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DECsystem-10 DECSYSTEM-20



digital

LARGE COMPUTER GROUP

**COMPANY CONFIDENTIAL** 

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### THE FOLLOWING ARE CHANGES TO THE LARGE SYSTEMS PRICE LIST

## **New Options**

| Hardware  |  | Software   |  |
|---|--|--|--|
| 1090-PE(PF)<br>1090-PH(PJ)<br>1090L-PE(PF)<br>1090L-PH(PJ)<br>1090S-UK(UL)<br>1090S-UM(UN)<br>1090T-PE(PF)<br>1090T-PH(PJ)<br>1091-SE(SF)<br>1091L-SE(SF)<br>1091L-SE(SF) | DMR11-AC DMR11-AE DN20-MC(MD) DN21-JA(JB) DN200-MA(MB) DN200-MC(MD) DN200-MU KL10-FC(FD) LP100-BA(BB) LP20-JA RP07-AA(AB) RP07-BA(BB) RP07-C | QH062-DZ<br>QH062-XM<br>QH065-DZ<br>QH065-XM<br>QH215-AM<br>QH215-DZ<br>QH215-HM<br>QH215-HZ<br>QT062-EM<br>QT100-EM<br>QT100-NM<br>QT101-EM<br>QT101-NM | QT102-EL<br>QT102-NK<br>QT102-NL<br>QT214-AM<br>QT214-DZ<br>QT215-AM<br>QT215-DZ<br>QT215-HM<br>QT215-HZ<br>QTD04-AM<br>QTD04-DZ<br>QTD04-EM<br>QTD04-HM |
| 2020-MC(MD)<br>2020L-MA(MB)<br>2020L-MC(MD)<br>2020T-SE(SF)<br>2040-SE(SF)<br>2040-SH(SJ)<br>2040L-SH(SJ)<br>2040L-SH(SJ)<br>2040T-SE(SF)                                 | TM78-C<br>TU78-AB(AD)<br>TU78-AF(AJ)<br>VK100-AA(AB)<br>VT101-AA(AB)<br>VT125-AA(AB)<br>V1090-AA(AB)<br>V1090-AC(AD)<br>V1090-AE(AF)         | Deleted Op  Hardware  1090-PC(PD) 1090L-PC(PD)   | 2060L-PE(PF)<br>DN21-BA  |
| 2040T-SH(SJ)<br>2060-PH(PJ)<br>2060-PK(PL)<br>2060L-PH(PJ)<br>2060L-PK(PL)<br>2060T-PH(PJ)<br>2060T-PK(PL)  | V1090-AH(AJ)<br>V1090-AK(AL)<br>V1090-AM(AN)<br>V1091-AA(AB)<br>V1091-AC(AD)<br>V1091-AE(AF)<br>V1091-AH(AJ)                                 | 1091-SC(SD)<br>1091L-SC(SD)<br>1091L-SC(SD)<br>2040-SC(SD)<br>2040L-SC(SD)<br>2060-PE(PF)  | DN21-BB<br>DN21-DA(DB)<br>DN21-HA<br>DNSXX-AA<br>DNSXX-AB  |
| BC55M-98<br>BC55N-98<br>DF02-AA<br>DF02-AC<br>DF03-AA(AB)<br>DF03-AC(AD)<br>DMR11-AA<br>DMR11-AB  | V1091-AK(AL)<br>V1091-AM(AN)<br>V2060-AA(AB)<br>V2060-AC(AD)<br>V2060-AE(AF)<br>V2060-AH(AJ)<br>V2060-AK(AL)<br>V2060-AM(AN)                 | QH020-DZ<br>QH020-NM<br>QH020-NP<br>QH020-NZ   | QH020-XM<br>QH020-XP<br>QH647-NP   |

### **End User Policies and Procedures**

(Refer to page 5 of this Price List for OEM specific Policies and Procedures.)

This section on Policies and Procedures is an overview only. Contact the LCG Product Line for specific information.

#### **INSTALLATION**

- Field Service installation costs are included in the Initial Support Package with the Basic System Packages.
- Field Service installation costs for add-on hardware orders are not included in the option prices listed in the Price insert. Please add them to your order.

#### CABLES

Cable information is needed 60 days prior to delivery to be tested. Only those cables necessary for normal installation will be supplied with each order. Refer to the DECsystem-10 and/or DECSYSTEM-20 Site Preparation Guide for specific cable information. Communication cables are not included and must be ordered separately.

Replacement cables, and cables for reconfiguring systems and extending units, should be ordered from the Accessories and Supplies Group by dialing (800) 258-1710.

#### **LEASE RATES**

Due to significant fluctuations in interest rates, lease quotes require written confirmation from the LCG Product Line or the Customer Finance Department.

#### REFURBISHED EQUIPMENT

Refurbished equipment is subject to prior sale and is available only with written delivery commitment from the LCG Product Line. Tape drives, line printers, and card equipment are not available refurbished. Refurbished equipment will not be subject to additional discount, but the dollar value will be added to the aggregate level.

#### SPECIAL EQUIPMENT

Orders forwarded to Order Processing which include hardware or software not shown in this Price List should be accompanied by the LCG Product Line approval upon which the quotation was based, a copy of the quotation, and any supporting documentation.

#### **FOREIGN ATTACHMENTS**

In the event the customer installs non-DIGITAL equipment, it will become the customer's responsibility to ensure the system's performance and reliability since the interconnection of devices that are non-DIGITAL can have a marked effect on the system's performance. The system software in this case is also considered part of the entire system. Software for devices not purchased from DIGITAL will be licensed separately.

#### **DISCOUNTS**

End User

Refer to Accessories & Supplies Preface of the DIGITAL Standard Price List for discount information

N = Not Discountable

T = Discountable under the Terminals Volume Discount

Agreement

Y = Discountable

Contact the Contracts Department for any information on Discount Agreements.

#### PRICES

All prices listed are F.O.B. DIGITAL's plant in Massachusetts and apply in the continental United States only. Prices do not include shipping or transit insurance.

Options are offered for use only with supported DIGITAL software.

Equipment is scheduled and allocated by the LCG Product Line.

#### **EQUIPMENT RESERVATIONS**

Hardware can be reserved in anticipation of a customer's purchase order.

To reserve equipment, contact the appropriate LCG Product Line Representative and provide the following information:

- Salesperson's name, location, badge number, and booking center, P/L, FAC CODE & F/S Branch.
- Customer's name and address.
- Requested equipment which includes software, any inter-product line options and the requested delivery date.
- NOTE: The customer's purchase order must be received in the product line 60 days prior to the first day of the scheduled ship month.

#### **BOOKING INFORMATION**

The following information is required to book an order:

- One of the following:
  - 1. Signed DIGITAL Order Form.
  - 2. Signed DECsystem Purchase and Sale Agreement or, a purchase order from the customer with terms and conditions acceptable to DIGITAL.
- A software Program Sources License Agreement with each system order (once for each site).
- All cable requirements and floor plans.

Outlined below are the policies on cables for systems and add-ons:

#### 1. System Orders:

- a. Cable/floor plan information that is received at least 60 days prior to shipment will guarantee that the specified cables will be tested and shipped with the system.
- b. Cable information that is received between 30 and 60 days prior to shipment will result in the shipping of correct but untested cables with the system.
- c. Cable information that is received less than 30 days prior to shipment will result in the system being shipped with cables used to stage the system.

#### 2. Add-on Orders:

a. Cable information, when applicable, must be submitted with the Master Order Form and Contract or Purchase Order.

Orders submitted without meeting the above requirements will not be booked until the necessary information is complete.

### SMP OPTIONS—CONTROLLED RELEASE

| 1090S-UE | 1090S-UF | 1090S-UG | 1090S-UH |
|----------|----------|----------|----------|
| 1090S-UK | 1090S-UL | 1090S-UM | 1090S-UN |
| QH302-Xx | M9301-WA | M9301-WB |          |

Prior to booking orders which include any of the above options, you must secure the following signatures on the appropriate Customer Qualification Acknowledgement Form which is available from Customer Services Engineering in Marlboro.

- Branch Field Service Manager
- Branch Software Services Manager
- Sales Unit Manager

A copy should accompany your M.O.F. and the original given to the Branch Software Services Manager.

Refer to the 1090 Section of the Product Summary.

#### **DN22 FOR TOPS-20 - CONTROLLED RELEASE**

A TOPS-20 2780/3780/HASP for the 2020 Customer Qualification Acknowledgement form must be signed prior to scheduling the Shipment of the DN22-AA(AB). The Customer Qualification Acknowledgement forms are available from Customer Services Systems Engineering (CSSE) in Marlboro (MR1-1/S35). Signatures of the following managers must be secured on the acknowledgement form.

- Sales Unit Manager
- Software Service Unit Manager
- Field Service Branch Manager

The original copy of the qualification form should be given to the Unit Software Manager who will route it to CSSE in Marlboro.

#### LICENSE INFORMATION

A License is required for any Software Product and will be specified in the Software Product Descriptions.

The TOPS-10/20 Operating System License that is shown in the corresponding Software Product Description is the definition for the following:

TOPS-10/20 License

TOPS-10/20 Operating System License

TOPS-10/20 Monitor License

#### **GENERAL**

The first system sold must be a fully supported Basic System Package. Additional system sales may be License Only System Packages.

### **OEM Policies and Procedures**

#### INSTALLATION

Field Service installation costs are included in the Basic OEM System Package Price. However, when the appropriate OEM discount is deducted, *THIS DELETES HARDWARE INSTALLATION*. Per the contract, this may be purchased back at 5% of the MLP for installation and a 30 day on-site Warranty (I & W30) or at 3% of the MLP plus DSMC x 12 for installation with an obligation to purchase a one year field service contract immediately following installation (I & K).

#### **CABLES**

Cable information is needed 60 days prior to delivery for cables to be tested. Only those cables necessary for normal installation will be supplied with each order. Refer to the DECsystem-10 and/or DECSYSTEM-20 Site Preparation Guide for specific cable information. Communication cables are not bundled and must be ordered separately.

Replacement cables and cables for reconfiguring systems and extending units should be ordered through the Accessories & Supplies Group by dialing (800)258-1710.

#### **LEASE RATES**

Due to significant fluctuations in interest rates, lease quotes require written confirmation from the LCG Product Line of Customer Financing.

#### **REFURBISHED EQUIPMENT**

Refurbished equipment undergoes a comprehensive inspection and upgrade during which all field effort ECOs are incorporated and check or acceptance procedures are run.

#### Availability

- Equipment presently being refurbished by LCG follows.
- Availability inquiries should be directed to LCG Sales Service or Installed Base Marketing.

#### **Prices**

All prices are F.O.B. Digital's plant in Massachusetts and apply in the continental United States only. Prices do not include shipping or transit insurance.

Any pricing exception should be negotiated with the appropriate LCG Marketing Manager or Installed Base Marketing.

Refurbished equipment will not be subject to additional discount, but the dollar value will be added to the aggregate level.

#### **Equipment Reservations**

Refurbished hardware can be reserved in anticipation of a customer's purchase order.

To reserve equipment, contact the appropriate LCG Sales Service Representative and provide the following information:

- Salesperson's name, location, badge number, and booking center, P/L, FAC CODE, F/S Branch and customer code.
- Customer's name and address.
- Requested equipment which includes software, any inter-product line options and the requested delivery date.
- NOTE: Refurb activity will not begin until the purchase order is received by Order Administration in Marlboro.

#### **Booking Information**

The following information is required to book an order:

• An exception TWX from LCG Sales Service Manager is required to book an order. (This is because of the non-standard pricing.)

Outlined below are the policies on cables for systems and add-ons:

• Refurbished System Orders:

Cable/floor plan information must be received at least 60 days prior to shipment.

• Refurbished Add-on Orders:

Cable information, when applicable, must be submitted with the Master Order Form and Contract or Purchase Order 30 days prior to ship date.

#### **Installation and Warranty**

- Field Service installation costs for add-on hardware orders are not included in the option price. Please add them to your order.
- Installation and basic maintenance charge are available in Maintenance Section of Digital Standard Price List or from your local Field Service Marketing Specialist.
- Warranty for refurbished system orders is 90 days from the date of installation completion and 30 days for add-on orders.

#### **Important**

- \* ALL REFURBISHED ORDERS ARE SUBJECT TO EQUIPMENT AVAILABILITY.
- \* NO QUOTES SHOULD BE GIVEN WITHOUT AN EXCEPTION TWX FROM THE LCG SALES SERVICE MANAGER.

#### LCG REFURBISHED EQUIPMENT

| Option<br>Communications | Description  |
|--------------------------|--|
| DC10-B                   | 8-LINE GROUP   |
| DC20-AA                  | 8-LINE BASIC ASYNCH<br>GROUP                                       |
| DC20-CC                  | CABLES & DIST CAB FOR<br>DC20-AA                                   |
| DC20-CD                  | CABLES & DIST CAB FOR<br>DC20                                      |
| DC20-DA                  | 8-LINE ASYNCH EXPANSION GROUP                                      |
| DC20-EA(EB)              | COMMUNICATION EXPANSION CAB  |
| DC20-EC(ED)              | COMMUNICATION EXPANSION CAB  |
| DF10-A(B)                | 18-BIT DATA CHANNEL  |
| DF10-CA(CB)              | DATA CHANNEL (22-BIT)  |
| DIB20                    | DIA20 & BACKPLATE AND HARDWARE                                     |
| DK10                     | REAL TIME CLOCK  |
| DL10-AA(AB)              | DATA LINK (PDP-11 TO<br>PDP-10 MEMORY)                             |
| DL10-C                   | ADDITIONAL PDP-11 UNIBUS<br>PORT                                   |
| DN20-BA                  | 2.4K to 19.2K BAND SYNC<br>SINGLE LINE W/CONT.                     |
| DN20-BB                  | BASIC 2.4K TO 19.2K BAND<br>SYNC LINE EXPANDER                     |
| DN20-CA(CB)              | BASIC SYNC. COMM CAB,<br>11/34A, 32 KW CORE<br>MEMORY <sup>1</sup> |
| DN20-CC(CD)              | DN20-CA W/BLUE COSMETIC <sup>2</sup>                               |
| DN21-DA(DB)              | 56K BAUD SYNC COMM<br>EXPANSION DRAWER                             |

DN25-EA(EB) EIA ASYNCH COMM EXP

CABLES CAB, DN25-DA

DN25-EC(ED) DN25-EA(EB) W/BLUE

COSMETIC

DN81-EA(EB) ASYNCH LINE CAB EXP

DN81-EC ASYNCH LINE GROUP

(DDCMP) DH11-AA, DM11-BB

DN81-ED ASYNCH LINE GROUP

(DDCMP) DH11-AC, DM11-BB

DN81-FB EIA MODEM 8-LINE GROUP:

2 DM11-DB

DN81-FC EIA MODEM 8-LINE GROUP:

2 DM11-DC

DN81-H NPR SYNC EIA

DN87S-AA UNIVERSAL COMM.FRONT

END, 120V WITH DTE20

DN87S-AB UNIVERSAL COMM.FRONT

END, 240V WITH DTE20

DNHXX-AA(AB) BASIC UNIT RECORD

**EXPANSION CAB** 

**Central Processor Units** 

KI10 I/O ARITHMETIC

PROCESSOR, DK10

KL10-FA(FB) KL10-A WITH LA120 CONSOLE

**TERMINAL** 

Controllers

RH10-A MASSBUS INTERFACE

RH20 MASSBUS CONTROLLER

TD10-CA(CB) CONTROL W/SPACE FOR

3 TU56

**Tape Systems** 

**Masters** 

TU45A-EA(EB) TM02-CE(CF) &

TU45A-EE(EF)

TU45A-EC(ED) TM03-CE(CF) &

TU45-EH(EJ)

**Slaves** 

TU45-EE(EF)
TU45-EE, TERRA COTTA,

USED ON TM02

TU45A-EH(EJ) TU45A-EE, BLUE, USED ON

TM02

BA10 WIRED CAB FOR CR10,

LP10, XY10

CR10-D CARD READER, 1000 CPM

CR10-E CARD READER, 300 CPM

| Memory        |   |
|---------------|---|
| MB20-E        | 64K EXPANSION MODULE                    |
| MB20-GA(GB)   | 64K BASIC MEMORY                        |
| MB20-HA(HB)   | 128K BASIC MEMORY                       |
| MB20-HC(HD)   | 128K SECOND MEMORY                      |
| MB20-LA(LB)   | 256K BASIC MEMORY                       |
| MB20-LC(LD)   | 256K SECOND MEMORY                      |
| MC10-F        | EXTRA MEMORY PORT                       |
| MC10-G        | PAIR EXTRA MEMORY PORT                  |
| MF10-A        | 32K MEMORY MODULE                       |
| MF10-E        | 32K EXPANSION MEMORY                    |
| MF10-G        | 64K MEMORY MODULE                       |
| MF20-E        | 256K EXPANSION (4 MF20-M)               |
| MG10-E        | 32K 37 BIT EXPANSION<br>(4 MA20-M)      |
| MG10-GA       | MG10-G W/4 PAIR BUS<br>PORTS            |
| MG10-HA(HB)   | 128K MEMORY, CONTROL, CAB               |
| MH10-E        | 64K CORE MEMORY<br>EXPANSION (4 MB20-M) |
| MH10-H        | 128K CORE MEMORY<br>(2 MH10-E)          |
| MH10-LA(LB)   | 256K MEMORY, CONTROL<br>& CAB           |
| Line Printers |   |
| LP100-Bx      | LP100 CONTROLLER & LP07-BX              |
| LP100-Dx      | LP100 CONTROLLER & LP05-VX              |
| LP100-Ex      | LP100 CONTROLLER & LP05-WX              |
| LP100-Fx      | LP100 CONTROLLER & LP14-VX              |
| LP100-Hx      | LP100 CONTROLLER & LP14-WX              |
| LP20-Ax       | LP20 CONTROLLER & LP05-VX               |
| LP20-Bx       | LP20 CONTROLLER & LP05-WX               |
| LP20-Cx       | LP20 CONTROLLER & LP14-VX               |
| LP20-Dx       | LP20 CONTROLLER & LP14-WX               |
| LP20-Fx       | LP20 CONTROLLER & LP10-JX               |
| LP20-Hx       | LP20 CONTROLLER &                       |

LP10-KX

LP200-Bx LP20 CONTROLLER & LP07-BX

LP10-Fx (NEED BA10)

LP10-Hx (NEED BA10)

#### x - Denotes designator to be specified

#### SPECIAL EQUIPMENT

Orders forwarded to Order Processing which include hardware or software not shown in this summary should be accompanied by the LCG Product Line approval upon which the quotation was based, a copy of the quotation, and any supporting documentation.

#### FOREIGN ATTACHMENTS

In the event the customer installs non-DIGITAL equipment, it will become the customer's responsibility to ensure the system's performance and reliability since the interconnection of devices that are non-DIGITAL can have a marked effect on the system's performance. The system software in this case is also considered part of the system. Software for devices not purchased from DIGITAL will be licensed separately.

#### **GENERAL**

Before an "OFFICIAL" quote can be made, a customer must be an approved OEM. A planning quote may be given as a guideline. A statement should be added to all quotes stating "THIS QUOTE IS SUBJECT TO OEM TERMS AND CONDITIONS. PRICES QUOTED ARE FOR OEM SALES ONLY". Contact the LCG Product Line for details.

The first system sold must be a fully supported Basic System Package. Additional system sales should be License Only System Packages. Both Basic System and License Only Packages are OEM discountable as defined in the OEM discount type column of this Price List.

#### **DISCOUNT**

**OEM** 

D = 10% discount, no other discount applies

F = Refer to Accessories and Supplies Preface for discount information

N = Not Discountable

1 = Type one discount applies

2 = Type two discount applies

= Type three discount applies

#### **PRICES**

All prices listed are F.O.B. DIGITAL's plant in Massachusetts and apply in the continental United States only. Prices do not include shipping or transit insurance.

Options are offered for use only with supported DIGITAL software.

Equipment is scheduled and allocated by the LCG Product Line.

#### TRADE-INS

Not available to OEM's.

#### **FIELD SERVICE**

In order for Field Service to maintain OEM system packages, the system must include a tape and a printer. Currently DIGITAL cannot maintain DECSYSTEMS in all locations. Contact Field Service for locations where DECSYSTEMS can be supported. Refer to Field Service section of this document for other Field Service information.

#### **SOFTWARE**

For OEM sales, Type one discount applies to the license fee on all software products listed.

#### **SOFTWARE SERVICES**

Contact the LCG Product Line.

#### **SOFTWARE UNITS**

Not available to OEMs.

#### **CONFIGURATIONS**

OEM configuration rules are the same as for End User system.

### **Field Service**

(Refer to page 5 of this document for OEM specific policies and procedures.)

Field Service pricing shown in this Price List reflects 12-hour/5-day DECservice coverage with the exception of 2020, which is 8-hour service. Other cross-product options which may be used on the 2020 (i.e., CD20, LP20) are listed at the 12 hour DSMC and should be recomputed to the 8 hour DSMC by dividing by 1.04 when used on a 2020 configuration. 12 hour DSMC coverage includes:

- Field Service response within four(4) hours providing the call for service is received during the contracted hours of coverage.
- Continuous remedial service until the system is fully operational. If this service is performed outside the hours of coverage, there is no extra charge to that customer providing Field Service was notified during the contracted hours of coverage.
- Preventive Maintenance scheduled outside normal working hours.

All of the services noted above are provided at no additional cost.

DECservice coverage will be provided by designated Field Service locations, and the customer site must be within a 50-mile radius of the office (check with your local Branch Field Service Manager).

#### **REMOTE DIAGNOSIS (KLINIK)**

The maintenance prices documented in the DIGITAL Standard Price List for the following products assume the use of Remote Diagnosis in diagnosing system failure.

In situations where DIGITAL is prevented from using Remote Diagnosis, an additional charge will apply to the system's total monthly charge (U.S. + Canada only).

| SYSTEM         | NON-REMOTE DIAGNOSIS<br>UPLIFT CHARGE |
|----------------|---------------------------------------|
| DECsystem-1090 | \$250.00                              |
| DECsystem-1091 | \$250.00                              |
| DECSYSTEM-2020 | \$250.00                              |
| DECSYSTEM-2040 | \$250.00                              |
| DECSYSTEM-2060 | \$250.00                              |

#### U.S. AREA AND CANADA

In order for KLINIK to be utilized the customer is required to provide a 300 baud RS232-A asynchronous modem and a dedicated telephone land line, both at his expense and ensure that operators have access to the KLAD media for mounting.

#### **EXTENDED DECservice COVERAGE**

Use the following for determining extended coverages:

16-hour 5-day, DECservice 1.038 X DECservice 5-day pricing 24-hour 5-day, DECservice 1.115 X DECservice 5-day pricing

#### **SATURDAY COVERAGE**

12-hour DECservice: Add DECservice 5-day pricing X 0.092 16-hour DECservice: Add DECservice 5-day pricing X 0.108 24-hour DECservice: Add DECservice 5-day pricing X 0.131

#### **SUNDAY COVERAGE (SAME AS SATURDAY COVERAGE)**

#### Calculation examples:

System coverage for 16-hour DECservice, Monday through Saturday:

DECservice 5-day pricing X (1.038 + 0.092), or DECservice 5-day pricing X 1.13

System coverage for 24-hour DECservice, seven days per week:

DECservice 5-day pricing X (1.115 + .131 + .131), or DECservice 5-day pricing X 1.377

If your customer requires less than DECservice coverage, a basic coverage may be provided with approval from Field Service management and your LCG Product Line Representative.

This basic coverage may be computed as follows:

Basic coverage for 12-hour/5-day = .869 X DECservice 12-hour/5-day pricing

Basic coverage for 8-hour/5-day = .769 X DECservice 12-hour/5-day pricing

### **Software Services**

(Refer to page 5 of this document for OEM specific policies and procedures.)

Software Services are available to support TOPS-10 and TOPS-20 customers during any aspect of their system analysis, software development or implementation efforts. Services available start with the personal attention of a DIGITAL software consultant and continue with the distribution of up to date software and software information.

A software specialist often works with a DIGITAL sales respresentative to evaluate a prospective users' needs prior to purchase, recommends hardware/software solutions to problems and gives advice on the feasibility and costs of proposed solutions.

Depending on the software purchased, specialists are available to install software and provide software warranty support, and to assure that purchased software products perform to DIGITAL's commitments. Ongoing software support is assured through a variety of post-warranty Software Product Services, which offer customers the opportunity to keep their software up to date and running smoothly. A full range of Professional Software Services is available to assist customers throughout the planning, implementation and production phases of their system. Contact local Software Services for further information.

#### SOFTWARE SUPPORT LEVELS

DIGITAL software is categorized into two levels of support (DIGITAL or Customer Supported):

DIGITAL Installed DIGITAL Supported

Provides installation on-site remedial coverge when necessary during ninety (90) days following installation; SPR service, software updates, and software DISPATCHes during the first 90 days after installation.

Customer Installed DIGITAL Supported

Provides SPR service, software updates and software DIS-

PATCHes during the first 90 days after delivery.

Customer Installed
Customer Supported

Provided on an "as-is" basis with no services.

#### **SOFTWARE UNITS**

The "software units" column in the table in the Software Section of the LSG Product Summary shows the number of software units associated with each product.

#### **LICENSING OPTIONS**

A binary license entitles the customer to run the licensed software on the single CPU on which it is first installed. For purposes of licensing, dual processors (e.g., SMP) are considered as one CPU. The source license enables the user to make changes in the software, and applies to all CPUs at a single location.

#### LICENSE TO COPY OPTION (QXXXX-DZ)

The DZ is a license to run our software on an additional CPU using a copy of the software that the customer obtained from the original, supported license. The license-only option is an excellent way to license a backup CPU. DZ licenses do not apply to the TOPS-10 and TOPS-20 operating systems, only in the context of license only packaged systems ("L" series) due to the inclusion of the software in every DECsystem-10 and DECSYSTEM-20.

#### SOFTWARE INSTALLATION AND WARRANTY

For those products that require DIGITAL installation, a software specialist will install the software and verify that the system is complete. Software warranty services include:

- Telephone assistance and on-site remedial support, if necessary.
- Automatic delivery of in-warranty software product and documentation updates.
- Distribution of a periodic newsletter.
- Software Performance Reports are included under warranty services.

#### PROFESSIONAL SOFTWARE SERVICES

DIGITAL's software professionals are specifically trained in DIGITAL products and are experienced in designing, coding, and modifying custom software as well as tailoring TOPS-10 and TOPS-20 software to meet special needs. Software specialists are available to provide system analysis, application design review and optimization, and system/application integration. Resources are available to perform specific project tasks, supplement a customer's programming staff, or manage projects from start to completion.

Varying types of expertise are available, ranging from programmer to project manager, depending on requirements. Professional services are available at both resident and per-call rates, and also on a fixed-price project basis. Contact local Software Services for further information.

#### SOFTWARE PRODUCT SERVICES

Software Product Services (SPS) offers three levels of contract service and are available after installation, start-up and termination of warranty (usually 90 days). Each level of service contains a different array of service components to meet a variety of customer needs. Levels of services available are: DECsupport Service, Basic Service, and Self-Maintenance Service for software. In addition, Software Product Updates are available for the customer who requires no service.

#### **Software Product Updates**

Software Product Updates are out-of-warranty update kits. Kits include software and documentation; however, no services are provided.

Software Product Updates provide:

- Current version of software at a standalone price.
- The prerequisite for Basic and DECsupport, if the customer is not at current version, and is strongly recommended for Self-Maintenance Service.

#### Self-Maintenance Service for Software (SMS)

SMS is designed for companies with the technical expertise to maintain their own system.

#### SMS provides:

- Software Product and Documentation Updates
- Program Change Orders
- Dispatches (bi-monthly)
- Software Performance Reports

#### **Basic Service for Software**

Basic Service provides a higher level of service than SMS. Basic Service is designed for companies with the technical expertise to maintain their own system with occasional help.

#### Basic Service provides:

- Telephone support
- Software Product and Documentation Updates
- Program Change Orders
- Dispatches (bi-monthly)
- Software Performance Reports

#### **DECsupport Service for Software**

Our most comprehensive software support service. DECsupport Service is designed for companies who require uninterrupted system performance, yet don't want the added expense of training and maintaining their own staff.

#### DECsupport provides:

- Scheduled Preventive Maintenance
- On-Site Remedial Support
- Telephone Support
- Software Product and Documentation Updates
- Program Change Orders
- Dispatches (bi-monthly)
- Software Performance Reports

#### NOTE

- Software Product Service may be paid either monthly (if monthly bill exceeds \$100.00) or per service year.
- A 5% prepayment discount will be allowed for yearly payments for Software Product Services.
- Prerequisite: A software license for the host operating system and dependent products, plus the equivalent level SPS for the host operating system and dependent products.

#### **OPTIONS**

• Right-To-Copy Option (Qxxxx-HZ, Binary or Qxxxx-NZ, Binary/Source)

The HZ/NZ option allows the customer, who has a supported system, the right-to-copy update onto a single, additional like CPU.

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- Additional Dispatch Subscription
  - Hardcopy (QHK12-1Z, QT021-1Z)
  - Microfiche (QHK12-1R)
- Autopatch (Machine-readable Program Change Orders)
  - Products covered are those products currently Autopatchable
  - Included in Basic and DECsupport Service for Software
  - Available as an option for Self-Maintenance Service

#### Notebooks

- Additional Notebook Set and Subscription Service (QHK20-KZ, QT018-KZ)
- Notebook Update Service (QHK14-3Z, QT018-3Z)

### **Educational Services**

Educational Services' objective is to provide total educational support to every DECsystem-10 and DECSYSTEM-20 user no matter what level of experience or expertise.

#### People Make a Difference

The success of a DECsystem-10 or DECSYSTEM-20 depends largely on the customer's knowledge and complete understanding of features and capabilities. Those who have a clear understanding of their role relating to the system's functions will gain optimal usage and maximum efficiency from their computer system.

#### **Quality Education**

The course programs are developed with the user in mind. Just as DIGITAL is committed to manufacturing quality products, Digital Educational Services is committed to providing quality education. The TOPS-10 and TOPS-20 course programs are continually updated to represent state-of-the-art technology.

#### Flexible Formats Catering to Individual Needs

In order to meet a wide range of customer needs, Educational Services developed a variety of formats to satisfy any tight schedule or budget restraints.

- Lecture/Lab: 24 Training Centers around the world; over 500 computer systems dedicated solely to customer education.
- Self-Paced Instruction: Print, Audiovisual, and Computer-Based Instruction to learn wherever, and whenever study is convenient.
- On-Sites: Brings any Educational Services course to a site selected by the customer; modified to specific needs.
- Exclusives: Provides the benefits of an On-Site at one of Digital's 24 Training Centers.
- Management and Technical Seminars: For supervisory, middle, and upper management, management seminars are geared for the non-technical manager who must master computer efficiency without learning the nuts and bolts. For DP professionals, technical seminars focus on advanced uses of computer systems.

### **TOPS-10 and TOPS-20 Courses**

Below is a list of all the TOPS-10 and TOPS-20 courses and prices.

| Course      | Description   | Format      | Price  |
|-------------|---|-------------|--------|
| EY-J2070-AO | TOPS-10 User  | Lecture/Lab | \$800. |
| EY-J2086-AO | TOPS-10 Operator  | Lecture/Lab | 800.   |
| EY-J2072-AO | TOPS-10 Administration                                      | Lecture/Lab | 800.   |
| EY-J2074-AO | TOPS-10 Assembly<br>Language Program-<br>ming               | Lecture/Lab | 1,600. |
| EY-J2076-AO | TOPS-10 Adv. As-<br>sembly Language<br>Programming          | Lecture/Lab | 900.   |
| EY-J2078-AO | TOPS-10 Monitor<br>Structure                                | Lecture/Lab | 900.   |
| EY-J2080-AO | TOPS-10 Monitor Internals                                   | Lecture/Lab | 1,800. |
| EY-J0006-AO | TOPS-10 COBOL   | Lecture/Lab | 800.   |
| EY-J2084-AO | TOPS-10 Database<br>Management System                       | Lecture/Lab | 1,800. |
| EY-J2194-AO | TOPS-10/20 Applica-<br>tion Programming<br>Techniques       | Lecture/Lab | 900.   |
| EY-JB026-AO | DECsystem-10/DEC-<br>SYSTEM-20 DBMS<br>Instruction Concepts | Self-Paced  | 180.   |
| EY-J2090-AO | TOPS-20 Administration                                      | Lecture/Lab | 800.   |
| EY-J2102-AO | TOPS-20 Operator  | Lecture/Lab | 800.   |
| EY-CD051-SP | TOPS-20 Operator  | Self-Paced  | 1,650. |
| EY-J2088-AO | TOPS-20 User  | Lecture/Lab | 800.   |
| EY-J2092-AO | TOPS-20 Assembly<br>Language Program-<br>ming               | Lecture/Lab | 900.   |
| EY-J2422-AO | TOPS-20 Assembly<br>Language Program-<br>ming               | Lecture/Lab | 1,600. |

| EY-J2436-AO | TOPS-20 Software<br>Subsystems        | Lecture/Lab | 900.   |
|-------------|---------------------------------------|-------------|--------|
| EY-J2096-AO | TOPS-20 Monitor<br>Structures         | Lecture/Lab | 1,800. |
| EY-J2224-AO | TOPS-20 Monitor Internals             | Lecture/Lab | 1,800. |
| EY-J0008-AO | TOPS-20 COBOL                         | Lecture/Lab | 800.   |
| EY-J2100-AO | TOPS-20 Database<br>Management System | Lecture/Lab | 1,800. |

#### For More Information...

Contact the Educational Services Marketing Representative at any of the local Training Centers. Educational Services also provides a sales hotline number to support the sales force for a quick response to an urgent issue.

Sales Hotline: DTN 249-4282 Customer Hotline: (617) 276-4373

For more detailed descriptions of the courses and schedules refer to the DIGEST, a quarterly publication of Educational Services, which lists a six-month course schedule.

| Option No.<br>Description              | Price                   | EU Disc<br>Type<br>Prerequisite | Туре    | 12 HR<br>DSMC<br>CXC+par<br>KS | Add-on<br>Instl |
|--|-------------------------|---------------------------------|---------|--------------------------------|-----------------|
| 1077-UA<br>DUAL KI 1077 UPGR/          | 11,600<br>ADE S/W KIT   | Υ                               | 2       | N/A                            | 1,500           |
| 1090-PE ( PF )<br>256K SYS PKG T-10    |                         | Y                               | 2       | 2,699                          | N/A             |
| 1090-PH (PJ)<br>512K SYS PKG T-10      | 694,800<br>120V/60      | Y                               | 2       | 3,576                          | N/A             |
| 1090-VC (VD)<br>1090 U/G PKG,TOPS      |                         | Υ                               | 2       | 1,535                          | N/A             |
| 1090L-PE ( PF )<br>256K L/O PKG T-10 1 | 629,800<br>20V/60       | Y<br>1090-PE(PF)                | 2       | 2,699                          | N/A             |
| 1090L-PH ( PJ )<br>512K L/O SYS PKG T  |                         | Y<br>1090-PH(PJ)                | 2       | 3,576                          | N/A             |
| 1090S-UE (UF)<br>1090A TO 1090 SMP     | 440,000<br>U/G 120V/60  | Y<br>1090 "Model                | 2<br>A" | 1,275                          | N/A             |
| 1090S-UG (UH)<br>1090B TO 1090 SMP     |                         | Y<br>1090 "Model                | 2<br>B" | 1,275                          | N/A             |
| 1090S-UK (UL)<br>1090 SMP U/G W/ME     | 560,000<br>M 120V/60    | Y<br>1090 "Model                | 2<br>A" | 2,969                          | N/A             |
| 1090S-UM ( UN )<br>1090 SMP U/G W/ME   |                         | Y<br>1090 "Model                | 2<br>B" | 2,969                          | N/A             |
| 1090T-PE ( PF )<br>1090-PE W/AN 10 T-2 | 674,000<br>20 AN 60 HZ  | Υ                               | 2       | 2,693                          | N/A             |
| 1090T-PH ( PJ )<br>1090-PH W/AN 10 T-2 | 729,000<br>20 AN 60 HZ  | Y                               | 2       | 3,496                          | N/A             |
| 1091-SE (SF)<br>512K SYS PKG T-10      | 496,000<br>120V/60      | Y                               | 2       | 2,698                          | N/A             |
| 1091-SH (SJ)<br>256K SYS PKG T-10      | 476,000<br>120V/60      | Y                               | 2       | 2,465                          | N/A             |
| 1091L-SE (SF)<br>512K L/O SYS PKG T    | 486,000<br>-10 120V/60  | Y<br>1091-SE(SF)                | 2       | 2,698                          | N/A             |
| 1091L-SH (SJ)<br>256K L/O SYS PKG T    | 466,000<br>-10 120V/60  | Y<br>1091-SH(SJ)                | 2       | 2,465                          | N/A             |
| 2020-JE (JF)<br>256K SPL PKG,2RM0      | 168,500<br>03,T-20,60HZ | Y                               | N       | 1,071 8 hr.                    | N/A             |
| 2020-JG (JH )<br>256K SPL PKG,2RM0     | 168,500                 | Y                               | N       | 1,071 8 hr.                    | N/A             |
| 2020-KE ( KF )<br>256K SPL PKG,2RP0    | 198,500<br>6,T-20,60HZ  | Y                               | N       | 1,150 8 hr.                    | N/A             |
| 2020-KG ( KH )<br>256K SPL PKG,2RP0    | 198,500                 | Y                               | N       | 1,150 8 hr.                    | N/A             |
| 2020-MA ( MB )<br>384K SYS PKG,RP06    | 170,000                 | Y                               | 2       | 1,456 8 hr.                    | . N/A           |
| 2020-MC (MD)<br>384K SYS PKG,RP06      | 170,000                 | Y                               | 2       | 1,456 8 hr.                    | N/A             |

| Option No.<br>Description                | Price                     | EU Disc<br>Type<br>Prerequisites | Type | 12 HR<br>DSMC<br>CXCOPT | Add-or<br>Instl |
|--|---------------------------|----------------------------------|------|-------------------------|-----------------|
|  |                           |                                  |      | K5                      |                 |
| 2020-PE ( PF )<br>256K SYS PKG,RM0       |                           | Υ                                | 2    | 888 8 hr.               | N/A             |
| 2020-PG ( PH )<br>256K SYS PKG,RM0       |                           | Υ                                | 2    | 888 8 hr.               | N/A             |
|  |                           | Y                                | 2    | 888 8 hr.               | N/A             |
| 2020-SG (SH)<br>256K SYS PKG,RP06        | 144,800                   | Υ                                | 2    | 888 8 hr.               | N/A             |
| 2020L-MA ( MB )<br>384K L/O SYSPKG R     | 150,000                   | Y<br>2020-MA(MB)                 | 2    | 1,515                   | N/A             |
|  | 150,000                   | Y<br>2020-MC(MD)                 | 2    | 1,515                   | N/A             |
| 2020L-PE ( PF )<br>256K L/O SYSPKG,R     | 109,000                   | Y<br>2020-PE(PF)                 | 2    | 923                     | N/A             |
| <br>2020L-PG ( PH )<br>256K L/O SYSPKG,R | 109,000<br>M03,T10,60HZ   | Y<br>2020-PG(PH)                 | 2    | 923                     | N/A             |
|  |                           | Y<br>2020-SE(SF)                 | 2    | 923                     | N/A             |
| 2020L-SG (SH)<br>256K L/O SYSPKG,R       | 124,000                   | Y<br>2020-SG                     | 2    | 923                     | N/A             |
| 2020T-SE(SF)<br>2020-SE,W/AN22,TOI       | 181,400<br>PS20-AN,60 HZ  | Y                                | 2    | 918                     | N/A             |
| 2040-SE(SF)<br>512K SYS PKG T-20         | 392,100<br>120V/60        | Y                                | 2    | 2,539                   | N/A             |
|  |                           | Υ                                | 2    | 2,306                   | N/A             |
| 2040L-SE(SF)<br>512K L/O SYS PKG T       | 362,100<br>-20 120/60     | Y<br>2040-SE(SF)                 | 2    | 2,539                   | N/A             |
|  | 342,100<br>-20 120/60     | Y<br>2040-SH(SJ)                 | 2    | 2,306                   | N/A             |
| 2040T-SE(SF)<br>512K SYS W/AN20 T-       | 427,100<br>20120V/60      | , <b>Y</b>                       | 2    | 2,546                   | N/A             |
| 2040T-SH(SJ)<br>256K SYS W/AN20 T-       | 407,100<br>20 120V/60     | Y                                | 2    | 2,333                   | N/A             |
|  | 466,000<br>20V/60         | Y                                | 2    | 2,698                   | N/A             |
| 2060-PK ( PL )<br>256K SYS PKG T-20 1    | 446,000<br>20V/60         | Y                                | 2    | 2,465                   | N/A             |
| 2060-UA<br>2040-2060 UG W/MC2            | 125,000<br>20,T20 +       | Y<br>2040 "Model B"              | , 2  | N/A                     | 1,656           |
| 2060-UB<br>2040-2060 UG W/MC2            | 125,000<br>20,T20 + ,KLPV | Y<br>2040-"Model A"              | , 2  | N/A                     | 2,484           |
| 2060-UC<br>2050-2060 UG W/T20            | 12,500                    | Y<br>2050 "Model B"              | 2    | N/A                     | 552             |

| Option No.<br>Description                | Price              | EU Disc<br>Type<br>Prerequisites | Туре     | 12 HR<br>DSMC | Add-on<br>Instl |
|--|--------------------|----------------------------------|----------|---------------|-----------------|
| 2060-UD<br>2050-2060 UG W/T20 +          | 20,000<br>,KLPV    | Y<br>2050 "Model A               | 2<br>\`` | N/A           | 2,484           |
| 2060-UE<br>2040/50 TO 2060 RP20          | 125,000<br>UPGRADE | Y<br>2040 ''Model E              | 2        | N/A           | 1,654           |
| 2060-UF<br>2040/50 TO 2060 RP20          | 125,000<br>UPGRADE | Y<br>2040 ''Model E              | 2        | N/A           | 2,484           |
| 2060-UH<br>2040/50 TO 2060 RP20          | 12,500<br>UPGRADE  | Y<br>2050 ''Model E              | 2        | N/A           | 552             |
| 2060-UJ<br>2040/50 TO 2060 RP20          | 20,000<br>UPGRADE  | Y<br>2050 ''Model A              | 2        | N/A           | <br>2,484       |
| 2060L-PH (PJ)<br>512K L/O SYS T-20 120   |                    | Y<br>2060-PH(PJ)                 | 2        | 2,698         | N/A             |
| 2060L-PK ( PL )<br>256K L/O SYS T-20 120 | 416,000<br>V/60    | Y<br>2060-PK(PL)                 | 2        | 2,465         | N/A             |
| 2060T-PH(PJ)<br>512K SYS W/AN20 T-20     |                    | Υ                                | 2        | 2,692         | N/A             |
| 2060T-PK(PL)<br>256K SYS W/AN20 T-20     | 479,000<br>120V/60 | Y                                | 2        | 2,479         | N/A             |
| 70-11426-A0<br>OPT 100FT LPT CABLE       | 1,500<br>FOR 2020  | N                                | D        | N/A           | N/A             |
| BC03M-25<br>25' NULL MODEM EXT           | 70<br>CABLE        | Y                                | 2        | N/C           | N/A             |
| BC03M-A0<br>100' NULL MODEM EX           | 140<br>CABLE       | Y                                | 2        | N/C           | N/A             |
| BC03M-B5<br>250' NULL MODEM EX           | 200<br>Γ CABLE     | Y                                | 2        | N/C           | N/A             |
| BC03M-E0<br>500' NULL MODEM EXT          | 340<br>CABLE       | Y                                | 2        | N/C           | N/A             |
| BC03M-L0<br>1000' NULL MODEM EX          | 680<br>CT CABLE    | Y                                | 2        | N/C           | N/A             |
| BC05D-10<br>RS232MALE TO RS232           | 120<br>FEM(10')    | Α                                | Α        | N/C           | N/C             |
| BC05D-25<br>RS232 MALE TO RS232          | 140<br>? FEM 25'   | Α                                | Α        | N/C           | N/C             |
| BC10R-20<br>20' XY CABLE                 | 945                | N<br>RP20-CA                     | D        | N/C           | N/A             |
| BC10R-30<br>30' XY CABLE                 | 1,155              | N<br>RP20-CA                     | D        | N/C           | N/A             |
| BC10R-40<br>40' XY CABLE                 | 1,365              | N<br>RP20-CA                     | D        | N/C           | N/A             |
| BC10S-20<br>20' CNTL CABLE               | 840                | N<br>RTP20                       | D        | N/C           | N/A             |
| BC10S-50<br>50' CNTL CABLE               | 1,260              | N<br>RTP20                       | D        | N/C           | N/A             |

| Option No. Price Description                  | EU Disc<br>Type<br>Prerequisit | OEM Disc<br>Type<br>tes | 12 HR<br>DSMC | Add-on<br>Instl |
|---|--------------------------------|-------------------------|---------------|-----------------|
| BC10S-70 1,480<br>70' CNTL CABLE              | N<br>RTP20                     | D                       | N/C           | N/A             |
| BC10S-A0 1,995<br>100' CNTL CABLE             | N<br>RTP20                     | D                       | N/C           | N/A             |
| BC10W-25 975<br>COMMUNICATOR CABLE,25FT.      | Y<br>TX05-Ex+/                 | D<br>FB                 | N/A           | N/A             |
| BC10W-50 1,558 COMMUNICATOR CABLE,50FT.       | Y<br>TX05-Ex+/                 | D FB                    | N/A           | N/A             |
| BC10W-75 1,653 COMMUNICATOR CABLE,75FT.       | Y<br>TX05-Ex +/                | D<br>FB                 | N/A           | N/A             |
| BC10W-AO 2,237 COMMUNICATOR CABLE,100FT.      | Y<br>TX05-Ex+/                 | D<br>FB                 | N/A           | N/A             |
| BC10X-25 319<br>EMERGENCY POWER CABLE,25FT.   | Y<br>TX02-Ex +/                | D<br>RTP20              | N/A           | N/A             |
| BC10X-50 343 EMERGENCY POWER CABLE,50FT.      | Y<br>TX02-Ex +/                | D<br>RTP20              | N/A           | N/A             |
| BC10X-75 362<br>EMERGENCY POWER CABLE,75FT.   | Y<br>TX02-Ex +/                | D<br>RTP20              | N/A           | N/A             |
| BC10X-AO 356<br>EMERGENCY POWER CABLE,100FT.  | Y<br>TX02-Ex+/                 | _                       | N/A           | N/A             |
| BC10Y-25 524<br>BUS OR TAG CABLE,25FT.        | Y<br>TX02-Ex                   | D                       | N/A           | N/A             |
| BC10Y-50 756<br>BUS OR TAG CABLE,50FT.        | Y<br>TX02-Ex                   | D                       | N/A           | N/A             |
| BC10Y-75 751<br>BUS OR TAG CABLE,75FT.        | Y<br>TX02-Ex                   | D                       | N/A           | N/A             |
| BC10Y-AO 845<br>BUS OR TAG CABLE,100FT.       | Υ                              | D                       | N/A           | N/A             |
| BC10Z-25 1,453<br>CHANNEL BUS CABLE,25FT.     | Y<br>TX02-Ex + /               | D<br>/RTP20             | N/A           | N/A             |
| BC10Z-50 1,785<br>CHANNEL BUS CABLE,50FT.     | Y<br>TX02-Ex + /               | D                       | N/A           | N/A             |
| BC10Z-75 2,114<br>CHANNEL BUS CABLE,75FT.     | Y<br>TX02-Ex +                 | D                       | N/A           | N/A             |
| BC10Z-AO 2,819<br>CHANNEL BUS CABLE,100FT.    | Y<br>TX02-Ex +                 | D                       | N/A           | N/A             |
| BC11S-25 138<br>H856 TO H856 18 TW PR 25'     | Α                              | Α                       | N/A           | N/A             |
| BC55M-98 155<br>98 FT TRIAX AMP DMR11 LOCAL   | Y<br>DMR11                     | 2                       | N/C           | N/C             |
| BC55N-98 97 98 FT TWINAX AMP DMR11 LOCAL      | Y<br>DMR11                     | 2                       | N/C           | N/C             |
| BS10B-25 1,010 DRIVE BUS PWR + SIG CBLS 25FT. | Y<br>TX02-Ex                   | <b>D</b>                | N/A           | N/A             |

| Option No. Price Description                       | EU Disc<br>Type<br>Prerequisit | OEM Disc<br>Type<br>es | 12 HR<br>DSMC      | Add-on<br>Instl |
|--|--------------------------------|------------------------|--------------------|-----------------|
| BS10B-35 1,096 DRIVE BUS PWR + SIG CBLS 35FT.      | Y<br>TX02-Ex                   | D                      | N/A                | N/A             |
| BS10B-50 1,288 DRIVE BUS PWR + SIG CBLS 50FT.      | Y<br>TX02-Ex                   | D                      | N/A                | N/A             |
| CD20-AA (AB) 7,920<br>285 CPM READER 60HZ          | Y<br>1091 + /2040              | D<br>+/50+/60+/DNH     | 129<br>XX-Ax(2020) | 386             |
| CD20-CA (CB) 27,960<br>1200CPM CRD RDR + CTRL 60HZ | Y<br>1091 + /2040              | D<br>+/50+/60+/DNH     | 220<br>XX-Ax(2020) | 469             |
| DC20-AA 6,160<br>8-LINE BASIC ASYNCH GROUP         | Y<br>1091 +/2040               | 2<br>+/50+/60          | 109                | 649             |
| DC20-CC 2,585<br>CABLES + DIST CAB FOR DC20-AA     | Y<br>2040 + /50 +              | 2<br>/60               | N/C                | N/C             |
| DC20-CD 2,585<br>CABLES + DIST CAB FOR DC20        | Y<br>1091                      | 2                      | N/C                | N/C             |
| DC20-DA 1,870<br>8-LINE ASYNCH EXPANSION GP        | Y<br>DC20-AA                   | 2                      | 96                 | 241             |
| DC20-EA (EB) 12,980<br>COMM EXPANSION CAB 60HZ     | Y<br>DC20-CD                   | 2                      | 234                | 449             |
| DC20-EC (ED) 12,980<br>COMM EXPANSION CAB 60HZ     | Y<br>DC20-CC                   | 2                      | 234                | 449             |
| DF01-A 345 ACOUSTIC TELEPHONE COUPLER              | Α                              | F                      | 17                 | 158             |
| DF02-AA 450<br>300 DPS,FDX,ASYNC MODEM,EIA         | A                              | F                      | 16                 | 175             |
| DF02-AC 925<br>DF02-AA + M7177-YA AUTO CALL        | Α                              | F                      | 18                 | 175             |
| DF03-AA (AB) 950<br>300/1200 BPS,ASNC/SYNC MODEM   | Α                              | F                      | 18                 | 175             |
| DF03-AC (AD) 1,350 DF03-AA + M7177-YA AUTO CALL    | A                              | F                      | 20                 | 175             |
| DIB20 6,490 I/O BUS INTERFACE                      | N<br>1091 + /2040              | D<br>+/50+/60          | 55                 | 434             |
| DMR11-AA 4,400<br>NETWRK LINK EIA RS232-C/RS423    | Y<br>DN20-Mx+/                 | 2<br>DN21-Jx + /DN200- | 51<br>Mx           | 357             |
| DMR11-AB 4,400 NETWORK LINK CCITT V.35             | Y<br>DN20-Mx +/                | 2<br>DN21-Jx +/DN200-  | 51<br><b>M</b> x   | 357             |
| DMR11-AC 4,400 NETWORK LINK 56KB-1MB LOCAL         | Y<br>DN20-Mx +/                | 2<br>DN21-Jx           | 51                 | 357             |
| DMR11-AE 4,400 NETWORK LINK EIA RS422              | Y<br>DN20-Mx+/                 | 2<br>DN21-Jx           | 51                 | 357             |
| DN20-BA 4,235<br>SYNC LINE CTRL PLUS DN20-BB       | Y<br>DN20-Cx +/I               | 2<br>Mx                | 42                 | 228             |
| DN20-BB 1,650 SYNC LINE SPEEDS 2.4KB-19.2KB        | Y<br>DN20-BA +/                | 2<br>Dx                | 18                 | 208             |

| Option No. Price Description                          | EU Disc<br>Type<br>Prerequisite | Туре         | 12 HR<br>DSMC | Add-on<br>Insti |
|---|---------------------------------|--------------|---------------|-----------------|
| DN20-DA ( DB ) 11,770<br>EXPNSN DRAWER + DN20-BA 60HZ | Y<br>DN20-BA                    | 2            | 42            | 296             |
| DN20-MA ( MB ) 37,620<br>DEC20 128 KW FRTEND 60 HZ    | Y<br>2040 + /50 + /6            | 2<br>30      | 211           | 450             |
| DN20-MC ( MD ) 37,620<br>DEC10 128KW FRTEND 60HZ      | Y<br>1090+/1091                 | 2            | 211           | 450             |
| DN20-MU 7,000<br>DN20-C TO A DN20-M UPG               | Y<br>DN20-CA+/C                 | 2<br>B       | N/A           | 510             |
| DN21-JA (JB) 9,500<br>EXPANSION DRAWER 120V           | Y<br>DN20-Mx                    | 2            | 34            | 166             |
| DN22-AA (AB) 14,740<br>TOPS-20 IBM FR END FOR 2020    | Y<br>2020 + /DN20               | 2<br>·BA     | 172           | 570             |
| DN25-AA 5,335<br>8 ASYNCH LINE MUX & CONTRL           | Y<br>DN25-AB+/D                 |              | 56            | 228             |
| DN25-AB 2,695<br>DIST PANEL + DN25BA                  | Y<br>DN25-AA +/D                | 2<br>0x +/Ex | 42            | 166             |
| DN25-BA 2,035<br>8 ASYNC LINE INTERFACES              | Y<br>DN25 A + /D -              | 2<br>-/E     | 42            | 166             |
| DN25-DA ( DB ) 12,870<br>EXPNSN DRAWER + DN25-AA 60HZ | Y<br>DN25-E                     | 2            | 62            | 296             |
| DN25-EC ( ED ) 16,280<br>EXPANSION CAB + DN25-DA 60HZ | Y<br>DN20-CC+/C                 | 2<br>SD      | 88            | 517             |
| DN200-MA (MB) 29,200<br>REMOTE KERNAL STATION 120V    | Y<br>DN87 + /DN20               | 2            | 195           | 560             |
| DN200-MC ( MD ) 29,200<br>REMOTE STATION-T20 120V     | Y<br>DN20                       | 2            | 195           | 603             |
| DN200-MU 7,000<br>UPGRADE CORE TO MOS MR              | Y<br>DN200-AA(AE                | 2            | N/A           | 510             |
| DNCXX-AA (AB) 7,920<br>285 CPM CARD READER 60HZ       | Y<br>DN200                      | D            | 135           | 386             |
| DNHXX-AA (AB) 9,600<br>EXPANSION CABINET              | Y<br>2020+/CD20                 | D            | N/C           | N/A             |
| DT03-DT 11,770<br>1XZ I/O BUS SWITCH NO CAB           | N                               | N            | 64            | 407             |
| DT05-DT 12,320<br>1XZ MEMORY BUS SWITCH NO CAB        | N                               | N            | 65            | 407             |
| DZ11-AA 2,570<br>8 LINE ASYNCH MUX FOR 2020           | Y                               | 1            | 43            | 269             |
| DZ11-BA 2,050<br>8 LINE EXPANDER FOR 2020             | Y<br>DZ11-AA                    | 1            | 36            | 214             |
| KL10-FA (FB) 426,070<br>EXT ADDR CPU,60HZ             | Y                               | 2            | 1,214         | 2,898           |
| KL10-FC ( FD ) 546,070<br>EXT ADD CPU W/MEM 60 HZ     | · <b>Y</b>                      | 2            | 2,969         | N/A             |

| Option No. Description              | Price                     | EU Disc Of<br>Type<br>Prerequisites | EM Disc<br>Type | 12 HR<br>DSMC | Add-on<br>Insti |
|-------------------------------------|---------------------------|-------------------------------------|-----------------|---------------|-----------------|
| KL10-PM ( PG )<br>1080 TO 1090 UPGF | 56,125<br>RADE 120V60HZ   | Y                                   | 2               | N/C           | 828             |
| KL10-PV<br>KL10B TO KL10D U         | 66,875<br>PGRADE, KLPV    | Y<br>1090 "Model A"                 | 2               | N/C           | 1,656           |
| LA120-DA<br>LA120 UNIV PWR S        | 2,800<br>SUPPLY NUM PAD   | Υ                                   | 1               | 42            | 150             |
| LA12X-AL<br>20 MA INTERFACE         | 140<br>FOR LA120          | Y<br>LA120-DA                       | 1               | N/A           | 132             |
| LA38-AA<br>ENHANCED LA38G           | 1,550<br>AA W/FORMS CNTRL | Y                                   | 1               | 23            | 150             |
| LA38-BA<br>LA38AA WITH STA          | .,                        | Υ                                   | 1               | 23            | 150             |
| LAX34-CL<br>20MA INTERFACE          | 120<br>FOR LA34/L A38     | Y                                   | 1               | 4             | 132             |
| LP07-YA<br>CHARBAND FOR L           | 4,300<br>P07 64/64 EDP    | N<br>LP100-B+/LP200                 | _               | N/A           | N/A             |
| LP07-YB CHARBAND FOR L              | 4,300<br>.P07 96/96 EDP   | N<br>LP100-B+/LP200                 | D<br>-B         | N/A           | N/A             |
| LP07-YC<br>CHARBAND FOR L           |                           | N<br>LP100-B + /LP200               |                 | N/A           | N/A             |
| LP07-YD<br>CHARBAND FOR L           | 4,300<br>.P07 KATA KANA   | N<br>LP100-B+/LP200                 | D<br>-B         | N/A           | N/A             |
|                                     | 4,300                     | N<br>LP100-B+/LP200                 |                 | N/A           | N/A             |
| LP07-YH<br>SCI CHARBND,960          | 4,300<br>CH 2 SETS FONTS  | N<br>LP100-B+/LP200                 | D<br>-B         | N/C           | 173             |
| LP07-YJ<br>96 CH SCI AND ED         | 4,300                     | N<br>LP100-B+/LP200                 | D<br>-B         | N/C           | 173             |
| LP07-YK CHARBAND FOR L              | 4,300                     | N                                   | D               | N/A           | N/A             |
| LP07-YL<br>BRITISH CHARABA          | 4,300                     | N                                   | D               | N/A           | N/A             |
| LP07-YM  OPEN GOTHIC CH.            | 4,300                     | N<br>LP100-B+/LP200                 | D<br>FB         | N/A           | N/A             |
| LP100-BA (BB)                       | 63,100<br>BAND PRNTR 60HZ | Y<br>1040 thru 1090                 | D               | 551           | 568             |
| LP100-FA (FB)<br>890 LPM 64CHAR E   | 44,300                    | N<br>1040 thru 1090                 | D               | 378           | 772             |
| LP100-FC (FD)<br>890 LPM 64CHAR S   | 44,300                    | N<br>1040 thru 1090                 | D               | 378           | 772             |
| LP100-HA ( HB )<br>650 LPM 96CHAR E | 45,400                    | N<br>1040 thru 1090                 | D               | 378           | 772             |
| LP100-HC (HD)<br>650 LPM 96CHAR S   | 45,400                    | N<br>1040 thru 1090                 | D               | 378           | 772             |
| 000 LPW 90CHAR                      |                           | 1040 tilla 1080                     |                 |               |                 |

| Option No.<br>Description             | Price                   | EU Disc<br>Type<br>Prerequisi | OEM Disc<br>Type<br>tes | 12 HR<br>DSMC | Add-on<br>Insti |
|---------------------------------------|-------------------------|-------------------------------|-------------------------|---------------|-----------------|
| LP11-EA (EB)<br>600 LPM BAND PRIN     |                         | N                             | D                       | 186           | 595             |
| LP20-CA ( CB )<br>890 LPM DRUM 64 C   |                         | Y<br>1091 + /2020             | D<br>0+/40+/50+/60      | 355           | 781             |
| LP20-CC ( CD )<br>900LPM,64CHAR SCI   |                         | N<br>1091+/202                | D<br>0+/40+/50+/60      | 355           | 781             |
| LP20-DA ( DB )<br>650 LPM DRUM 96 CI  |                         | Y<br>1091+/2020               | D<br>0+/40+/50+/60      | 355           | 781             |
| LP20-DC ( DD )<br>600LPM,96 CHAR SC   | 0.,000                  | N<br>1091+/2026               |                         | 355           | 781             |
| LP20-JA<br>600 LPM BAND PRIN          | 18,700<br>TER 64/96 CH  | N<br>1091+/2020               | D<br>0+/40+/50+/60      | 244           | 595             |
| LP200-BA (BB)<br>1200 LPM CHARABA     | 54,600<br>ND PRNTR 60HZ | Y<br>1091+/2040               | _                       | 551           | 568             |
| M9301-WA<br>1090/91 SMP BOOT F        | 2,365<br>OR DN87S       | Y<br>DN87                     | D                       | 5             | 186             |
| M9301-WB<br>1090/91 SMP BOOT F        | 2,365<br>OR DN20-C      | Y<br>DN20                     | D                       | 5             | 186             |
| MF20-E<br>256K EXPANSION              | 30,000                  | Y<br>MF20-L                   | 2                       | 244           | 649             |
| MF20-LA (LB) 256K INTERNAL BAS        |                         | Y<br>1091/2040+               | 2<br>/60 "Model B"      | 618           | 3,450           |
| MF20-LC ( LD ) 256K INTERNAL SEC      |                         | Y<br>1091/2040+               | 2<br>/60 "Model B"      | 402           | 2,484           |
| MF20-LH ( LJ )<br>256K EXT.BASIC MEM  |                         | Y<br>2040 + /60               | 2                       | 618           | 3,000           |
| MF20-LK ( LL )<br>256K EXT. 2ND MEM.  | 50,400<br>60HZ          | Y<br>1091+/2040               | 2)+/60                  | 402           | 2,160           |
| MF20-LM (LN)<br>256K EXT. BASIC ME    | 50,400<br>M,BLUE,60HZ   | Y<br>1091                     | 2                       | 618           | 3,000           |
| MH10-E<br>64K WORDS MEMOR             | 25,000<br>Y             | Υ<br>MH10-H                   | 2                       | 143           | N/A             |
| MH10-LA ( LB )<br>256K 1.2USEC W/8 PC | 70,000<br>DRTS 60HZ     | Y<br>KL10-D                   | 2                       | 922           | 1,932           |
| MS10-BA <sup>1</sup> 64K MOS MEMORY E | 6,000<br>XPANSION       | Y<br>2020                     | 2                       | 73            | 318             |
| RH20 <sup>2</sup> INTERNAL CHANNEL    | 19,000                  | Υ                             | 2                       | 36            | 269             |
| RM03-AA (AD) SINGLE ACCESS RM0        | 20,300                  | Y<br>2020                     | 2                       | 200           | 683             |
| RP06-AA (AB) RP06 60HZ SINGLE A       | 34,000                  | Y<br>RH20                     | 2                       | 273           | 904             |
| RP06-BA ( BB )<br>RP06 60HZ DUAL ACC  | 39,140                  | Y<br>RH20                     | 2                       | 302           | 1,242           |

See Quantity Discount Schedule in Price List.

<sup>&</sup>lt;sup>2</sup> 1090/91/2040/50/60 for DIGITAL MASSBUS devices only: TU45, TU77, TU78, TX02, RP06, and RP07.

| Option No.  Description                  | Price                   | EU Disc O<br>Type<br>Prerequisites | EM Disc<br>Type   | 12 HR<br>DSMC | Add-on<br>Insti |
|--|-------------------------|------------------------------------|-------------------|---------------|-----------------|
| RP06-C<br>RP06 DUAL ACCESS K             | 5,150<br>IT             | Y<br>RP06-A                        | 2                 | 29            | 1,242           |
| RP07-AA (AB)<br>RP07 3PHASE 60H SIN      | 38,000<br>GLE ACCESS    | Y<br>RH20                          | 2                 | 234           | 720             |
| RP07-BA (BB)<br>RP07 3 PHASE 60HZ D      |                         | Y<br>RH20                          | 2                 | 260           | 895             |
| RP07-C<br>RP07 DUAL ACCESS K             | 5,150<br>IT             | Y<br>RP07-A                        | 2                 | 26            | 375             |
| RP20-AC (AD)<br>ADDON DSK,TOPS-10 I      |                         | N<br>RTP20-E                       | <b>D</b>          | 324           | 475             |
| RP20-AH (AJ)<br>ADDON DSK,TOPS-20 I      | 51,000<br>FORMAT 60HZ   | N<br>RTP20-F                       | D                 | 324           | 475             |
| RP20-CA<br>MASTER DUAL PORT L            | 4,000<br>JPGRADE 60HZ   | N<br>RTP20                         | D                 | 38            | 150             |
| RP20-CB<br>ADD-ON DUAL PORT U            | 2,500<br>PGRADE 50HZ    | N<br>RP20-A                        | D                 | 18            | 125             |
| RTP20-EA (EB) MASTER SUBSYSTEM/          | •                       | N<br>1091                          | D                 | 681           | 1,040           |
| RTP20-EC (ED) DUAL CHNL OPTION,1         | 68,000<br>091 60HZ      | N<br>RTP20-EA +/EB                 | D                 | 159           | 475             |
| RTP20-EE ( EF ) MASTER SUBSYSTEM/        |                         | N<br>1090                          | D                 | 681           | 1,040           |
| RTP20-EH (EJ) DUAL CHNL OPTION,1         | 68,000<br>090 60HZ      | N<br>RTP20-EE +/EF                 | D                 | 159           | 475             |
| RTP20-FA ( FB ) MSTR SYS 2400-S/2060     | •                       | N<br>RTP20-F                       | D                 | 681           | 1,040           |
| RTP20-FC (FD) DUAL CHNL OPT 2040/        | 68,000<br>50/60 60HZ    | . <b>N</b>                         | D                 | 159           | 475             |
| RTP20-FE ( FF ) MSTR SYS 2040-P/2050     | 149,000<br>-P 60HZ      | N<br>2040-P+/50-P                  | D                 | 681           | 1,040           |
| RTP20-FH ( FJ ) MSTR SUBSYS/ARPA,E       | 149,000<br>BLUE DX,60HZ | N<br>1090T                         | D                 | 681           | 1,040           |
| RTP20-FK ( FL ) MSTR SUBSYS/ARPA,C       | 149,000<br>DRNG DX,60HZ | N<br>2040T + /50T + /60            | D<br>T            | 681           | 1,040           |
| TAU77-EC ( ED )<br>2020 TAPE SYS 800/160 | 36,800<br>00 240/60     | Y<br>2020                          | 2                 | 373           | 1,028           |
| TM78-C DUAL ACCESS KIT                   | 5,150                   | Y<br>TU78-A                        | 2                 | 26            | 860             |
| TU72-EC (ED) TAPE DR 9TR 125IPS N        | 35,300<br>L 60HZ        | N<br>TX02-E                        | D                 | 216           | 414             |
| TU77-AF (AJ)<br>9 TRACK SLAVE 800/16     | 23,800<br>600 240/60    | Y<br>TU77-CB+/CD or                | 2<br>TAU77-EC+/ED | 251           | 552             |
| TU77-CB ( CD )<br>18 BIT MASTER 800/160  | 36,800<br>00 240/60     | Y<br>RH20                          | 2                 | 337           | 635             |

| Option No. Price Description                           | EU Disc<br>Type<br>Prerequisites | Туре       | 12 HR<br>DSMC | Add-on<br>Instl |
|--|----------------------------------|------------|---------------|-----------------|
| TU78-AB (AD) 48,000<br>SINGLE ACC MASTER 240V 60H      |                                  | 2          | 364           | 1,375           |
| TU78-AF (AJ ) 25,500<br>1600/6250 SLAVE DRIVE 240/60   | Y<br>TU78-AB(AD)                 | 2          | 221           | 520             |
| TX02-EC ( ED ) 96,800<br>MAG TAPE SUBSYS-TU70 HI-B60   | N<br>DHZ RH20                    | D          | 650           | 1,069           |
| TX02-EE ( EF ) 96,800<br>TAPE CONTROL W/C HNL-DEC2     | N<br>060HZ RH20                  | D          | 650           | 1,069           |
| TX02-EH ( EJ ) 96,800<br>MAG TAPE SUBSYS-TU70 CC-B6    | N<br>OHZ RH20                    | D          | 650           | 1,069           |
| TX03-A 7,040<br>TWO CHANNEL SWITCH FOR TX              | Y<br>K01 TU70C or TU             | D<br>72C   | 16            | 566             |
| TX03-EC (ED) 54,600<br>TWO CHNL SWITCH OPTION          | N<br>TX02-EC+/E                  | D<br>D     | 270           | 1,732           |
| TX03-EE ( EF ) 54,600<br>TWO CHNL SWITCH OPTION        | N<br>TX02-EE+/E                  | D<br>D     | 270           | 1,732           |
| TX03-EH (EJ) 54,600<br>TWO CHNL SWITCH OPTION          | N<br>TX02-EH+/E                  | D<br>D     | 270           | 1,732           |
| TX03-FB 12,800<br>TWO CHNL SWITCH OPTION               | N<br>(2) TX02-E                  | D          | 29            | 2,153           |
| TX05-A 7,040<br>2X16 TAPE SWITCH FOR TX01              | Y<br>TU70C+/TU7                  | D<br>72C   | 16            | 566             |
| TX05-EC (ED) 74,400<br>TWO CNTL SW OPTION + 2ND 0      | N<br>CNTL TX02-E                 | D          | 410           | 1,580           |
| TX05-FB 25,700<br>TWO CONTROLLER SWITCH OP             | N<br>TION (2) TX02-E             | D          | 29            | 2,401           |
| VK100-AA (AB) 2,500<br>GIGI KEYBOARD                   | N                                | N          | 30            | 150             |
| VT100-AA (AB) 1,945<br>DKBD CRT EIA UNIV PS 120VPLU    | Y<br>JG                          | 1          | 23            | 150             |
| VT101-AA (AB) 1,350<br>EIA BASE LEVEL CRT 120V US P    | Y<br>G                           | 1          | 20            | 150             |
| VT125-AA ( AB ) 3,800<br>VT100/GRAPHICS CRT 120/60 EIA | Y                                | 1          | 38            | 175             |
| VT1XX-AA 140<br>20MA CURRENT LOOP W/BC05F-             | Y<br>-15                         | 1.         | 5             | 132             |
| VT1XX-AB 180<br>ADVANCED VIDEO OPTION                  | Y<br>VT100                       | 1          | 5             | 132             |
| VT1XX-AC 350<br>VT100 PRINTER PORT OPTION              | Y<br>VT100 + /VT1                | 1<br>XX-AB | 9             | 132             |

| Option No. Price Description                             | EU Disc<br>Type<br>Prerequisite | OEM Disc<br>Type<br>es | 12 HR<br>DSMC | Add-on<br>Instl |
|--|---------------------------------|------------------------|---------------|-----------------|
| V1090-AA (AB) 49,530<br>32 LN COMM PKG W/32 VT100-AA     | Y<br>(see note)                 | 2                      | 827           | N/A             |
| V1090-AC (AD) 79,300<br>48 LN COMM PKG W/48 VT100-AA     | Y<br>(see note)                 | 2                      | 1,294         | N/A             |
| V1090-AE (AF) 106,430<br>64 LN COMM PKG W/64 VT100-AA    | Y<br>(see note)                 | 2                      | 1,746         | N/A             |
| V1090-AH (AJ) 227,765<br>128 LN COM PKG W/128 VT100-AA   | Y<br>(see note)                 | 2                      | 3,591         | N/A             |
| V1090-AK (AL ) 206,430<br>64 LN COM W/64 VT100-AA/MEM    | Y<br>(see note)                 | 2                      | 2,623         | N/A             |
| V1090-AM ( AN ) 327,765<br>128 LN COM/W128 VT100-AA/MEM  | Y<br>(see note)                 | 2                      | 4,468         | N/A             |
| V1091-AA (AB) 52,830<br>32 LINE COMM PKG/W32 VT100-AA    | Y<br>(see note)                 | 2                      | 944           | N/A             |
| V1091-AC (AD) 92,665<br>48 LINE COMM PKG/W48 VT100-AA    | Y<br>(see note)                 | 2                      | 1,632         | N/A             |
| V1091-AE (AF) 123,095<br>64 LINE COM PKG W/64 VT100-AA   | Y<br>(see note)                 | 2                      | 2,201         | N/A             |
| V1091-AH (AJ) 251,635<br>128 LN COM PKG W/128 VT100-AA   | Y<br>(see note)                 | 2                      | 4,597         | N/A             |
| V1091-AK (AL ) 159,095<br>64 LN COM W/64 VT100-AA/MEM    | Y<br>(see note)                 | 2                      | 2,666         | N/A             |
| V1091-AM ( AN ) 287,635<br>128 LN COM W/128 VT100-AA/MEM | Y<br>I (see note)               | 2                      | 5,062         | N/A             |
| V2060-AA (AB) 52,830<br>32 LN COMM PKG W/32 VT100-AA     | Y<br>(see note)                 | 2                      | 944           | N/A             |
| V2060-AC (AD) 92,665<br>48 LN COM PKG W/48 VT100-AA      | Y<br>(see note)                 | 2                      | 1,632         | N/A             |
| V2060-AE (AF) 123,095<br>64 LN COM PKG W/64 VT100-AA     | Y<br>(see note)                 | 2                      | 2,201         | N/A             |
| V2060-AH (AJ ) 251,635<br>128 LN COM PKG W/128 VT100-AA  | Y<br>(see note)                 | 2                      | 4,597         | N/A             |
| V2060-AK (AL) 159,095<br>64 LN COM W/64 VT100-AA/MEM     | Y<br>(see note)                 | 2                      | 2,666         | N/A             |
| V2060-AM ( AN ) 287,635<br>128 LN COM W/128 VT100-AA/MEM | Y<br>I (see note)               | 2                      | 5,062         | N/A             |

**NOTE**Terminal packages are available at the time of system sale only.

| Option<br>Number<br>Description |                          | onthly Self-<br>flaint. Fee | Option Monthly<br>Number Price (\$) Maint.<br>Description |     |
|---------------------------------|--------------------------|-----------------------------|---|-----|
| QH045-AM<br>IQL-10 EXT,MT       |                          | 115                         | QH072-AM 11,500<br>APL BASIC-10,MT9,1600                  | 86  |
| QH045-AP<br>IQL-10 EXT,MT       |                          | 115                         | QH072-AP 11,500<br>APL BASIC-10,MT9,800                   | 86  |
| QH045-DZ<br>IQL-10 LICENS       |                          | N/A                         | QH072-DZ 2,000<br>APL BASIC-10 LICENSE ONLY               | N/A |
| QH045-HM<br>IQL-10 V3 UPD       |                          | N/A                         | QH072-HM 2,200 I<br>APL10-BSC V2 UPD N/S                  | N/A |
| QH045-HP<br>IQL-10 V3 UPD       |                          | N/A                         | QH072-HP 2,200 I<br>APL10-BSC V2 UPD N/S                  | N/A |
| QH045-HZ<br>IQL-10 RT TO 0      |                          | 53                          | QH072-HZ 456<br>APL10-BSC RT TO COPY UPD                  | 40  |
| QH060-AM<br>CPL-10,MT9,16       |                          | 63                          | QH074-AM 17,300 I<br>APL10-SF UPG FR B,BSCMT9,1600        | N/A |
| QH060-AP<br>CPL-10,MT9,80       | -,                       | 63                          | QH074-AP 17,300 I<br>APL10-SF UPG FR B,BSC MT9,800        | N/A |
| QH060-DZ<br>CPL-10 LICENS       |                          | N/A                         | QH076-AM 3,450 N<br>APL10SF UPG FR APLE,FMT9,1600         | N/A |
| QH060-HM<br>CPL-10 MT9 16       | •                        | N/A                         | QH076-AP 3,450 N<br>APL10SF UPG FR APLE,FMT9,800          | N/A |
| QH060-HP<br>CPL-10 MT9 80       | •                        | N/A                         | QH099-DZ 2,600 N<br>COBOL68/74 + S/M LICENSE ONLY         | N/A |
| QH060-HZ<br>CPL-10 RT TO        |                          | 29                          | QH099-NM 2,860 N<br>COBOL68/74 W S/M V12A UPD N/S         | N/A |
| QH062-DZ<br>T10 2780/3780/      | 4,000<br>HASP LIC ONLY   | N/A                         | QH099-NP 2,860 N<br>COBOL68/74 W S/M V12A UPD N/S         | N/A |
| QH062-XM<br>T10 2780/3780/      | 10,000<br>HASP SRC 16MT9 | 130                         | QH099-NZ 661<br>COBOL 68/74 S/M RT TO CPY UPD             | 58  |
| QH065-DZ<br>TOPS-10 2780/3      | .,                       | N/A                         | QH099-XM 16,500 1<br>COBOL-68/74 + S/M,MT9,1600           | 125 |
| QH065-XM<br>T10 2780/3780 \$    | 2,500<br>SRC UPG 16MT9   | N/A                         | QH099-XP 16,500 1<br>COBOL-68/74 + S/M,MT9,800            | 125 |
| QH071-AM<br>APL-SF-10,MT9       | ,                        | 145                         | QH101-AM 34,500 2<br>DBMS-10,MT9,1600                     | 265 |
| QH071-AP<br>APL-SF-10,MT9       |                          | 145                         | QH101-AP 34,500 2<br>DBMS-10,MT9,800                      | 265 |
| QH071-DZ<br>APL-SF-10 LICE      | •                        | N/A                         | QH101-DZ 6,000 N<br>DBMS-10 LICENSE ONLY                  | N/A |
| QH071-HM<br>APL10-SF V2 U       | .,                       | N/A                         | QH101-HM 6,600 N<br>DBMS-10 MT9 1600 UPD N/S              |     |
| QH071-HP<br>APL10-SF V2 U       |                          | N/A                         | QH101-HP 6,600 N<br>DBMS-10 MT9 800 UPD N/S               | N/A |
| QH071-HZ<br>APL10-SF RT To      |                          | 67                          | QH101-HZ 1,379 1<br>DBMS-10 RT TO COPY UPD                | 121 |

| Option<br>Number<br>Description      | Mo<br>Price (\$)            |          |                     | Price (\$)                 | Monthly Self-<br>Maint. Fee |
|--------------------------------------|-----------------------------|----------|---------------------|----------------------------|-----------------------------|
| QH115-AD<br>BLISS-36 V3.0            |                             | N/A      | QH303-NM<br>TOPS 10 | 4,060<br>/1091 UPD N/S     | N/A                         |
| QH115-AM<br>BLISS-36 V3.0            |                             | N/A      | QH303-NP<br>TOPS 10 | 4,060<br>/1091 UPD N/S     | N/A                         |
| QH115-DZ<br>BLISS-36 V3.0            |                             | · N/A    | QH303-NZ<br>TOPS 10 | 1,231<br>/1091 RT TO COPY  | UPD 108                     |
| QH115-HM<br>BLISS-36 UPD             | 1,500<br>N/S MTA 1600       | N/A      | QH304-3M<br>TOPS10  | 239<br>AUTOPATCH OPT       | 21<br>ION 16MT9             |
| QH115-HZ<br>BLISS-36 V3.0            | 690<br>RT TO COPY UPD       | N/A      |                     | 2,000<br>NN-10 LICENSE ON  | N/A<br>LY                   |
| QH215-AM<br>DECMAIL/MS-              | 15,000<br>10 BASE PROGRAI   |          | QH500-NM<br>FORTRA  | 2,200<br>NN-10 MT9 1600 UP | N/A<br>D N/S                |
| QH215-DZ<br>DECMAIL/MS-              | 8,000<br>10 BASE LIC ONLY   | N/A      | QH500-NZ<br>FORTRA  | 479<br>AN-10 RT TO COPY    | 42<br>UPD                   |
| QH215-HM<br>DECMAIL/MS-              | 1,225<br>-10 BASE PROG UP   | N/A<br>D | QH500-XM<br>FORTRA  | 11,500<br>AN-10,MT9,1600   | 92                          |
| QH215-HZ<br>DECMAIL/MS-              | 580<br>10 RT TO COPY UF     | 34<br>PD | QH502-DZ<br>ALG0L-1 | 2,000<br>IO LICENSE ONLY   | N/A                         |
| QH300-DZ<br>SORT/MERGE               | 600<br>E-10 LICENSE ONLY    | N/A      | QH502-NM<br>ALGOL-  | 2,200<br>10 MT9 1600 UPD N | N/A<br>N/S                  |
| QH300-NM<br>SORT/MERGE               |                             | N/A      | QH502-NP<br>ALGOL-  | 2,200<br>10 MT9 800 UPD N  | N/A<br>/S                   |
| QH300-NP<br>SORT/MERGE               | 660<br>E V4 UPD N/S         | N/A      | QH502-NZ<br>ALGOL-  | 376<br>10 RT TO COPY UF    | 33<br>PD                    |
|                                      | 182<br>E 10 RT TO COPY U    | 16<br>PD |                     | 11,500<br>10,MT9,1600      | 72                          |
| QH300-XM<br>SORT/MERGE               | 3,450<br>E-10,MT9,1600      | 34       | QH502-XP<br>ALGOL-  | 11,500<br>10,MT9,800       | 72                          |
| QH300-XP<br>SORT/MERGE               |                             | 34       | QH503-DZ<br>BASIC-1 | 1,200<br>10 LICENSE ONLY   | N/A                         |
| QH302-NM                             | 4,060<br>P MT9,1600 UPD N/S | N/A      | QH503-NM<br>BASIC-  | 1,560<br>10 MT9 1600 UPD N | N/A                         |
| QH302-NP                             | 4,060<br>P MT9,800 UPD N/S  | N/A      | QH503-NP<br>BASIC-  | 1,560<br>10 MT9 800 UPD N/ | N/A                         |
| QH302-NZ<br>TOPS 10 MPE              | 1,231<br>ERT TO COPY UPD    | 108      | QH503-NZ<br>BASIC   | 456<br>10 RT TO COPY UP    | 40<br>PD                    |
| QH302-XM<br>TOPS 10 MPE              | 11,600                      | N/A      | QH503-XM<br>BASIC-  | 6,900<br>10 SRC SVC 16MT9  | 86                          |
| QH302-XP<br>TOPS 10 MPE              | 11,600                      | N/A      | QH503-XP<br>BASIC-  | 6,900<br>10 SRC SVC 8MT9   | 86                          |
| QH303-3M <sup>2</sup><br>TOPS10/1091 | 2,720                       | 238      | QH509-XM<br>COBOL   | 11,500<br>.68/74/STMRGE UP | N/A<br>G FR SRT             |
| QH303-3P <sup>2</sup><br>TOPS10/1091 | 2,720<br>MT9 800            | 238      | QH509-XP            | 11,500<br>.68/74/STMRGE UP | N/A                         |

Operating System Software is included with the system packages. Maintenance service must be ordered separately by the "Q" number.

| Option<br>Number<br>Descript        | Price (\$)                    | Monthly Self-<br>Maint. Fee | Option<br>Number<br>Descri     | Price (\$)<br>option          | Monthly Sel<br>Maint. Fee |
|-------------------------------------|-------------------------------|-----------------------------|--------------------------------|-------------------------------|---------------------------|
|                                     | 3,450<br>8/74,S/M UPG FR 68 N |                             | QH649-3P <sup>2</sup><br>TOPS1 | 2,720<br>0/1080-90 MT9 800    | 238                       |
| QH512-XP<br>COBOL 68                | 3,450<br>8/74,S/M UPG FR 68 N |                             |                                | 4,060<br>0/1080-90 UPD N/S 10 | N/A<br>6MT9               |
| QH603-DZ<br>DEC10 27/               | 3,450<br>3780 V7.01 LIC ONLY  | N/A                         |                                | 4,060<br>0/1080-90 UPD N/S 8I |                           |
| QH603-NM<br>DEC10 27/               | 2,485<br>3780 UPD N/S         | N/A                         |                                | 1,231<br>0/1080-90 RT TO COF  |                           |
| QH603-NP<br>DEC10 27/               | 2,485<br>3780 UPD N/S         | N/A                         | QH666-EK<br>TOPS10             | 23,000<br>0 FRONT END SOUR    | N/A<br>CES RP04           |
|                                     | 752<br>/3780 RT TO COPY UI    |                             |                                | 23,000<br>FRONT END SOUR      |                           |
| QH603-XM<br>DEC10 27/3              | 8,600<br>3780 V7.01 MT9,1600  | 145                         | QH666-NK<br>TOPS10             | 4,000<br>FRONT END SRC U      | N/A<br>IPD RP04           |
| QH603-XP<br>DEC10 27/3              | 8,600<br>3780 V7.01 MT9,800   | 145                         | QH666-NL<br>TOPS10             | 4,000<br>FRONT END SRC U      |                           |
| QH615-NM<br>GALAXY 10               | 880<br>O V2 UPD N/S           | N/A                         |                                | 6,900<br>T-10 V2 LICENSE ON   |                           |
| QH615-NP<br>GALAXY 10               | 880<br>V2 UPD N/S             | N/A                         | QH682-NM<br>DECNE              | 3,762<br>T-10 UPD N/S 16MT9   | N/A                       |
| QH615-XM<br>GALAXY-10               | 4,600<br>V2 SRC + BIN M9-16   | N/A<br>600                  | QH682-NP<br>DECNE              | 3,762<br>T-10 UPD N/S 8MT9    | N/A                       |
| QH615-XP<br>GALAXY-10               | 4,600<br>V2 SRC + BIN M9      | N/A                         |                                | 1,254<br>T-10 RT TO COPY UP   | 110<br>D                  |
| QH647-3M <sup>2</sup><br>TOPS10/202 | 2,720<br>20 MT9 1600          | 216                         | QH682-XM<br>DECNE              | 17,300<br>T-10 V2 16MT9       | 240                       |
| QH647-3P <sup>2</sup><br>TOPS10/202 | 2,720<br>20 MT9 800           | 216                         | QH682-XP<br>DECNE              | 17,300<br>T-10 V2 8MT9        | 240                       |
| QH647-NM<br>TOPS10/202              | 4,060<br>20 MT9 1600 UPD N/S  | N/A                         | QH709-YM<br>DX/TOP             | 2,900<br>S-10 WPS-HST UTLM    | N/A<br>T91600             |
| 0H647-NZ<br>TOPS 10/20              | 1,231<br>20 RT TO COPY UPD    | 108                         | QH709-YP<br>DX/TOP             | 2,900<br>S-10 WPS-HST UTLM    | N/A<br>T9 800             |
| 0H648-3M²<br>TOPS10/106             | 2,747<br>60-70 MT9 1600       | 241                         | QH850-NM<br>KL10 MI            | 640<br>CRO SRC UPD T10        | N/A                       |
| H648-3P <sup>2</sup><br>TOPS10/106  | 2,747<br>60-70 MT9 800        | 241                         | QH850-NP<br>KL10 MI            | 640<br>CRO SRC UPD T10        | N/A                       |
| H648-NM<br>TOPS10/106               | 4,060<br>60-70 UPD N/S 16MT9  | N/A                         | QH850-YD<br>DEC10/2            | 50,600<br>O MAINT PRD KL10A   | N/A<br>/BMT9              |
| H648-NP<br>TOPS10/106               | 4,060<br>0-70 UPD N/S 8MT9    | N/A                         | QH850-YM<br>KL10 MI            | 50,600<br>CRO SRC T10 V2N/S   | N/A<br>1600               |
| H648-NZ<br>TOPS10/106               | 1,231<br>0-70 RT TO COPY UP   | 108<br>D                    | QH850-YP<br>KL10 MI            | 50,600<br>CRO SRC T10 V2N/S   | N/A<br>800                |
| H649-3M <sup>2</sup><br>TOPS10/108  | 2,720<br>0-90 MT9 1600        | 238                         |                                | 285<br>ADD'L DISPATCH SU      | 25<br>JB MF               |

<sup>&</sup>lt;sup>2</sup> Operating System Software is included with the system packages. Maintenance service must be ordered separately by the "Q" number.

| Option<br>Number<br>Description | Price (\$)                      | Monthly Self-<br>Maint. Fee | Option<br>Number<br>Descriptio | Price (\$) Mair               | nly Self-<br>nt. Fee |
|---------------------------------|---------------------------------|-----------------------------|--------------------------------|-------------------------------|----------------------|
|                                 | 330<br>DISPATCH SUI             | 29<br>B HC                  |                                | 3,450<br>GE-20,MT9,1600       | 34                   |
| QHK14-3Z<br>TOPS10 NOTE         | 559<br>BOOK UPD SVC             | 49                          |                                | 600<br>GE-20 LICENSE ONLY     | N/A                  |
| QHK20-KZ<br>TOPS10 NOTE         | 1,100<br>BOOK SET + SU          | N/A<br>IB                   | QT007-HM<br>SORT/MER           | 660<br>GE-20 UPD N/S MT9160   | N/A<br>0             |
| ZH006-CM<br>DEC10/20 MAII       | 50,600<br>NT PROD KL100         | N/A                         | QT007-HZ<br>SORT/MER           | 182<br>GE 20 RT TO COPY UPD   | 16                   |
| ZH006-CP<br>DEC10/20 MAII       | 50,600<br>NT PROD KL100         | N/A                         | QT008-AM<br>DBMS-20,N          | 34,500<br>/IT9,1600           | 265                  |
| ZH007-CM<br>DEC10/20 MAII       | 50,600<br>NT PROD KL10E         | N/A                         | QT008-DZ<br>DBMS-20 L          | 6,000<br>ICENSE ONLY          | N/A                  |
| ZH007-CP<br>DEC10/20 MAIR       | 50,600<br>NT PROD KL100         | N/A                         | QT008-HM<br>DBMS 20 U          | 7,800<br>JPD N/S MT91600      | N/A                  |
| ZH008-CM<br>DEC10/20 MAII       | 50,600<br>NT PROD KL10E         | N/A                         | QT008-HZ<br>DBMS-20 F          | 1,379<br>RT TO COPY UPD       | 121                  |
| ZH008-CP<br>DEC10/20 MAII       | 50,600<br>NT PROD KL10E         |                             | QT009-AM<br>CPL-20,MT          |                               | 63                   |
| ZH009-CM<br>DEC10/20 MAII       | 50,600<br>NT PROD KL10 <i>A</i> |                             | QT009-DZ<br>CPL-20 LIC         |                               | N/A                  |
| ZH009-CP<br>DEC10/20 MAII       | 50,600<br>NT PROD KL10 <i>A</i> | N/A<br>VB                   | QT009-HM<br>CPL 20 UP          | 1,300<br>D N/S MT91600        | N/A                  |
| ZH010-CM<br>10/20 MAINT P       | 580<br>RD ZH005-9 UP            | <br>N/A<br>G                | QT009-HZ<br>CPL-20 RT          | 331<br>TO COPY UPD            | 29                   |
| ZH010-CP<br>10/20 MAINT P       | 580<br>RD ZH005-9 UP            | N/A<br>G                    |                                | 3,032<br>40-P/2050-P BPUS MT9 | 266                  |
| QT001-AM<br>FORTRAN-20,N        | 11,500<br>/IT9,1600             | 92                          | Q 101011IVI                    | 4,060<br>140-P/2050-P UPD N/S | N/A                  |
| QT001-DZ<br>FORTRAN-20 L        | 2,000<br>ICENSE ONLY            | N/A                         | QT010-HZ<br>TOPS20 20          | 1,231<br>40-P/2050-P RT CPY   | 108                  |
| QT001-HM<br>FORTRAN 20 U        | 2,200<br>JPD N/S MT9160         | N/A<br>00                   | QT012-AM<br>APL-SF-20,         |                               | 145                  |
| QT001-HZ<br>FORTRAN-20 F        | 479<br>RT TO COPY UP            | 42<br>D                     | QT012-DZ<br>APL-SF-20          | 4,000<br>LICENSE ONLY         | N/A                  |
| QT002-AM<br>ALGOL-20,MT9        |                                 | 72                          | QT012-HM<br>APL20-SF           | 4,400<br>UPD N/S MT91600      | N/A                  |
| QT002-DZ<br>ALGOL-20 LICI       | 2,000<br>ENSE ONLY              | N/A                         | QT012-HZ<br>APL20-SF           | 752<br>RT TO COPY UPD         | 66                   |
| QT002-HM<br>ALGOL 20 UPD        |                                 | N/A                         | QT014-AM<br>APL BASIO          | 11,500<br>C-20,MT9,1600       | 86                   |
| QT002-HZ<br>ALGOL-20 RT         | 376<br>TO COPY UPD              | 33                          | QT014-DZ<br>APLBASIC           | 2,000<br>-20 LICENSE ONLY     | N/A                  |
| QT004-CM<br>BASIC-20,MT9,       | 6,900<br>1600                   | N/A                         | QT014-HM<br>APL 20 BA          | 2,200<br>SIC UPD N/S MT9 1600 | N/A                  |

Operating System Software is included with the system packages. Maintenance service must be ordered separately by the "Q" number.

| Option<br>Number<br>Description        | Price (\$)               | Monthly Self-<br>Maint. Fee | Option<br>Number<br>Descript | Montl<br>Price (\$) Mair<br>ion |            |
|--|--------------------------|-----------------------------|------------------------------|---------------------------------|------------|
|  | 456<br>TO COPY UPD       | 40                          | QT029-EL<br>TOPS20 F         | 23,000<br>FRONT END SOURCES RE  | N/A<br>206 |
| QT016-AM<br>IQL-20 EXT,MT              |                          | 115                         | QT029-NK<br>TOPS20 S         | 4,400<br>SRC UPD N/S RP4        | N/A        |
| QT016-DZ<br>IQL-20 LICENS              |                          | N/A                         | QT029-NL<br>TOPS20 S         | 4,400<br>SRC UPD N/S RP6        | N/A        |
| QT016-HM<br>IQL-20 UPD N/              |                          | N/A                         |                              | 28,800<br>MONITOR SRC MT9 1600  | N/A        |
| QT016-HZ<br>IQL-20 RT TO 0             |                          | 53                          | QT030-NM<br>TOPS20 S         | 5,500<br>SRC UPD MT91600 N/S    | N/A        |
| QT018-3Z<br>TOPS20 NOTE                | 559<br>BOOK UPD. SVO     | 49<br>C                     | QT037-AM<br>TRAFFIC          | 6,900<br>-20 MT,1600            | 96         |
| QT018-KZ<br>TOPS20 NOTE                | 1,100<br>BOOK SET + SU   |                             | QT037-DZ<br>TRAFFIC          | 1,200<br>-20 LICENSE ONLY       | N/A        |
| QT021-1Z<br>TOPS20 ADD'L               | 330<br>DISPATCH SU       | 29<br>B HC                  | QT037-HM<br>TRAFFIC          | 1,650<br>20 UPD N/S MT91600     | N/A        |
| QT022-3M <sup>2</sup><br>TOPS20/2020 S |                          | 238                         | QT037-HZ<br>TRAFFIC          | 502<br>RT TO COPY UPD           | 44         |
| QT022-HM<br>TOPS20/2020 L              | 4,060<br>JPD N/S MT9160  |                             | QT038-EM<br>TOPS20 E         | 8,100<br>EXEC SOURCES MT9 1600  | N/A        |
| QT022-HZ<br>TOPS20/2020 F              | 1,231<br>RT TO COPY UP   | 108<br>D                    | QT038-NM<br>T20 EXEC         | 1,655<br>C SRC UPD MT9,1600 N/S | N/A        |
| QT023-3M <sup>2</sup><br>TOPS20 2040-S | 2,720<br>6/2060-P SMS M  |                             | QT040-EK<br>TOPS20 S         | 46,000<br>SOURCE PKG MT9 RP04   | N/A        |
| QT023-HM<br>TOPS20 2040-S              | 4,060<br>S/2060-P UPD N/ | N/A<br>S                    | QT040-EL<br>TOPS20 S         | 46,000<br>SOURCE PKG MT9 RP06   | N/A        |
| QT023-HZ<br>TOPS20 2040-S              | 1,231<br>S/2060-P RT/C P | 108<br>Y                    | QT040-NK<br>TOPS20 S         | 8,800<br>SRC PKG UPD N/S RP04   | N/A        |
| QT024-AM<br>COBOL68/74/S               | 11,500<br>STMRGE UPG FF  | N/A<br>R SRT                | QT040-NL<br>TOPS20 S         | 8,800<br>SRC PKG UPD N/S RP06   | N/A        |
| QT025-AM<br>APL20-SF UPG               | 17,300<br>FRBSC MT9 16   | N/A                         | QT042-DZ<br>TOPS20 2         | 3,450<br>2780/3780 LICENSE ONLY | N/A        |
| QT027-AM<br>BASIC PLUS2-               | 11,500<br>20,MT9,1600    | 105                         | QT042-NM<br>TOPS 20 2        | 2,620<br>27/37-SRC UPD N/S MT9  | N/A        |
| QT027-DZ<br>BASIC + 2/20 L             | 2,000<br>ICENSE ONLY     | N/A                         | QT042-NZ<br>2780/3780        | 752<br>RIGHT TO COPY UPD        | 66         |
| QT027-HM<br>BASIC + 2/20 U             | 2,330<br>JPD N/S MT9160  | N/A<br>00                   | QT042-XM<br>TOPS-202         | 8,600<br>2780/3780 V2 1600 MT9  | 145        |
| QT027-HZ<br>BASIC + 2/20 F             | 559<br>RT TO COPY UP     | 49<br>D                     | QT046-NM<br>KS10 MIC         | 640<br>CROCODE UPD MT9,1600     | N/A        |
| QT028-AM<br>BASIC + 2/20 U             | 5,200<br>JPG FR BASIC N  | N/A<br>//T9                 | QT046-YM<br>KS10 MIC         | 50,600<br>CROCODE PROD MT9,1600 | N/A        |
| QT029-EK<br>TOPS20 FRON                | 23,000<br>IT END SOURCE  | N/A<br>ES RP04              | QT047-AM<br>COBOL 6          | 3,450<br>8/74,S/M UPG FR 68 MT9 | N/A        |

<sup>&</sup>lt;sup>2</sup> Operating System Software is included with the system packages. Maintenance service must be ordered separately by the "Q" number.

| Option Mon Number Price (\$) Ma Description      | thly Self-<br>int. Fee | Option Mont Number Price (\$) Main Description             | hly Self-<br>nt. Fee |
|--|------------------------|--|----------------------|
| QT052-DZ 4,000<br>TPS20 2780/3780/HASP LIC ONLY  |                        | QT102-NL 8,800<br>TOPS20 V5 SRC PKG UPD N/S RP             |                      |
| QT052-NM 2,320<br>TOPS20 27/37 HASP UPD MT9 NS   | N/A                    | QT115-AM 13,800<br>BLISS-36 V3.0 SV 16MT9                  | N/A                  |
| QT052-NZ 673<br>2780/3780 HASP RT TO CPY UPD     | 59                     | QT115-DZ 7,600<br>BLISS-36 V3.0 LIC ONLY                   | N/A                  |
| QT052-XM 10,000<br>TOPS20 2780/3780/HASP MT91600 | 130                    | QT115-HM 1,500<br>BLISS-36 UPD N/S 16MT9                   | N/A                  |
| QT054-DZ 1,000<br>T20 27/37/HASP UPG LIC ONLY    | N/A                    | QT115-HZ 690<br>BLISS-36 V3.0 RT TO CPY UPD                | N/A                  |
| QT054-XM 2,500<br>T20 27/37/HASP UPG T20 27/37   | N/A                    | QT120-EM <sup>1</sup> 2,000<br>TOPS20 RP20 EXT MNTR SRCS M |                      |
| QT062-AM 5,000<br>RJE-20 V1.0 BIN 1600 MT9       | 64                     | QT214-AM 2,500<br>DECMAIL/MS-20 NETWORK OPTIO              |                      |
| QT062-DZ 2,000<br>RJE-20 V1.0 LICENSE ONLY       | N/A                    | QT214-DZ 1,300<br>DECMAIL/MS-20 NETWK OPT LIC              | N/A                  |
| QT062-EM 30,000<br>RJE-20 V2 SRC N/S 1600 MT9    | N/A                    | QT215-AM 15,000<br>DECMAIL/MS-20 BASE PROGRAM              |                      |
| QT062-HM 1,150<br>RJE 20 UPD N/S MT91600         | N/A                    | QT215-DZ 8,000<br>DECMAIL/MS-20 BASE LIC ONLY              | N/A                  |
| QT062-HZ 342<br>RJE-20 RT TO COPY UPD            | 30                     | QT215-HM 1,225<br>DECMAIL/MS-20 BASE PROG UPD              | N/A                  |
| QT099-AM 16,500<br>COBOL-68/74 + S/M,MT9,1600    | 125                    | QT215-HZ 580<br>DECMAIL/MS-20 RT TO COPY UPI               | 34                   |
| QT099-DZ 2,600<br>COBOL-68/74 + S/M LICENSE ONL  |                        | QT304-3M 399<br>TOPS20 AUTOPATCH OPTION 161                |                      |
| QT099-HM 2,850<br>COBOL68/74 W S/M UPD NS MT916  | N/A<br>6               | QT708-YM 2,900<br>DX/TOPS-20 WPS8-HOST UTL MTS             | N/A<br>9             |
| QT099-HZ 661<br>COBOL68/74 S/M RT TO COPY UPD    | 58<br>D                | QT850-NM 640<br>KL10 MICRO SRC T20 UPD 1600                | N/A                  |
| QT100-EM 28,800<br>TOPS20 V5 MONITOR SRC MT9     | N/A                    | QT850-YM 50,600<br>KL10 MICRO SRC T20 N/S 1600             | N/A                  |
| QT100-NM 5,500<br>TOPS20 V5 SOURCE UPD MT9 N/S   | N/A                    | QTD01-AM 8,600<br>DECNET20 V2 BIN MT9,1600                 | 96                   |
| QT101-EM 8,100<br>TOPS20 V5 EXEC SOURCES MT9     | N/A                    | QTD01-DZ 2,500<br>DECNET20 V2 LICENSE ONLY                 | N/A                  |
| QT101-NM 1,655<br>TOPS20 V5 EXEC SRC UPD N/S MT  | N/A<br>19              | QTD01-HM 1,750<br>DECNET 20 UPD N/S MT91600                | N/A                  |
| QT102-EK 46,000<br>TOPS20 V5 SOURCE PKG MT9 RP0  |                        | QTD01-HZ 502<br>DECNET20 RT TO COPY UPD                    | 44                   |
| QT102-EL 46,000<br>TOPS20 V5 SOURCE PKG MT9 RP0  |                        | QTD04-AM 8,600<br>DECNET-20 V3 BIN SV 16MT9                | 96                   |
| QT102-NK 8,800<br>TOPS20 V5 SRC PKG UPD N/S RP0  |                        | QTD04-DZ 2,500<br>DECNET-20 V3 LIC ONLY                    | 44                   |

<sup>&</sup>lt;sup>1</sup> Requires source license for QT030 or QT040.

| Option<br>Number<br>Descrip | Price (\$)                   | Monthly Self-<br>Maint. Fee | Option<br>Number<br>Descrip | Price (\$)<br>otion | Monthly Self-<br>Maint. Fee |
|-----------------------------|------------------------------|-----------------------------|-----------------------------|---------------------|-----------------------------|
| QTD04-EM                    | 30,000                       | N/A                         | QTD20-HM                    | 1,750               | N/A                         |
| DECNET                      | -20 V3 SRC N/S 16MT9         | 9                           | DECNET                      | F 20/2020 UPD NS    | MT91600                     |
| QTD04-HM                    | 1,750                        | 96                          | QTD20-HZ                    | 502                 | 44                          |
| DECNET                      | -20 UPD NS 16 MT9            |                             | DECNET                      | F20/2020 RT TO CO   | OPY                         |
| QTD04-HZ                    | 502                          | 96                          | ZT001-NM                    | 120                 | N/A                         |
| DECNET-                     | -20 UPD LIC ONLY             |                             | 2020 DIA                    | AG UPDATE TAPE      | MT91600                     |
| QTD20-AM                    | 8,600                        | 96                          | ZT001-YM                    | 25,300              | N/A                         |
| DECNET:                     | 20/2020 V2 BIN MT9 10        |                             | 2020 DIA                    | AGNOSTICS,MT9,      | 1600                        |
| QTD20-DZ<br>DECNET          | 2,500<br>20/2020 LICENSE ONL | N/A                         |                             |                     |                             |

#### **QUANTITY DISCOUNTS**

#### **MEMORY**

| MS10-BA  |         |
|----------|---------|
| Quantity | Total   |
| 1        | \$6,000 |
| 2        | 11,500  |
| 3        | 16,000  |
| 4        | 19,000  |

#### **NOTE**

Pricing of memory modules cannot be discounted under the Quantity Discount Agreement, but may be included in aggregate levels. Discounts apply to single purchase order only. Delivery of all units on an order must be within twelve months ARO.

| TRA  | DE-        | IN | AM | Ol         | JN | TS |
|------|------------|----|----|------------|----|----|
| 0011 | <b>n</b> - |    |    | <b>A</b> - |    |    |

| or or ackage Amounts   |          |
|------------------------|----------|
| KA10 to 1090-V Package | \$25,000 |
| KL10 to 1090-V Package | 50,000   |

#### DECSYSTEM-2040/2050/2060

| Each 32K word MA20;MA20A,MA20E | \$1,000 |
|--------------------------------|---------|
| Each 64K word MA20;MB20A,MB20E | 2,000   |

#### **Peripheral Amounts**

| DF10-A | \$5,000 |
|--------|---------|
| DF10-C | 6,000   |
| DL10   | 5,800   |
| RH10   | 10,000  |

These allowances may be applied only towards purchase of like DECsystem-10 based equipment on a one-for-one basis (i.e., channel, on disk for one disk, etc.).

#### **DECSYSTEM-2020 TRADE-IN AMOUNT**

| 2020 Central Processor, First 256K words Memory,<br>Communications Lines, Magnetic Tape Interface,<br>Disk Interfaces, and Console | \$44,000 |
|--|----------|
| Exchange RM03 for RP06   | \$9,000  |
| 64K words Add-on Memory  | 3,000    |
| 128K words Add-on Memory   | 5,750    |
| 256K words Add-on Memory   | 9,500    |

### DC20-xx COMMUNICATIONS HARDWARE PRICES FOR 1091, 2040, 2060

(Price configured for reference)

| No. of<br>Asynch.<br>Lines | Purchase<br>Price<br>(\$) | 5-Day<br>DECservice<br>Maintenance<br>Price per Month<br>12 Hour |
|----------------------------|---------------------------|--|
| 16*                        | N/C                       | N/C  |
| 24                         | 6,160                     | 104  |
| 32                         | 8,030                     | 194  |
| 40                         | 23,595                    | 416  |
| 48                         | 25,465                    | 506  |
| 56                         | 31,625                    | 610  |
| 64                         | 33,495                    | 700  |
| 72                         | 39,655                    | 804  |
| 80                         | 41,525                    | 894  |
| 88                         | 47,685                    | 998  |
| 96                         | 49,555                    | 1,088  |
| 104                        | 62,535                    | 1,310  |
| 112                        | 64,405                    | 1,400  |
| 120                        | 70,565                    | 1,504  |
| 128                        | 72,435                    | 1,594  |
|                            |                           |  |

<sup>\*</sup> Included in 1091, 2040, and 2060 basic packages.

### **Notes**

## **Notes**