same characteristics and restrictions as the 5046-95/94 control; requires two D2838-00 8450 capability expansions or two F2720-00 8430/8433 capability expansions | 176,448 | 749 | 5,015 |
| F2838-00 | 8450 Capability Expansion, allows 5046-95/94 control to handle up to 328450 disk drives, requires 2837-00 power control expansion (excludes use of F2720-00 8430/8433 capability) | 6,000 | 48 | 150 |
| F2720-00 | 8430/8433 Capability Expansion; allows 5046-95/94 control to handle up to 168430 and/or 8433 disk drives (excludes use of F2838-00 8450 capability) | 2,400 | 11 | 60 |
| F2837-00 | Power Control Expansion, required when total number of disk drives exceeds 16; two required for 5046-93/92 dual control | 7,680 | 43 | 185 |
| F2555-00 | Shared Peripheral Interface, multiprocessor; allows 5046-95/94 to connect to two separate 1100 Series processors; two required for 5046-93/92 control | 6,600 | 31 | 138 |
| 8450-99 | 8450 Disk Storage; provides two 8450 disk drives using non-interchangeable data module included as part of each drive | 66,600 | 242 | 2,140 |
| 8450-97 | 8450 Disk Storage; provides two 8450 disk drives using non-interchangeable data modules with fixed and movable heads | 74,600 | 268 | 2,390 |
| F2717-99 | 8450 Fixed-Head Conversion; converts 8450-99/98 disk storage unit to an 8450-97/96 disk storage unit | 13,600 | 26 | 250 |
| F2718-99 | 8450 Dual Access Feature; provides dual access and simultaneous read/write, read/read, write/ read, and write/write on any two 8450 disk drives; requires two 5046 controls | 2,688 | 15 | 56 |
| INPUT/OUTPUT UNITS |  |  |  |  |
| 5017-00 | Uniservo 12/16 Magnetic Tape Control; up to sixteen 9-track, 1600-bpi nonsimultaneous Uniservo 12 and/or Uniservo 16 Tape Units | 28,560 | 163 | 655 |
| $\begin{aligned} & \text { F1131-99 } \\ & \text { F1131-98 } \end{aligned}$ | Uniservo 16 Capability for 5017-99 control <br> Dual Access Capability and Uniservo 16 Capability for 0899-00 simultaneous operation feature; requires F1131-99 Uniservo 16 capability | $\begin{aligned} & 2,112 \\ & 2,064 \end{aligned}$ | 13 13 | 44 |

*Rental prices do not include equipment maintenance.

## EQUIPMENT PRICES

|  |  | Purchase Price | Monthly Maint. |  |
| :---: | :---: | :---: | :---: | :---: |
| INPUT/OUTPUT UNITS (Continued) |  |  |  |  |
| F0899-99 | Simultaneous Operation for 5017-00 control | 21,312 5,760 | 110 26 | 490 |
|  | 7-Track NRZI Capability for 5017-00 or 5017-99 control |  |  | 120 |
| F0826-00 | 9-Track NRZI Capability for 5017-00 or 5017-99 control | 5,760 | 26 | 120 |
| 5045-99 | Uniservo 14 Control; consists of a control and cabinet with space for two Uniservo 14 tape units. Controls up to eight 9 -track phase-encoded tape units. Additional Uniservo 14 tape units are housed in the 5045-02 auxiliary cabinet. Up to three auxiliary units may be attached to the 5045-99 allowing the total of eight tape units. Must be connected via one Multi-Subsystem Adapter module 0961-99 or F1321-99 | 21,168 | 128 | 441 |
| 5045-02 | Uniservo Auxiliary Cabinet; consists of a Uniservo control cabinet with power distribution and space to mount one or two Uniservo 14 Tape Units | 1,296 | 5 | 27 |
| F0823-97 | 7-Track NRZI | 5,544 | 24 | 113 |
| F0826-00 | 9-Track NRZI | 5,760 | 26 | 120 |
| F1028-96 | 9-Track Addition; adds 9-track NRZI to F0823-97 tape unit | 4,176 | 16 | 87 |
| F1028-95 | 7-Track Addition; adds 7-track NRZ1 plus data conversion to F0826-00 tape unit | 4,176 | 16 | 87 |
| 0870-03 | Uniservo 14; 9-track phase-encoded tape unit; 96 KB per second at 1600 bpi | 14,880 | 93 | 310 |
| 0870-04 | Uniservo 14; 9-track phase-encoded and NRZI tape unit; 96 KB per second at 1600 bpi and 48 KB at 800 bpi | 16,080 | 101 | 335 |
| 0870-05 | Uniservo 14; 7-track NRZI tape unit; 48/33 4/12 KB per second at 800/556/200 bpi | 14,880 | 93 | 310 |
| F2194-00 | U14 Dual Density; adds 9-track NRZ1 to a Uniservo 14 phase-encoded tape unit Type 0870-03 | 1,200 | 6 | 25 |
| F2194-02 | U14 7 to 9 Conversion; converts a Type 0870-O5 Uniservo 14 -track NRZI tape unit into a 9-track phase-encoded unit | - | - | - |
| F2194-03 | U14 7 to 9 Dual Density; converts a Type 0870-05 Uniservo 14 7-track NRZI tape unit into a 9-track phase-encoded and NRZI unit; requires FO826-00 or equivalent in the control | 1,200 | 6 | 25 |
| 0862-04 | Uniservo 16 Tape Unit; 9-track, 1600 bpi | 22,032 | 170 | 505 |
| 0862-06 | Uniservo 16 Tape Unit; 7-track, 200/556/800 bpi | 22,032 | 170 | 505 |
| F0937-01 | Dual Density Feature for 0862-04 tape unit | 2,448 |  | 51 |
| F1319-00 | Dual Access Feature | 2,448 | 14 | 51 |
| 5034-99 | Uniservo 20 Control Unit | 52,416 | 189 | 1,200 |
| F0823-98 | 7-Track Capability; permits addition of 7-track Uniservo 12 and/or 16 tape units | 5,554 | 24 | 113 |
| F0826-99 | 9 -Track NRZI; permits addition of 9-track Uniservo 12 and/or 16 tape units at 800 bpi | 6,552 | 32 | 133 |
| F1028-98 | 9-Track Addition; adds 9-Track NRZI capability to FO823-98 7-track capability | 5,544 | 24 | 113 |
| F1324-02 | Shared Peripheral Interface; provides an additional 1/O interface for the 5034-99 Control | 6,600 | 34 | 136 |
| F1325-00 | ASCII Translator for 5034-99 control unit | 2,064 | 12 | 43 |
| F1325-01 | EBCDIC Translator for 5034-99 control unit | 2,064 | 12 | 43 |
| 0864-00 | Uniservo 20 Tape Unit; 9-track; 1600 bpi | 27,696 | 199 | 635 |
| F1510-00 | Dual Access Feature for 0864-00 tape unit; permits simultaneous 2-channel access when used with two 5034-99 Controls | 2,448 | 14 | 51 |
| 5034-02 | Uniservo 20 Control Unit | 45,888 | 166 | 1,050 |
| F2627-00 | 9 -track Translation | 2,064 | 12 | 47 |
| 5042-00 | Uniservo 30 Control | 55,392 | 308 | 1.170 |
| F2131-00 | Uniservo 309 -track NRZI feature | 3,648 | 20 | 76 |
| F2585-00 | Uniservo 309 -track translation feature | 2,064 | 12 | 43 |
| F2584-99 | Uniservo 307 -track NRZI code translation feature | 1,824 | 11 | 38 |
| 0872-00 | Uniservo 309 -Track Tape Unit | 34,800 | 194 | 780 |
| 0872-02 | Uniservo 307 -Track Tape Unit | 34,800 | 194 | 780 |
| F2123-00 | Uniservo 307 - to 9-Track Conversion | 3,774 | - | 79 |
| $0873-00$ | Uniservo 32 GCR/PE Tape Unit | 31,584 | 175 | 725 |
| 0873-02 | Uniservo 34 GCR/PE Tape Unit | 36,192 | 201 | 830 |
| 0874-00 | Uniservo 36 GCR/PE Tape Unit | 38,880 | 216 | 890 |
| 0770-00 | Printer, 800 lines per minute | 56,304 | 287 | 1,173 |
| 0770-02 | Printer, 1400 lines per minute | 64,896 | 376 | 1,352 |
| 0770-04 | Printer, 2000 lines per minute | 86,686 | 478 | 2,220 |
| 0776-00 | Printer, 760 lines per minute | 41,400 | 219 | 865 |
| 0776-02 | Printer and Control; 900 lines per minute | 46,680 | 262 | 975 |
| F1533-00 | 160 Print Positions for 0770 series printers | $4,416$ | 20 | 92 |
| F1534-00 | Expanded Character Set Control; required for other than 1536-00 or -01 Print Cartridges | $2,880$ | 5 | 60 |
|  | Print Cartridges for 0770 series printers: |  |  |  |
| F1536-00 | 48-character alphanumeric Business | 462 | - | 22 |
| F1536-01 | 48-character alphanumeric Scientific | 462 | - | 22 |
| F1537-00 | 94 -character ASCII | 462 | - | 22 |
| F1537-03 | 64 -character universal ISO OCR-B | 462 | - | 22 |
| F1537-04 | 64 -character universal OCR H-14 | 462 | - | 22 |
| F1537-05 | 58-character COBOL-FORTRAN-Business | 462 | - | 22 |
| F1537-06 | 177-character International | 462 | - | 22 |
| F1537-09 | 24-character Numeric | 462 | - | 22 |
| F1537-11 | 68-character universal OCR-A | 462 | - | 22 |
| F1537-12 | 68-character universal OCR-B | 462 | - | 22 |
| F1537-13 | 68 -character universal 77L | 462 | - | 22 |
| F0597.97 | 1004 Control for on-line connection of a UNIVAC 1004 Card Processor | 12,480 | 46 | 260 |
| F1095-10 | 1106/9000 Inter-Computer Control Unit for on-line connection of a UNIVAC 9200/9300 system | 11,184 | 63 | 233 |

## UNIVAC 1100 Series

## EQUIPMENT PRICES



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## EQUIPMENT PRICES

|  | EQUIPMENT PRICES | Purchase Price | Monthly Maint. | Rental (1-year lease)* |
| :---: | :---: | :---: | :---: | :---: |
| DATA COMMUNICATIONS (Continued) |  |  |  |  |
| F1976-00 | High-Level Communications Terminal; provides capability to handle bit-oriented Data Link Control, up to 56,000 bps | 4,800 | 19 | 100 |
| F1977-99 | Communication Terminal Dialer | 672 | 3 | 14 |
| F1978-00 | Communication Interface-Telegraph | 240 | 1 | 5 |
| F1979-00 | Communication Interface-Modem | 432 | 2 | 9 |
| F1979-01 | Identical to Cl -modem (1979-00) except permits use of a modem not having a receive clock | 672 | 3 | 14 |
| F1980-00 | Communication Interface-High-Speed (allows connection of a CTS-Std. or CTS-VII to the CCITT V. 35 interface) | 864 | 4 | 18 |
| F1980-01 | Communication Interface (allows connection of a CTS—Std. or CTS-VII to the ATT 303 modem or equivalent) | 864 | 4 | 18 |
| F1983-00 | Spare Basic Clock | 240 | 1 | 5 |
| F1984-00 | Expansion Clock (provides asynchronous timing rates not included in the basic clock) | 240 | 1 | 5 |
| F2072-00 | Allows connections to a CTS-Std. to a MIL 188C synchronous interface | 672 | 3 | 14 |
| F2074-00 | Communications Interface-automatic inbound bit rate detection | 1,440 | 3 | 30 |
| DISTRIBUTED COMMUNICATIONS PROCESSOR |  |  |  |  |
| 8579-83 | Distributed Communications Frocessor (DCP); free-standing unit including processor, real-time clock, power-protect, storage parity, breakpoint, unary shift, power supplies, control, and 32 K bytes of storage; requires either an F2223-00 single port or an F2223-01 multi-port feature, an 8406 flexible diskette or an 8408 cartridge disk subsystem, and an F1811-99 Type I Scanner on a 1928-03 Type II Scanner | 40,668 | 200 | 1,017 |
| F2224-00 | 1/C Storage Expansion for DCP; provides 16 K bytes of additional storage to expand capacity from 32 K to 48 K bytes, 64 K to 80 K bytes, and 96 K to 112 K bytes | 3,600 | 25 | 90 |
| F2224-01 | I/C Storage Expansion for DCP; provides 16 K bytes of additional storage to expand capacity from 48 K to $64 \mathrm{~K}, 80 \mathrm{~K}$ to 96 K , and 112 K to 128 K bytes | 1,800 | 25 | 45 |
| F2268-00 | I/O Controller; provides a programmable interface between DCP and parallel I/O channel and Type I scanner | 3,200 | 15 | 80 |
| F1795-01 | Parallel I/O Channel; supports four channels; requires F2268-00 I/O controller | 2,400 | 11 | 60 |
| F2691-00 | Remote I/O Controller; provides a programmable controller with 16 paraliel I/O channels; requires F2223-01 multi-port storage | 18,000 | 80 | 450 |
| F1791-99 | Host Channel Interface, Single; provides connection of a DCP to an 1100/80 byte multiplexer channel | 3,136 | 14 | 78 |
| F1800-99 | Host Channel Interface, Dual; provides connection to switch between two byte/multiplexer channels of a single 1100/80 or two separate 1100/80's | 4,832 | 21 | 120 |
| F2223-00 | Single-Port Storage; provides a single-access port to I/C storage; required when only a Type I scanner is used | 3,460 | 14 | 86 |
| F2223-01 | Multi-Port Storage; provides four access ports to I/C storage; required whenever an F2262-01 Type I scanner, a 1928-03 Type II scanner, or an F2691-00 remote I/O controller is used | 4,040 | 27 | 101 |
| 8406-99 | Diskette Drive; 256K bytes | 5,000 | 21 | 125 |
| F2338-00 | Drive Expansion; provides for an additional disk drive for DCP; 256 K bytes | 1,440 | 10 | 40 |
| 8408-02 | Cartridge Disk Control; provides cabinet, control, and housing for up to two F2380-04/05 disk drives; requires either an F1795-01 parallel I/O channel or an F2691-00 remote 1/O controller | 5,564 | 25 | 139 |
| F2380-04 | Disk Drive, 10 million bytes; requires 8408-02 control | 17,750 | 96 | 418 |
| F2187-00 | Cartridge Disk, Dual; provides a second I/O interface for dual DCP configurations; requires 8408-02 control | 1,568 | 7 | 39 |
| 5045-95 | Uniservo 10 Control; includes cabinet, control, and housing for up to two dual-density U-10's; requires either an F2691-O0 remote I/O controller or an F1795-01 parallel I/O channel | 15,280 | 64 | 382 |
| 0870-27 | Uniservo 109 -track, dual-density tape unit; requires 5045-95 cabinet | 12,576 | 67 | 262 |
| 8590-99 | Remote Control Module | 6,148 | 38 | 154 |
| 3536-86 | DCP Console | 7,000 | 44 | 175 |
| 8541-76 | DCP Output Printer; 30 cps | 2,596 | 27 | 67 |
| 0774-97 | Terminal Printer; 300 cps | 2,320 | 21 | 61 |
| 1928-03 | Type II Scanner; provides the capability to control data between the 8596-98 and up to 128 half duplex or 64 full duplex communications lines | 23,000 | 61 | 575 |
| F2263-00 | Line Adapter Chassis; expands the number of line adapter positions by 32; 32 to 64 or 96 to 128; up to two per 1928-03 allowed; requires F1801-01 | 2,360 | 10 | 59 |
| F2263-02 | Expansion; for line adapter positions 96 to 128 | 1,120 | 4 | 28 |
| F1801-01 | Line Base II; provides the interface and control for up to 16 ports in 1928-03; maximum of eight per scanner | 600 | 3 | 15 |
| F1801-02 | With speed scan option for data rates up to 230.4 bps; operates on ports 0 and 4 as a full duplex pair; one per 1928-03 | 600 | 3 | 15 |
| F2381-00 | Allows operation of up to 128 1928-03 line adapter positions with bit oriented line control procedures such as UDLC, SDLC, etc. | 1,720 | 7 | 43 |
| F1869-01 | Auto Line Speed Detection; provides 1928-03 with the capability to automatically determine operation characters such as character length; one per 1928-03 | 452 | 3 | 11 |
| F1825-02 | Line indicator Type II; provides a visual display of line activity on up to 16 half duplex or 8 full duplex communications lines on 1928-03; maximum of eight per 1928-03 | 440 | 2 | 11 |
| F1826-00 | Synchronous Line Adapter for 1928-03; provides full duplex interface to data sets conforming to RS-232C and CCITT V. 24 and V. 28 | 760 | 7 | 19 |
| F1826-01 | With supervisory channel up to 150 bps asynchronous; requires two line adapter positions | 1,160 | 9 | 29 |
| F1827-00 | With modem interface conforming to MIL-STD-188C and MIL STD-188C and MIL STD-188-100 low level | 760 | 7 | 19 |
| F1828-00 | Asynchronous Line Adapter for 1928-03; provides full duplex interface to data sets conforming to RS-232C and CCITT V. 24 and V. 28 | 600 | 6 | 15 |
| F1828-01 | With reverse channel up to five bps for Bell 202 type modems | 760 | 7 | 19 |
| F1828-02 | With a supervisory channel up to 150 bps asynchronous; requires two line adapter positions With interface conforming to MIL-STD 188C and MIL-STD-188-100 low level | 920 600 | 9 | 23 15 |
| F1830-00 | Wideband Line Adapter for 1928-03; provides capability to connect one synchronous full | 920 | 9 | 23 |

[^3]
## UNIVAC 1100 Series

## EQUIPMENT PRICES

|  |  | Purchase Price | Monthly Maint. | Rental (1-year lease)* |
| :---: | :---: | :---: | :---: | :---: |
| DISTRIBUTED COMMUNICATIONS PROCESSOR (Continued) |  |  |  |  |
| F1831-00 | Dial Adapter for 1928-03; provides interface for attachment to one Bell 801 Automatic Calling Unit; requires F1928, F1926 or F1835 | 600 | 6 | 15 |
| F1832-00 | Asynchronous Relay Line Adapter for 1928-03; full duplex interface optionally compatible with either 20 to 75 ma neutral or 10 to 40 ma polar telegraph lines | 600 | 6 | 15 |
| F1834-00 | Wideband Line Adapter; similar to F1830-00 | 920 | 9 | 23 |
| F1835-00 | TWX Line Adapter for 1928-03; interfaces the US TWX Network | 600 | 6 | 15 |
| F1836-00 | Telex Line Adapter for 1928-03; interfaces the Western Union Telex in the US |  |  |  |
| F2519-00 | Full Duplex Interface to Asynchronous Data Sets for 1928-03; conforms to RS-232C and CCITT V. 24 and V.28; contains clocking logic that can be strapped for 300, 600, 1200, 1800 bps and 7 or 8 level code on ports 0 to 63 or 300,600 , or 1200 bps on ports $64-127$ | 760 | 7 | 19 |
| F2521-00 | Interface for 1928-03; provides input of parallel data from touch tone telephone sets via Bell 407A B Data Station | 1,000 | 10 | 25 |
| TERMINALS** |  |  |  |  |
| 3536-89 | Uniscope 100 Display Terminal; 960 or 1024 characters; 64 character set | 3.175 | 51 | 77 |
| F1241-04 | Expands Uniscope 100 character set to 96 characters | 680 | 16 | 11 |
| 3542-99 | Uniscope 200 Display Terminal; 1536 or 1920 characters; 64 character set | 4,252 | 51 | 106 |
| F2044-01 | Expands Uniscope 200 character set to 96 characters | 701 | - | 16 |
| 3542-98 | Uniscope 200 with international 64 character set | 4,252 | 51 | 106 |
| F2044-03 | Expands Uniscope 200 international character set to 96 characters for Uniscope 100 and 200 | 701 | - | 16 |
| F1844-00 | Uniscope 100 Numeric Keyboard | 270 | 2 | 7 |
| F1844-01 | Uniscope 100 Upper Case Alpha Keyboard | 300 | 2 | 12 |
| F1844-02 | Uniscope 100 Upper/Lower Case Alpha Keyboard | 300 | 2 | 12 |
| F1844-03 | Uniscope 100 Upper Case Alpha Typewriter and numeric Keyboard | 490 | 2 | 19 |
| F1844-04 | Uniscope 100 Upper/Lower Case Alpha Typewriter and Numeric Keyboard | 490 | 2 | 19 |
| F1844-05 | Same as F1844-01 but with protected format keys | 300 | 2 | 12 |
| F1844-06 | Same as F1844-02 but with protected format keys | 300 | 2 | 12 |
| F1844-07 | Same as F1844-03 but with protected format keys | 490 | 2 | 19 |
| F1844-08 | Same as F1844-04 but with protected format keys | 490 | 2 | 19 |
| F1466-00 | Special Function keyset for automatic disconnect | 108 | 1 | 3 |
| F1245-00 | Direct Interface; 2400, 4800, or 9600 bps | 470 | 5 | 11 |
| F1245-01 | Synchronous Interface to a modem or terminal multiplexer | 470 | 5 | 11 |
| F1245-02 | Asynchronous Interface to a modem or terminal multiplexer; 300, 600, 1200, 1600, 1800, or 2400 bps | 470 | 5 | 11 |
| F1245-13 | Synchronous Interface to an IBM 2701 and SDAll or 2703 and synchronous base z via modem or terminal multipiexer | 470 | 5 | 11 |
| F1245-14 | Asynchronous Interface to an IBM 2701 and Terminal Adapter III; 300, 600, 1200, 1600, 1800 , or 2400 bps | 470 | 5 | 11 |
| F1247 | Auxiliary Peripheral Interface | 310 | - | 10 |
| 8538-99 | Terminal Multiplexer; for up to eight terminals | 1,781 | 6 | 50 |
| F1264-00 | Multiplexer Expansion; expands number of terminals to 16 | 356 | - | 12 |
| 8538-97 | Same as 8538-99 but for modems F 1970-00 and F 1970-01 | 1,680 | 6 | 48 |
| F1266-00 | Synchronous/Asynchronous Interface to a modem terminal multiplexer | 356 | - | 12 |
| F1266-02 | Direct Interface with clock for connection to a CTMC or DCS without modem; 2400, 4800, 9600 bps | 320 | - | 11 |
| 0786-00 | Unidirectional Matrix printer; 200 cps | 4,540 | 32 | 120 |
| 0786-02 | Bidirectional Matrix Printer; 200 cps | 6,250 | 64 | 160 |
| F2656-01 | Printer Interface to Uniscope | 400 | - | 10 |
| F2696-00 | Converts 0786-00 to 0786-02 | 1,710 | 21 | 40 |
| F2648-00 | Document Parking Bar; for removal of single forms | 114 | 1 | 3 |
| F2646-00 | Option for 6 or 8 lines per inch | 151 | 1 | 4 |
| F2647-00 | Vertical Form Unit; 6 lines per inch | 228 | 1 | 6 |
| F2647-02 | Vertical Form Unit; 8 lines per inch | 228 | 1 | 6 |
| 8541-06 | Printwheel Printer; 30 cps | 2,596 | 33 | 74 |
| F1780-00 | Variable Forms Length Feature | 195 | 1 | 6 |
| 0774-96 | 300 cps terminal printer | 2,320 | 24 | 61 |
| 0866-97 | Dual Drive Magnetic Tape Cassette; 700K bytes each | 1,947 | 32 | 62 |
| F2142-00 | Tape Cassette Option; read after writing, writing enhanced protect format, off-line cassette to cassette copying and off-line cassette to printer transfer | 577 | - | 15 |
| F2142-01 | Adds search by identifier, writing of ASCII record separators and copy to address | 906 | - | 26 |

*Rental prices do not include maintenance.
**For pricing on the UTS 400 see Report 70D-877-06.

## UNIVAC 1100 Series

## SOFTWARE PRICES


*This charge applies to rented, leased, or purchased equipment in existing installations


[^0]:    *Rental prices do not include equipment maintenance.

[^1]:    *Rental prices do not include equipment maintenance.

[^2]:    *Rental prices do not include equipment maintenance.

[^3]:    *Rental prices do not include equipment maintenance

