

DEC VAX-11 Systems

► VAX/VMS supports an *RSX-11M program development package* that enables users to write, assemble or compile, and link RSX-11M task images. The task images can be written to execute on a PDP-11 under RSX-11M or RSX-11S; or, if properly coded, they can be written to execute in the VAX compatibility-mode environment.

The RSX-11M development package includes both the PDP-11 MACRO assembler and the PDP-11 FORTRAN IV compiler, plus RSX-11M program development utilities. Programmers can use the VAX/VMS command language to edit, copy, or back up their files. They can also use the RSX-11M MCR command interface on the VAX-11/780 system. MCR enables the programmer to run the standard RSX-11M utilities such as the EDI and SLP editors, the PIP and FLX file transfer utilities, and the Task Builder, Librarian, and patch utilities.

GRAPHICS UTILITIES: *The VAX-11 Pen Plotter Utilities* is a library of FORTRAN subroutines used to produce graphical output on most of the CALCOMP range of Pen Plotters. Included are all the standard CALCOMP calls (LINE, SYMBOL, WHERE, ETC.) and a handler for the CALCOMP 906 controller which connects to the VAX system via an EIA asynchronous line (DZ11).

The VAX-11 Digitizer Utilities is a library of FORTRAN subroutines for acquiring data from the TALOS range of digitizer tablets. The TALOS digitizers provide a means of accurately capturing graphic information through the position of either a hand-held pen or a tracking "mouse." VAX-11 Digitizer Utilities includes such single calls as fetch AREA, LENGTH, etc., in any scale of units specified by the user, and allow flexible creation of MENU areas on the digitizer surface.

VAX-11 Engineering Drawing Utilities is a library of FORTRAN callable subroutines used to provide high level control plotting devices. Single calls are included to produce complex output with the minimum of applications programming effort, including routines to create circles, arcs, graph axes with labeling, dimension lines, arrowheads, etc., as well as a library of over 60 standard mathematical, logic and electronic symbols. Users may define their own symbols within 100 x 100 matrix and reference them with a unique calling number.

PRICING

POLICY: DEC provides VAX systems on a purchase basis, with separately priced maintenance agreements. Leasing arrangements are available through DEC's joint venture with U.S. Leasing Corporation at a monthly charge of 2.4% of the purchase price. DEC software is licensed rather than sold. Users purchase licenses and distribution rights separately.

EQUIPMENT: Four standard VAX-11/780 systems and three VAX-11/750 system configurations follow. All VAX systems have provisions for additional memory and peripherals.

RM03/TU77-BASED VAX-11/780 SYSTEMS: Includes a VAX-11/780 CPU with an RM03 disk and the TU77

magnetic tape storage devices. The RM03/TU77-based system is configured with 1MB of ECC MOS memory. Both systems include an REM03 single-access 67MB disk drive with MASSBUS adapter, the TEU77 magnetic tape transport unit with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, and an LA120 console terminal. Also included is an integral diagnostic console subsystem. The RM03/TU77-based system is \$239,200.

RP06/TU77-BASED SYSTEM: Includes a VAX-11/780 CPU with 2MB of ECC MOS memory, an REP06 single-access 176MB disk drive with MASSBUS adapter, a TEU77 magnetic tape transport unit with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, and an LA120 console terminal. Also included is an integral diagnostic console subsystem. The purchase price is \$274,900.

RM05/TU77-BASED VAX-11/780 SYSTEM: Includes VAX-11/780 CPU with 2MB of ECC MOS memory, an REM05 single-access 256MB disk drive with MASSBUS adapter, a TEU77 magnetic tape transport unit with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, and an LA120 console terminal. Also included is an integral diagnostic console subsystem. Purchase price is \$274,900.

RM80/TU77-BASED VAX-11/780 SYSTEM: Includes VAX-11/780 CPU, 2MB of ECC MOS memory, an REM80 single-access 124MB fixed media disk drive with MASSBUS adapter, a TEU77 magnetic tape transport unit with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, and an LA120 console terminal. Also included is an integral diagnostic console subsystem. The purchase price is \$243,900.

DUAL RK07 DISK-BASED VAX-11/750 SYSTEM: Includes VAX-11/750 CPU with 512KB of ECC MOS memory, an RK711 UNIBUS controller with two top-loading RK07 cartridge disk drives for a total of 56MB of on-line storage, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, and an LA38 console terminal with stand. Also included is the console subsystem. Purchase price is \$92,600.

RM03/TS11-BASED VAX-11/750 SYSTEM: Includes VAX-11/750 CPU, 1MB of ECC MOS memory, an RGM03 single-access 67MB disk drive with MASSBUS adapter, a TS11 magnetic tape subsystem with UNIBUS controller, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, and an LA38 console terminal with stand. Also included is the console subsystem. Purchase price is \$128,800.

RM80/TS11-BASED VAX-11/750 SYSTEM: Includes VAX-11/750 CPU, 1MB of ECC MOS memory, an RGM80 single-access 124MB fixed media disk drive with MASSBUS adapter and a TS11 magnetic tape subsystem with UNIBUS controller, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, and an LA38 console terminal with stand. Also included is the console subsystem. Purchase price is \$123,600. ►

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EQUIPMENT PRICES

		<u>Purchase Price</u>	<u>Monthly Maint.</u>
STANDARD SYSTEMS			
SV-AXTVC-CA (CD)	VAX-11/780 System includes CPU with a TEE16 magnetic tape transport, 1MB ECC MOS memory, an REM03 single-access 67MB disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem.	\$219,100	\$1,798
SV-AXTBB-CA (CD)	VAX-11/780 System includes CPU with a TEU77 magnetic tape transport, 1MB ECC MOS memory, an REM03 single-access 67MB disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem	239,200	1,047
SV-AXDBC-CA (CD)	VAX-11/780 System includes CPU with a TEU77 magnetic tape transport, 2MB ECC MOS memory, an REM05 single-access 256MB disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem	274,900	1,956
SV-AXDCA-CA (CD)	VAX-11/780 System includes CPU with a TEU78 magnetic tape transport, 2MB ECC MOS memory, an REM05 single-access 256MB disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem	296,700	1,442
SV-AXWBB-CA (CD)	VAX-11/780 System includes CPU with a TEU77 magnetic tape transport, 2MB ECC MOS memory, an REM80 single-access 124MB disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem	243,900	1,543
SV-AXCBC-CA (CD)	VAX-11/780 System includes CPU with a TEU77 magnetic tape transport, 2MB ECC MOS memory, an REPO6 single-access 176MB disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem	274,900	1,798
SV-AXVCA-CA (CD)	VAX-11/780 System includes CPU with a TEU78 magnetic tape transport, 2MB ECC MOS memory, an REPO7 single-access 516MB fixed Winchester disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem	300,000	1,372
SV-AXVCB-CA (CD)	VAX-11/780 System includes CPU with a TEU78 magnetic tape transport, 3MB of interleaved ECC MOS memory, an REPO7 single-access 516MB fixed Winchester disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight EIA communications lines, an LA120 console terminal, and a diagnostic console subsystem	341,600	1,482
SV-BXHH-AA (AD)	VAX-11/750 System includes CPU with dual RK07 disk storage devices for 56MB of on-line storage, 512KB ECC MOS memory, an RK711 UNIBUS controller, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, an LA38 console terminal with stand, and a console subsystem.	92,600	571
SV-BXTAA-AA (AD)	VAX-11/750 System includes CPU with 1MB ECC MOS memory, an RGM03 single-access 67MB disk drive with MASSBUS adapter and a TS11 magnetic tape subsystem with UNIBUS controller, one DZ11-A asynchronous multiplexer for connection to eight EIA communication lines, an LA38 console terminal with stand, and a console subsystem.	128,800	642
SV-BXWAA-AA (AD)	VAX-11/750 System includes CPU with 1MB ECC MOS memory, an RGM80 single-access 124MB fixed media disk drive with MASSBUS adapter and a TS11 magnetic tape subsystem with UNIBUS controller, one DZ11-A asynchronous multiplexer for connection to eight communication lines, an LA38 console terminal with stand, and a console subsystem.	123,600	597
SV-BXWBA-CA (CD)	VAX-11/750 System includes CPU with a TGU77 magnetic tape transport with MASSBUS adapter, an RGM80 single-access 124MB fixed media disk drive with MASSBUS adapter, one DZ11-A asynchronous multiplexer for connection to eight communications lines, an LA120 console terminal, and a diagnostic console subsystem	140,000	785
VAX-11/780 PROCESSOR OPTIONS			
FP780-AA (AB)	High Performance floating-accelerator for single- and double-precision floating-point instructions plus POLY, EMOD, and MULL	11,200	48
DW780-AA (AB)	UNIBUS adapter	12,900	37
KU780-YY	12K-byte User Writable Control Store	12,500	53
VAX-11/750 PROCESSOR OPTIONS			
KU750-YG	10K-byte (1K-word—80-bit words) User Writable Control Store	6,000	45

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EQUIPMENT PRICES

		<u>Purchase Price</u>	<u>Monthly Maint.</u>
▶ VAX-11/780 EXPANSION MEMORY			
MS780-CC (CD)	512K-byte ECC MOS 16K chip memory with controller	\$26,600	\$158
MS780-DA	256K-byte ECC MOS expansion memory	7,700	58
MS780-DB	512K-byte ECC MOS expansion memory	10,200	98
MS780-DC	1M-byte ECC MOS expansion memory	13,800	170
MS780-DD	2M-byte ECC MOS expansion memory	21,600	280
VAX-11/750 EXPANSION MEMORY			
MS750-AA	256K-byte ECC MOS expansion memory	7,700	58
MS750-AB	512K-byte ECC MOS expansion memory	10,200	98
MS750-AC	1M-byte ECC MOS expansion memory	13,800	170
VAX-11/780 AND VAX-11/750 MEMORY OPTION			
H7112-A (B)	MOS memory battery backup	1,800	11
VAX-11/780 SYSTEM UPGRADE OPTION			
H9604-BA (BB)	System upgrade option for dual RK07-based VAX-11/780 packaged system	25,750	NC
VAX-11/780 MULTIPOINT MEMORY OPTIONS			
MA780-AA (AB)	256K-byte ECC MOS multipoint memory subsystem	39,500	179
MA780-BA (BB)	Additional 256K byte MA780 multipoint memory subsystem	34,600	179
MA780-C	MA780 multipoint memory port interface	7,700	21
MA780-D	VAX-11/780 multipoint memory selective cache invalidate option	9,900	58
MASSBUS PERIPHERALS			
VAX-11/780 DISK DRIVE SYSTEMS			
REM03-AA (AD)	Single-access, free-standing 67MB removable disk pack drive and VAX-11/780 MASSBUS adapter	32,300	179
REM03-BA (BD)	Dual-access, free-standing 67MB removable disk pack and two VAX-11/780 MASSBUS adapters	43,900	226
REM05-AA (AB)	Single-access, 256MB removable disk pack drive and VAX-11/780 MASSBUS adapters	46,000	310
REM05-BA (BB)	Dual-access, 256MB removable disk pack drive and two VAX-11/780 MASSBUS adapters	60,600	395
REM80-AA (AD)	Single-access, free-standing 124MB fixed media disk drive and VAX-11/780 MASSBUS adapter	31,900	125
REM80-BA (BD)	Dual-access, free-standing 124MB fixed media disk drive and two VAX-11/780 MASSBUS adapters	43,500	170
REPO6-AA (AB)	Single-access, free-standing 176MB removable disk pack drive and VAX-11/780 MASSBUS adapter	46,000	231
REPO6-BA (BB)	Dual-access, free-standing 176MB removable disk pack drive and two VAX-11/780 MASSBUS adapter	60,600	284
REPO7-AA (AB)	Single-access, free-standing 516MB fixed Winchester disk drive and VAX-11/780 MASSBUS adapter	50,000	240
REPO7-BA (BB)	Dual-access, free-standing 516MB fixed Winchester disk drive and VAX-11/780 MASSBUS adapter	64,600	320
VAX-11/750 DISK DRIVE SYSTEMS			
RGM03-AA (AD)	Single-access, free-standing 67MB removable disk pack drive and VAX-11/750 MASSBUS adapter	32,300	179
RGM03-BA (BD)	Dual-access, free-standing 67MB removable disk pack drive and two VAX-11/750 MASSBUS adapters	43,900	226
RMG80-AA (AD)	Single-access, free-standing 124MB fixed media disk drive and VAX-11/750 MASSBUS adapter	31,900	125
RMG80-BA (BD)	Dual-access, free-standing 124MB fixed media disk drive and two VAX-11/750 MASSBUS adapters	43,500	170
RGPO6-AA (AB)	Single-access, free-standing 176MB removable disk pack drive and VAX-11/750 MASSBUS adapter	46,000	231
RGPO6-BA (BB)	Dual-access, free-standing 176MB removable disk pack drive and two VAX-11/750 MASSBUS adapters	60,600	284
ADD-ON DISK DRIVES			
RM03-AA (AD)	Single-access, free-standing 67MB removable disk pack drive	20,300	147
RM03-BA (BD)	Dual-access, free-standing 67MB removable disk pack drive	22,500	163
RM05-AA (AB)	Single-access 256MB removable disk pack drive packaged in one free-standing disk drive cabinet plus one utility cabinet which houses the RM05 drive adapter and contains space for additional RM05 drive adapter	34,000	240
RM05-AC (AD)	Single-access 256MB removable disk pack drive packaged in free-standing disk drive cabinet only; one RM05-P disk pack is included	34,000	240
RM05-BA (BB)	Dual-access 256MB removable disk pack drive packaged in one free-standing disk drive cabinet plus one utility cabinet which houses the RM05 drive adapter and contains space for one additional RM05 drive adapter	39,140	255
RM05-BC (BD)	Dual-access 256MB removable disk pack drive packaged in free-standing disk drive cabinet only; one RM05-P disk pack is included	39,140	255
RM80-AA (AD)	Single-access, free-standing 124MB fixed media disk drive	19,900	95
RM80-BA (BD)	Dual-access, free-standing 124MB fixed media disk drive	22,000	110 ▶

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EQUIPMENT PRICES

		<u>Purchase Price</u>	<u>Monthly Maint.</u>
► ADD-ON DISK DRIVES (Continued)			
RP06-AA (AB)	Single-access, free-standing 176MB removable disk pack drive	\$34,000	\$200
RP06-BA (BB)	Dual-access, free-standing 176MB removable disk pack drive	39,140	221
RP07-AA (AB)	Single-access, free-standing 516MB fixed Winchester disk drive	38,000	180
RP07-BA (BB)	Dual-access, free-standing 516MB fixed Winchester disk drive	43,140	200
DUAL ACCESS AND UPGRADE OPTIONS			
REM03-DA (DB)	RM03 dual-access conversion kit contains RM03-C, VAX-11/780 MASSBUS adapter with power supply to convert REM03-A to REM03-B	13,700	48
REM05-CA (CB)	RM05 dual-access conversion kit contains RM05-C, VAX-11/780 MASSBUS adapter with power supply to convert REM05-A to REM05-B	16,700	85
REM80-DA (DB)	RM80 dual-access conversion kit contains RM80-C, VAX-11/780 MASSBUS adapter with power supply to convert REM80-A to REM80-B	13,700	45
REPO6-DA (DB)	RP06 dual-access conversion kit contains RPO6-C, VAX-11/780 MASSBUS adapter with power supply to convert REPO6-A to REPO6-B	16,700	53
REPO7-CA (CB)	RP07 dual-access conversion kit contains RPO7-C, VAX-11/780 MASSBUS adapter with power supply to convert REPO7-A to REPO7-B	16,700	80
RGM03-C	RM03 dual-access conversion kit contains RM03-C and VAX-11/750 MASSBUS adapter to convert RGM03-A to RGM03-B	13,700	48
RGM80-C	RM80 dual-access conversion kit contains RM80-C and VAX-11/750 MASSBUS adapter to convert RGM80-A to RGM80-B	13,700	45
RGPO6-C	RP06 dual-access conversion kit contains RPO6-C and VAX-11/750 MASSBUS adapter to convert RGPO6-A to RGPO6-B	16,700	53
RM03-C	RM03 dual-access kit containing drive logic and cables to convert RM03-A to RM03-B	2,150	16
RM05-C	RM05 dual-access kit containing drive logic and cables to convert RM05-A to RM05-B	5,150	15
RM80-C	RM80 dual-access kit containing drive logic and cables to convert RM80-A to RM80-B	2,150	15
RP06-C	RP06 dual-access kit containing drive logic and cables to convert RP06-A to RP06-B	5,150	21
RP06-U	RP05 to RP06 upgrade kit includes drive upgrade parts and RP06-P disk pack	10,500	—
RP07-C	RP07 dual-access kit containing drive logic and cables to convert RP07-A to RP07-B	5,150	20
RM03-P	67MB removable disk pack for RM03	635	—
RM05-P	256KB removable disk pack for RM05	1,500	—
RP06-P	176MB removable disk pack for RP06	950	—
MAGNETIC TAPE EQUIPMENT			
TEE16-AE (AJ)	Program-selectable 800 or 1600 bpi, 9-track, 45 ips magnetic tape transport and VAX-11/780 MASSBUS adapter; prerequisite, VAX-11/780	27,000	155
TEU45-KA (KB)	Program-selectable 800 or 1600 bpi, 9-track, 75 ips magnetic tape transport and VAX-11/780 MASSBUS adapter; prerequisite, VAX-11/780	29,000	279
TEU77-AB (AD)	Program-selectable 800 or 1600 bpi, 9-track, 125 ips magnetic tape transport and VAX-11/780 MASSBUS adapter; prerequisite, VAX-11/780	36,800	247
TEU78-AB (AD)	Single-access, program-selectable, 6250/1600 bpi, 9-track, 125 ips, automatic loading magnetic tape transport, formatter, and VAX-11/780 MASSBUS adapter	54,000	340
TEU78-BB (BD)	Dual-access program-selectable, 6250/1600 bpi, 9-track, 125 ips, automatic loading magnetic tape transport, formatter, and two VAX-11/780 MASSBUS adapters	68,600	420
TGU77-AB (AD)	Program selectable 800 or 1600 bpi, 9-track, 125 ips magnetic tape transport and VAX-11/750 MASSBUS adapter; prerequisite, VAX-11/750	36,800	247
TE16-AE (AJ)	Program-selectable 800 or 1600 bpi, 9-track, 45 ips magnetic tape transport unit in dedicated cabinet	15,900	92
TU45-KE (KF)	Program-selectable 800 or 1600 bpi, 9-track, 75 ips magnetic tape transport unit in dedicated cabinet	18,000	216
TU77-AF (AJ)	Program-selectable 800 or 1600 bpi, 9-track, 125 ips, automatic loading magnetic tape transport unit in dedicated cabinet	23,800	184
DW780-AA (AB)	VAX-11/780 UNIBUS adapter	12,900	37
UNIBUS PERIPHERALS			
FLOPPY DISK SUBSYSTEM			
RX211-BA (BD)	1.0MB RX02 floppy disk subsystem includes controller and two 0.5MB RX02 drives; prerequisite, VAX-11/750	4,150	48
CARTRIDGE DISK SUBSYSTEMS			
RL211-AK	10.4MB disk drive and control unit; one RL02K-DC data cartridge is included; expandable to a total of four RL02 drives; prerequisite, VAX-11/750	6,900	68 ►

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EQUIPMENT PRICES

		Purchase Price	Monthly Maint.
▶ CARTRIDGE DISK SUBSYSTEMS (Continued)			
RK711-EA (ED)	Single-access, free-standing 28MB disk drive and control unit expandable to a total of eight RK06 or RK07 drives; one RK07K-DC data cartridge is included; prerequisite, VAX-11/780	\$18,500	\$153
RK711-FA (FD)	Dual-access, free-standing 28MB disk drive and two control units expandable to a total of eight RK06 or RK07 drives; one RK07L-DC data cartridge is included; prerequisite, VAX-11/780	25,500	200
RK07-EA (ED)	Single-access, free-standing 28MB disk drive; one RK07L-DC data cartridge is included; prerequisite, VAX-11/780	13,000	121
RK07-FA (FD)	Dual-access, free-standing 28MB disk drive; one RK07K-DC data cartridge is included; prerequisite, VAX-11/780	16,800	137
RK07-PA (PD)	Single-access, free-standing 28MB disk drive; one RK07K-DC data cartridge is included; prerequisite, VAX-11/750	13,000	121
RL02-AK	10.4MB disk drive; one RL02K-DC data cartridge is included; prerequisite, VAX-11/750	5,600	60
RK711-C	Dual-access kit containing drive logic and hardware, one controller and cables to convert an RK711-E to an RK711-F	11,700	48
RK07-C	Dual-access kit containing drive logic, hardware and cables to convert an RK07-E to an RK07-F	4,100	16
RK07K-EF	Error free 28MB disk cartridge for RK07	650	NC
RK07K-AC	28MB alignment cartridge for RK07	1,483	NC
RK07K-DC	28MB disk cartridge for RK07	430	NC
RL02K-DC	10.4MB disk cartridge for RL02	199	—
MAGNETIC TAPE SUBSYSTEMS			
TS11-BA (BB)	1600 bpi, 9-track, 45 ips magnetic tape transport and control unit in a dedicated 60 inch H9602 cabinet; prerequisite, VAX-11/780	16,400	75
TS11-CA (CB)	1600 bpi, 9-track, 45 ips magnetic tape transport and control unit in a dedicated 60 inch H9646 cabinet; prerequisite, VAX-11/750	16,400	75
ASYNCHRONOUS MULTIPLEXERS			
DZ11-A	Asynchronous 8-line multiplexer for connection of eight EIA/CCITT terminals or lines	2,700	31
DZ11-B	Eight-line EIA/CCITT expansion multiplexer	2,150	27
DZ11-C	Asynchronous 8-line multiplexer for connection of 20mA current loop terminals	3,000	31
DZ11-D	Eight-line 20mA current loop expansion multiplexer	2,310	27
DZ11-E	Asynchronous 16-line multiplexer for connection of EIA/CCITT terminals or lines	4,350	53
DZ11-F	Asynchronous 16-line multiplexer for connection of 20mA current loop terminals	5,000	53
SINGLE LINE SYNCHRONOUS INTERFACES			
DMC11-AR	Network link DDCMP microprocessor module (for remote support)	1,700	20
DMC11-DA	Network link remote line unit module interfaces to EIA/CCITT synchronous modems (Bell series 200 compatible)	1,200	7
DMC11-FA	Network line remote line unit module interfaces to CCITT V.35/DDS synchronous modems (Bell 500A L1/5 or equivalent) at speeds up to 250,000 bpi	1,500	7
DMC11-AL	Network link DDCMP microprocessor module (local)	2,500	31
DMC11-MA	Network line local line unit module up to 1,000,000 bpi	2,500	7
DMC11-MD	Network link local line module; 56,000 bpi	2,000	7
DMR11-AA	Network link DDCMP microprocessor and line unit modules for remote support; speeds up to 19,200 bpi	4,400	37
DMR11-AC	Network link DDCMP microprocessor and line unit modules for local support; provides high speed connection to another DMR11 or DMC11	4,400	37
DUP11-DA	Full half-duplex synchronous interface	1,575	11
GENERAL PURPOSE UNIBUS INTERFACES			
DR11-K	General-purpose digital interface	940	8
DR11-KT	General-purpose digital interface with distribution panel and cables	1,360	8
PCL11-B	High-speed multiple computer link (500K bpi)	7,750	63
LINE PRINTERS			
LP11-AA	132-column, 64-character bank printer and control unit; 285 lpm	8,350	95
LP11-BA	132-column, 64- and 94-character band printer and control unit; 285 lpm when using 64-character set and 204 lpm when using 96-character set	8,950	95
LP11-CA (CD)	132-column, 64-character high speed printer and control unit; 900 lpm	32,500	195
LP11-DA (DD)	132-column, 96-character high speed printer and control unit; 600 lpm	34,500	195
LP11-YA (YD)	132-column, 64-character printer and control unit; 600 lpm	24,240	158
LP11-ZA (ZD)	132-column, 96-character printer and control unit; 436 lpm	26,280	158
LPR11-VA (VD)	132-column, 64-character remote printer subsystem; 250 lpm	19,000	207
LPR11-WA (WD)	132-column, 96-character remote printer subsystem; 240 lpm	21,500	207
LPR11-YA (YD)	132-column, 64-character remote printer subsystem; 525 lpm	27,200	242
LPR11-ZA (ZD)	132-column, 96-character remote printer subsystem; 420 lpm	28,900	242

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EQUIPMENT PRICES

► CARD READERS

		Purchase Price	Monthly Maint.
CR11 (-A)	300 cpm reader and control unit; reads 80-column punched cards	\$ 8,250	\$70
CR11-BC (BD)	600 cpm reader and control unit; reads 80-column punched cards	11,700	72
CME11-KA (KB)	250 cpm reader and control unit; reads 40- and 80-column punched cards	4,950	70

TERMINALS

LA34-DA	Table-top DECwriter IV printing terminal; includes universal power supply, standard EIA interface and EIA null modem cable; 30-character per second print speed and baud rates up to 300 bps	1,450	18
LA38-GA	Same as LA34-DA except can accommodate up to 4-part computer form as well as single sheets and computer paper	1,750	18
LA38-HA	Free-standing DECwriter IV printing terminal; includes stand, universal power supply, standard EIA interface and EIA null modem cable; 18-button numeric keypad, 30 cps print speed and baud rates up to 300 bps	1,850	18
LA120-DA	Free-standing DECwriter III high-speed interactive hardcopy terminal; 180 cps bidirectional printing with baud rates up to 9600	2,800	32
VT100-AA (AB)	High-performance, table top, video display terminal includes double-width/double-size characters, 80 columns x 24 lines or 132 columns x 14 lines, 95-character detachable keyboard	2,150	18
VT125-AA (AB)	An enhanced VT100 alphanumeric video terminal with data plotting extensions, automatic vector and curve generation	3,800	29
VT1XX-AB	Advanced Video Option; adds 10 additional lines of 132-column data for a total of 132 columns x 24 lines	150	4
VT1XX-AA	20mA current loop adapter	140	4
VT1XX-CA	20mA current loop adapter for VT125	140	4
VT1XX-CB	Upgrade/conversion kit to convert VT100 to VT125	2,000	11

SOFTWARE PRICES

		License Fee
QE001-AM	VAX/VMS operating system for VAX-11/780 on 9-track magtape	\$20,000
QE001-AV	VAX/VMX for VAX-11/780 on RK07 disk cartridge	20,000
QD001-AM	VAX/UMS for VAX-11/750 on 9-track magtape	20,000
QD001-AV	VAX/VMS for VAX-11/750 on RK07 disk cartridge	20,000
QE100-AY	VAX-11 FORTRAN on floppy disk (VAX-11/780)	8,700
QD100-AG	VAX-11 FORTRAN on TU58 tape (VAX-11/750) cartridge	8,700
QE099-AY	VAX-11 COBOL on floppy disk (VAX-11/780)	13,800
QD099-AG	VAX-11 COBOL on TU58 tape cartridge (VAX-11/750)	13,800
QE101-AY	VAX-11 COBOL-74 on floppy disk (VAX-11/780)	13,800
QD101-AG	VAX-11 COBOL-74 on TU58 tape cartridge (VAX-11/750)	13,800
QE095-AY	VAX-11 BASIC on floppy disk (VAX-11/780)	9,200
QD095-AG	VAX-11 BASIC on TU58 tape cartridge (VAX-11/750)	9,200
QE110-AY	VAX-11 PASCAL on floppy disk (VAX-11/780)	5,500
QD110-AG	VAX-11 PASCAL on TU58 tape cartridge (VAX-11/750)	5,500
QE067-AY	VAX-11 CORAL 66 on floppy disk (VAX-11/780)	10,000
QD067-AG	VAX-11 CORAL 66 on TU58 tape cartridge (VAX-11/750)	10,000
QE114-AY	VAX-11 PL/1 on floppy disk (VAX-11/780)	13,800
QD114-AG	VAX-11 PL/1 on TU58 tape cartridge (VAX-11/750)	13,800
QE106-AY	VAX-11 BLISS-32 on floppy disk (VAX-11/780)	13,800
QD106-AG	VAX-11 BLISS-32 on TU58 tape cartridge (VAX-11/750)	13,800
QE107-AY	FORTRAN IV/VAX-to-RSX Cross Compiler on floppy disk (VAX-11/780)	1,150
QD107-AG	FORTRAN IV/VAX-50-RSX Cross Compiler on TU58 tape cartridge (VAX-11/750)	1,850

COMMUNICATIONS

QED02-AY	DECnet-VAX on floppy disk (VAX-11/780)	6,000
QDD02-AG	DECnet-VAX on TU58 tape cartridge (VAX-11/750)	6,000
QE111-AY	VAX-11 2780/3780 Protocol Emulator on floppy disk (VAX-11/780)	6,400
QD111-AG	VAX-11 2780/3780 Protocol Emulator on TU58 tape cartridge (VAX-11/750)	6,400
QE070-AY	MUX200/VAX on floppy disk (VAX-11/780)	8,100
QD070-AG	MUX200/VAX on TU58 tape cartridge (VAX-11/750)	8,100

DATA MANAGEMENT

QE105-AY	PDP-11 DATATRIEVE/VAX on floppy disk (VAX-11/780)	5,180
QD105-AG	PDP-11 DATATRIEVE/VAX on TU58 tape cartridge (VAX-11/750)	5,180
QE701-AY	VAX-11 FMS Forms Management System on floppy disk (VAX-11/780)	5,180
QD701-AG	VAX-11 FMS on TU58 tape cartridge (VAX-11/750)	5,180
QE707-YY	DX/VMS on floppy disk (VAX-11/780)	2,900
QD707-YG	DX/VMS on TU58 tape cartridge (VAX-11/750)	2,900

ENGINEERING GRAPHICS UTILITIES

QE051-YY	VAX-11 Pen Plotter Utilities on floppy disk (VAX-11/780)	2,500
QD051-YG	VAX-11 Pen Plotter Utilities on TU58 tape cartridge (VAX-11/750)	2,500
QE055-YY	VAX-11 Digitizer Utilities on floppy disk (VAX-11/780)	2,500
QD055-YG	VAX-11 Digitizer Utilities on TU58 tape cartridge (VAX-11/750)	2,500
QE053-YY	VAX-11/Engineering Drawing Utilities on floppy disk (VAX-11/780)	2,750
QD053-YG	VAX-11/Engineering Drawing Utilities on TU58 tape cartridge (VAX-11/750)	2,750■