





16 December

19 Key Walker

22 January letter

30 January installation & wiring order

28-29 February

AGREEMENT TO PURCHASE A DECSYSTEM-10

# AGREEMENT TO PURCHASE A DECSYSTEM-10

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AGREEMENT TO PURCHASE A DECSYSTEM-10

AGREEMENT

for the

PURCHASE OF A DECSYSTEM-10 COMPUTER SYSTEM

Agreement made this TWENTY EIGHTH day of JULY 1977

between Digital Equipment Australia Pty.Ltd.  
(hereinafter referred to as DIGITAL) and  
University of Queensland  
(hereinafter referred to as the UNIVERSITY)

DIGITAL agrees to sell and the UNIVERSITY agrees to buy for the Prentice Computer Centre, the DECSYSTEM-10 Computer equipment, licence to the DECSYSTEM-10 software and associated services and components described in this contract, Schedule A (hereinafter referred to as the System) and Schedule B, C and D, in accordance with the terms and conditions contained herein.

AGREEMENT TO PURCHASE A DECSYSTEM-10  
CONTRACT SECTIONS

1. PRICE

- 1.1 The prices for the products, the subject of this contract, shall be as specified in Schedules A, B, C and D and are expressed in Australian dollars. ✓
- 1.2 Prices are for the supply, delivery and installation of the equipment and associated software at the Prentice Computer Centre, University of Queensland. The prices specifically exclude all customs import duties, sales tax or any Federal, State Municipal or other government taxes or the like. Such items, if applicable, shall be invoiced separately. ✓
- 1.3 If a certificate of exemption or similar document or proceeding is to be made in order to exempt the products from import duty or the sale from sales tax or similar liability, the UNIVERSITY will obtain and pursue such certificate, document or proceeding. ✓
- 1.4 The prices will be subject to adjustment if the exchange rate of United States dollar to Australian dollar at the Date of Delivery varies by more than 2% from the quoted rate of \$1.08. The quoted Gross Total will be adjusted according to the following formula:-
- Adjusted Gross = Quoted Gross X  $(0.3 + 0.7 C / F)$
- C = Australian Bank U.S. \$ T.T. Selling Rate quoted as \$1.08.
- F = Australian Bank U.S. \$ T.T. Selling Rate at Delivery. X
- Quoted Gross = The sum of Gross Totals in Schedules A, B, C and D.
- If Date of Delivery is delayed beyond the end of 1977 due to reasons imputable to DIGITAL, the UNIVERSITY has the option to substitute the rate at the last banking day in 1977 for F.
- 1.5 In no event shall the UNIVERSITY be required to pay any price greater than the amount it would have been required to pay if the system had been delivered in accordance with the contract.



AGREEMENT TO PURCHASE A DECSYSTEM-10  
CONTRACT SECTIONS

2. PREPARATION OF THE SITE

- 2.1 During July, 1977 DIGITAL shall propose to the UNIVERSITY in writing a plan for the preparation of the installation site. The UNIVERSITY shall ready the site prior to the end of November, 1977 in accordance with the agreement reached between the parties on the basis of the proposed plan. The UNIVERSITY will issue a Site Readiness Advice to DIGITAL that the site is ready for installation. In the event of the site not being ready by the end of November 1977, the dates by which any action is required to be taken by DIGITAL shall be extended by a period equal to the period between 30th November 1977 and the date the site is ready. The UNIVERSITY will advise DIGITAL at intervals of not greater than one month of progress on the installation site. ✓

3. DELIVERY

- 3.1 Delivery of all items the subject of this contract will be made to the Prentice Computer Centre, University of Queensland, St Lucia, Qld 4067. Delivery will not have been effected unless all items required for the conduct of Acceptance Tests have been delivered. *Items delivered on site for.* X

- 3.2 Delivery Date for the products in Schedules A, B, C and D shall be the date upon which the products are Delivered to the Prentice Computer Centre or as provided in Clause 3.6. *Delivery not complete* X

- 3.3 In case of delay in Delivery beyond 23 December 1977 imputable to DIGITAL or the Manufacturers of any Products, DIGITAL shall owe the UNIVERSITY liquidated damage of 0.5% per full week of delay up to a maximum of 5% of the purchase price of the delayed items or, if they are essential for the conduct of the Acceptance Tests, of the System. X

This amount due hereunder will be deducted from the UNIVERSITY'S last payment and is in lieu of any other claims resulting from the delay.

- 3.4 Notwithstanding the above and in lieu of the liquidated damage, the UNIVERSITY is entitled to rescind the agreement and take recourse to the remedies provided by Law if a delay in delivery imputable to DIGITAL extends beyond 17th March 1978. ✓

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3.5 It is expressly understood that DIGITAL is not responsible for the issue of US export or Australian import licenses and does not assume any responsibility by the fact that DIGITAL will assist the UNIVERSITY in obtaining these licenses. ✓

3.6 If for reasons imputable to the UNIVERSITY DIGITAL is unable to effect Delivery to the Prentice Computer Centre subsequent to the 30th November 1977, DIGITAL will warehouse the equipment at a site nominated by the UNIVERSITY and acceptable to DIGITAL at the UNIVERSITY'S cost including warehousing and additional freight and handling charges. The Delivery Date will then be the first day of such storage. ✓

4. INSTALLATION

4.1 DIGITAL shall furnish all labour required for unpacking and placing the equipment in the desired location and this work will be performed under DIGITAL's supervision and responsibility. The UNIVERSITY however will use its best endeavours to assist DIGITAL in unpacking the equipment and placing it in the desired locations provided that the UNIVERSITY accepts no risk or responsibility in so doing. ✓

4.2 DIGITAL shall place the System in good working order. Notification to the UNIVERSITY that this is done marks the termination of installation. ✕

5. ACCEPTANCE

5.1 GENERAL

The System will be subject to Acceptance Tests which are intended to satisfy the UNIVERSITY that:-

(a) The System as delivered and installed is in good working order and conforms substantially with the specifications in DIGITAL's Option Bulletins listed in Schedule H.

(b) The System operates in a reliable manner;



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- (c) The Software supplied operates as described in the appropriate Software Product Descriptions listed in Schedule H, and
- (d) The documentation supplied with the system is in accordance with the requirements of the contract.

The acceptance tests shall comprise:-

- (i) Inspection of equipment and documentation;
- (ii) Acceptance tests of system hardware; and
- (iii) System and Standard Software reliability tests.

5.2 HARDWARE ACCEPTANCE

Acceptance tests of the System's Hardware are designed principally to test the individual components of the System and comprise the series of tests set out in Schedules E and G.

For this purpose the Manufacturer provides Diagnostic Programs (as listed in Schedules E and G) and the parties agree that these are adequate and sufficient.

DIGITAL's demonstration of each test to the UNIVERSITY is intended to prove that the Hardware is in good working condition and free of defects. The UNIVERSITY shall sign an Acceptance Form, the pro-forma of which is included in Schedule E, for each demonstration in respect of which the UNIVERSITY's Representative is satisfied.

Successful completion of the last series of tests shall constitute Hardware Acceptance.

5.3 SYSTEM ACCEPTANCE

The System Acceptance Test is designed to test the reliability of the System's operation and its Standard Software as listed in Schedule A and consists of a period of continuous operation using the programs defined in Schedule F.

Upon successful demonstration of this test under the conditions also defined in Schedule F the System as a whole will be accepted and the UNIVERSITY shall issue a System Acceptance Certificate.

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5.4 ACCEPTANCE CERTIFICATE

The UNIVERSITY may issue an Acceptance Certificate for the whole System which shall constitute Whole Acceptance, or for parts of the System which shall constitute Partial Acceptance, or the UNIVERSITY may issue Acceptance Certificates subject to stipulated conditions or reservations. With respect to other provisions herein these Certificates have the full effect of the System Acceptance Certificate.

The UNIVERSITY may not withhold Acceptance unnecessarily or withhold Partial Acceptance solely because some products have not been delivered and which are not necessary for the successful running of all Acceptance Tests.

If whole or Partial Acceptance is not achieved prior to June 1 1978 due to reasons imputable to DIGITAL, the parties shall negotiate further proceedings. If no agreement is reached the UNIVERSITY may rescind this agreement, and require DIGITAL to remove all items subject to this contract within a reasonable period and take recourse to the remedies provided by law, or exercise any right which may have accrued to the UNIVERSITY under this agreement or otherwise.

5.5 PROCEDURE

(a) Representatives:

During the conduct of these Tests and for this purpose, DIGITAL shall be represented by its Queensland Manager and the UNIVERSITY by the Director of the Prentice Computer Centre or their respective nominees appointed in writing.

(b) DIGITAL's Responsibilities

DIGITAL's representative shall:

- be responsible for the System and all other products delivered and control their use and operation until System Acceptance;
- supervise the tests and be entitled to delegate his responsibility temporarily;
- prepare and ensure the accuracy of all input data used in any Tests submitted by DIGITAL;



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- verify that the log maintained by the UNIVERSITY's representative during the conduct of the tests represent an accurate record of events.

DIGITAL shall supply the diskpacks and magnetic tapes for the operation until the System's Acceptance and during the hardware tests shall supply also all consumable items (eg. line printer paper, punched cards etc.) required for the conduct of the Tests.

(c) UNIVERSITY's Responsibilities

The UNIVERSITY's representative shall:

- ensure before the commencement of the Tests that all items of hardware, software and documentation as are specified herein, or such lesser quantity as he may determine, have been delivered;
- provide all facilities, communication media, access to the equipment etc. required for proper conduction of the Tests;
- keep a log of the progress of all Tests in the manner described in Schedules E and F.

(d) Structure of the Tests:

The Tests commence immediately following installation (as notified according to Section 4.2).

Both Hardware Tests and System Tests will be preceded by a sample trial run intended to familiarise both parties with the procedures and records. Those runs will not exceed two days' duration each. System faults encountered during this period will not be counted as part of the Tests.

(e) Environmental Conditions

During the course of acceptance tests, the UNIVERSITY's representative may vary the environmental conditions within the limits specified in DIGITAL's Option Bulletins contained in the Tender.

If during a test, abnormal conditions arise which are outside DIGITAL's control, and which would in the opinion of the UNIVERSITY's Representative, invalidate the results of the test, the UNIVERSITY's

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Representative may suspend the tests until normal conditions are restored. The test which was in progress at the time of suspension shall be disregarded and restarted.

(f) Arbitration

Any dispute arising out of the conduct or results of the Acceptance Tests or the interpretation of this Section 5 and which cannot be settled amicably between the parties will be referred to an independent mediator on whom the parties agree, or in default of agreement appointed by the President of the Australian Computer Society. The mediator shall not be an arbitrator and neither party shall be bound to accept his decision or advice.

6. PAYMENT TERMS

6.1 Within 20 days of Delivery as defined in Section 3, the UNIVERSITY shall pay an amount of \$150,000 as part payment of the Purchase Price. This amount shall be repayable by DIGITAL to the UNIVERSITY in the event that the UNIVERSITY rescinds the contract according to the terms of Section 5.4

6.2 Payment of the residual amount for accepted products is due within 20 days of System Acceptance.  
In case the Acceptance Certificate is not signed 60 days after Delivery of the System, or by 28th February 1978, whichever is the later, and this being due to reasons imputable to the UNIVERSITY, payment for the residual products is due within 20 days of such date.

In case of Partial Acceptance (Section 5.4 Para. 1) the UNIVERSITY is entitled to withhold payment of a reasonable amount until full acceptance of all products. The amount will be up to 10% of the System's price or the price of the non-accepted products' price which ever is the greater.

6.3 The UNIVERSITY agrees to pay interest at the rate of interest charged per month at the time to DIGITAL by its bankers on overdraft account on the amount of any overdue payment from the day following the due date until the date payment is made.



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- 6.4 Title to the equipment and the right to use it and/or the Software pass to the UNIVERSITY upon payment in full for the accepted products.
- 6.5 DIGITAL carries the risk of loss or damage for items in Schedules A, C and D until System Acceptance and for items in Schedule B until Hardware Acceptance with the exception that deliberate physical damage to the equipment not imputable to DIGITAL on the UNIVERSITY premises will be the UNIVERSITY's responsibility.
- 6.6 The purchase price for the products in Schedule B is due within 20 days of Hardware acceptance of those products. Hardware acceptance procedures for the products in Schedule B are contained in Schedule G.

7. WARRANTY

- 7.1 All equipment in Schedule A is warranted for a period of 90 days from the date of Acceptance.

In case Acceptance is delayed due to reasons imputable to the UNIVERSITY the warranty period starts not later than 60 days after the date of notification that the System has been installed in good working order as provided in Section 4.2

The warranty for repaired or replaced parts ends with the warranty period of the System, provided that replacement parts meet the requirements of the Hardware Acceptance tests as provided in Schedule E.

The UNIVERSITY will ship defective parts prepaid against a DIGITAL return authorisation number with System serial number and a report of the defect observed to the Product Repair Centre, 40 Albany Street, Crows Nest, Sydney, N.S.W. DIGITAL pays return charges.

If the parts prove not to be defective within the terms of the warranty, the UNIVERSITY shall pay all costs of handling, transportation and repairs.

The spare parts listed in Schedule C are warranted for a period of 90 days following System Acceptance.

The products listed in Schedule B are warranted for a period of 90 days following Hardware Acceptance tests which will be conducted concurrently with the System Hardware tests in

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Schedule E and are as detailed in Schedule G.

DIGITAL's sole responsibility under these warranties shall be, at its option, to repair or replace any subassembly part which fails during the period of warranty due to a defect in workmanship and material.

- 7.2 Software with DIGITAL Support Category of A or B is warranted to conform to the DIGITAL Software Product Description (SPD) applicable at the time of order. DIGITAL's sole obligation hereunder shall be to remedy any nonconformance of the Software to the SPD. Such remedy shall be provided as specified in the Software Support Categories Addendum to the SPD for non-conformances reported to DIGITAL during the one (1) year period following delivery. Software with a designated Support Category of C is furnished on an "as is" basis.

*Date of delivery of software 17.2.78.*

8. SOFTWARE PRODUCT LICENCE

- 8.1 Licenced software including related documentation, provided hereunder is furnished to the UNIVERSITY under a non-transferable and non-exclusive licence for use on the system and may only be copied, in whole or in part, with inclusion of the DIGITAL copyright notice for use on this CPU. The UNIVERSITY shall use its best endeavours not to provide or otherwise make available the software or any part of copies thereof to any third party. Title to and ownership of the Software shall at all times remain with DIGITAL. DIGITAL shall have the right to terminate the licence if the UNIVERSITY fails to comply with these licence terms and the UNIVERSITY agrees, upon notice of such termination to immediately return the Software and all portions and copies thereof.

- 8.2 Binary and Source codes are provided under the Licence Agreements in Schedule I to this contract.

9. COPYRIGHT

Any System drawings and documentation provided to the UNIVERSITY hereunder are furnished only for the UNIVERSITY's own internal use within the Prentice Computer Centre. The UNIVERSITY shall have the right to make copies of such



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System drawings or documentation to satisfy the Prentice Computer Centre's internal requirements provided that the UNIVERSITY includes DIGITAL's copyright notice on each such copy. No other copies or use of the System drawings or documentation or any portion thereof, shall be made with the authority of the UNIVERSITY without the prior written approval of DIGITAL.

10. PATENTS AND COPYRIGHT PROTECTION

10.1 If notified in writing of any action (and all prior claims related) brought against the UNIVERSITY claiming that its use of DIGITAL's product infringes an Australian patent or copyright DIGITAL will defend such action at its expense and will pay the costs and damages awarded in such action provided DIGITAL shall have the sole control of the defence and all negotiations for settlement and shall indemnify the UNIVERSITY on such terms and on such conditions as may be agreed between the parties or in default of agreement as Messrs Chambers McNab & Co., Solicitors, Brisbane may determine against all costs, damages, expenses or other monies the UNIVERSITY may become liable for in taking such action.

In the event that an injunction shall be obtained against the UNIVERSITY's use of the product by reason of such infringement, DIGITAL will, at its option and at its expense, either procure the right to continue using the product, or replace or modify the same so that it becomes non-infringing, or - if the above is not reasonably feasible - pay to the UNIVERSITY forthwith a sum equal to the actual purchase price of the product against its return.

10.2 DIGITAL shall not be liable if the alleged infringement is based upon use of the product in combination with products not sold by DIGITAL.

The forgoing states the entire liability of DIGITAL for patent or copyright infringement by the product purchased.

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11. SPARE PARTS

- 11.1 DIGITAL warrants that the set of spare parts defined in Schedule C includes all special tools required for the normal regular maintenance of the System and the spares which to DIGITAL's best knowledge are likely to be needed in the normal course of operation.
- 11.2 DIGITAL will provide the UNIVERSITY with further spare parts subject to availability and under its standard term and conditions applicable at the time.
- 11.3 DIGITAL will use its best endeavours to help the UNIVERSITY to benefit from its Express Spare Parts Service upon the UNIVERSITY's request and against payment of the applicable extra charge, however, only in priority after DIGITAL's own needs and conditioned upon the UNIVERSITY replenishing its spare parts kit in a timely manner.

12. ENGINEERING DOCUMENTS AND DIAGNOSTIC PROGRAMS

- 12.1 DIGITAL shall supply at the time of Delivery all documentation (including engineering drawings, wire and cable listings with signal names, parts breakdown and descriptive theory of operation) and diagnostic programs and procedures for preventive and remedial maintenance including Preventive Maintenance Schedules and one microfiche reader.
- All documentation shall be at the revision level of each unit supplied.
- 12.2 Further, DIGITAL shall supply all periodic revisions and amendments to documentation and diagnostics, engineering and field changes, parts documentation, "DEC-O-Log", maintenance manuals and schedules of prices of spares.
- 12.3 Subscription fees and handling charges or like for the above will not rise faster in comparison to the first subscription year than justified by inflation in Australia or the USA and the increase in costs of production and administration of these products and services.

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12.4 DIGITAL warrant to provide training for the UNIVERSITY's maintenance engineers in the USA prior to the commencement of Hardware acceptance of the System.

12.5 DIGITAL warrants that following Acceptance, DIGITAL will make available a maintenance advice service on a per-call basis , as required by the UNIVERSITY.

13. SPECIAL SOFTWARE

DIGITAL will make available to the UNIVERSITY as soon as is practicable after the signing of this contract the following software items:-

- (1) All PDP-11 Operating Systems and associated software included in Schedule D.
- (2) DN87S Source code,
- (3) DAS80 Source code.

14. SOFTWARE MAINTENANCE SERVICE

DIGITAL will continue to offer the UNIVERSITY the Customer Software Maintenance Service with its usual options and at the normal price applicable. Only one subscription to a nominated option for software in Schedule A is required to cover both the KA10 System and the KL10 System.

15. TOPS-20 MIGRATION

DIGITAL warrants that the maximum cost of migration from the TOPS-10 to the TOPS-20 Operating System will be \$75,000. This amount will cover all required changes to the 1090 Central Processor, exchange of card reader and line printer interfaces if necessary, operating System license and binaries and sources for the software as listed in Schedule A.

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16. SPECIFICATIONS

DIGITAL reserves the right to make substitutions and modifications to the specifications of the equipment and software included in the System providing that such substitutions or modifications will not adversely affect the performance or the life of the System.

If the UNIVERSITY modifies the equipment or software included in the System or attaches non-DIGITAL manufactured equipment or software to the System, the System may be adversely affected and DIGITAL assumes no responsibility that the System will perform according to DIGITAL specifications.

17. TRADE-IN

17.1 As an integral part of this purchase agreement the UNIVERSITY agrees to sell to DIGITAL and DIGITAL agrees to buy from the UNIVERSITY the following parts of its present computer system for the stated amounts:

1 X KA10, serial number 17, 3 X MA10	\$120,000
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1 X DF10, serial number 4,	\$ 7,080
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The equipment is understood to be in good operating condition and is complete with associated manuals, drawings and cables and is sold as is.

17.2 Three months after Acceptance, DIGITAL shall:

- (i) take possession of this equipment;
- (ii) assume the risk of loss or damage;
- (iii) remove it from the UNIVERSITY's premises at no cost to the UNIVERSITY.

17.3 Payment is due at the time of change of possession, and title passes to DIGITAL upon payment in full. However, if required by the UNIVERSITY, DIGITAL will offset these amounts against the purchase price in Schedule A provided that the UNIVERSITY pays interest at the rate of interest charged per month at the time to DIGITAL by its bankers on overdraft account on the amount stated in 17.1 herein for the period commencing at the date of payment for the



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Accepted System and concluding three months after the Date of Acceptance.

18. MISCELLANEOUS

18.1 The proper law of this agreement shall be the law of Queensland for the time being in force. All questions arising out of or in connection with the agreement shall be determined according to laws of Queensland in force from time to time and the parties hereto submit to the jurisdiction of the Courts of Queensland.

18.2 This Agreement is not assignable.

In the event either party shall on any occasion fail to perform any terms of this contract and the other party shall not enforce that term, the failure to enforce on that occasion shall not prevent any enforcement on any other occasion.

18.3 Deviations from or modifications to these terms and conditions are not valid unless signed by authorised representatives of both parties.

18.4 In any case in which rights, duties or obligations of the parties to this agreement depend in whole or in part on the existence of or a reason for delay fault or other matter the onus of establishing all relevant facts shall be upon the party relying upon that existence or reason.

18.5 This contract is subject in all respects to Statute No. 46 of the Statutes of the UNIVERSITY and no right conferred hereunder shall be deemed to confer upon any person any right or authority to do any act which would constitute a breach of that Statute or to deprive the UNIVERSITY of any power to take action to enforce that Statute against any person.

18.6 In no event will DIGITAL be liable for indirect or consequential damage; on any of these events DIGITAL's liability is limited strictly to the indemnities and warranties hereof.

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19. NOTICES

All notices given by either party to the other under this agreement shall be in writing addressed to:-

General Manager  
Digital Equipment Australia Pty.ltd.,  
50 Water Street,  
SPRING HILL. QLD. 4000

and address to the UNIVERSITY:

The Registrar,  
University of Queensland,  
ST.LUCIA. QLD. 4067

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IN WITNESS WHEREOF, the parties set their hands, the date first above mentioned.

THE UNIVERSITY OF QUEENSLAND :

BY \_\_\_\_\_

TITLE

THE REGISTRAR

DATE \_\_\_\_\_

DIGITAL EQUIPMENT AUSTRALIA PTY. LTD.

BY \_\_\_\_\_

TITLE

GENERAL MANAGER

DATE \_\_\_\_\_

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE A

SYSTEM		\$
(1)	1090-HB 1090 System, RTP06-B, 256KWord, DN87S, 16 Async Lines, LA36-C	731,600
(1)	MH10-L 256KWord Memory	153,400
(3)	DN81-ED 3 x 16 Async lines	24,143
(8)	DN81-FC 8 x 8 EIA Signal lines	21,146
(1)	TTU45-EX Magtape, Massbus Control	31,150
(1)	TU45A-EF Second magtape drive	16,520
(1)	LP100-BB Charaband printer with LP07-YC	76,700
(1)	RTP06-AB Massbus control and drive	55,633
(1)	RPO6-AB Additional drive	38,000
(3)	RP-06-P Disk Packs	3,015
(1)	DF10-CB Data channel	25,960
(1)	CR10 Interface only, incl. BA10	<u>5,000</u>
	GROSS TOTAL	1,182,267
	Trade-in KA10, 3 x MA10, DF10	127,080
	Special discount	<u>100,000</u>
	NET TOTAL	<u>\$955,187</u>

These prices are based on the exchange rate of A\$1.00 = US\$1.08.

These prices include all associated cables, connectors and the like to allow the proper installation operation of the equipment.



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SCHEDULES SECTION

SCHEDULE A (cont.)

Items to be supplied at no charge:-

STANDARD SOFTWARE:

Monitor Package TOPS-10 Operating System  
Virtual Memory (VMSE)  
LINK-10 loader with overlays  
Assembler, Editor and  
Utilities as described in Software  
Product Description SPD7.1.5 (May 1977).

DN87 Software

FORTRAN-10

ALCOL-10

BASIC-10

COBOL-10

GALAXY-10

SORT-10

FORTRAN-40

TRAINING:

13 training credits to be used in DEC Training Courses to cover  
programming, administration and operating.

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SCHEDULES SECTION

SCHEDULE B

ADDITIONAL HARDWARE ITEMS		\$
(6)	DMC11-AR Microprocessor	10,770
(6)	DMC11-DA Sync. line unit	6,030
(1)	DD11-D Mounting Unit	<u>780</u>
GROSS TOTAL		<u>\$ 17,580</u>

These prices are based on the exchange rate of A\$1.00 = US\$1.08.

A

PS-59-50      DATE : 06-23-77      CUSTOMER : UNIVERSITY OF QUEENSLAND      QUOTE # : 172711      TYPE : S  
COUNTRY : UNITED STATES      CURRENCY : DOLLARS

SORTED BY: CONFIGURATION

ITEM NUMBER	QTY	DEC PART NUMBER	DESCRIPTION	UNIT PRICE	EXTD PRICE	OPTION	LEAD TIME
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1	1	00861-B	POWER CONTROL			KL10-BB	99
2	1	08124-00	INVERTER			DF10	03
3	1	08130-00	3 PARITY CIRCUIT			DF10	A
4	1	08133-00	DIODE GATE			DF10	A
5	1	08134-00	DIODE GATE			DF10	A
6	1	08135-00	DIODE GATE			DF10	A
7	1	08163-00	DIODE GATE			DF10	A
8	1	08165-00	DIODE INVERTER			DF10	A
9	1	08167-00	ADDER GATE			DF10	03
10	1	08214-00	FOUR FLIP FLOPS			DF10	A
11	1	08311-00	DELAY LINE			DF10	02
12	1	08611-00	PULSE AMPLIFIER			DF10	A
13	1	08683-00	5 OHM OR BUS DRIVER			DF10	A
14	1	08685-00	DIODE GATE DRIVER			DF10	A
15	1	0G114-00	16K SENSE/INHIBIT G112 W			KL10-BB	A
16	1	0G255-00	16K X-Y DRIVE			KL10-BB	A
17	1	0G704-00	2 MA LEVEL TERMINATOR			DF10	03
18	1	0G742-00	CARD, POSITIVE LOGIC JUMP			KL10-BB	A
19	1	0G847-00	MOTOR POWER CONTROL			KL10-BB	A
20	1	0G848-00	MOTOR CONTROL			KL10-BB	A
21	1	0G851-00	RELAY			KL10-BB	A
22	1	0G859-00	CLOCK & REGULATOR			KL10-BB	A
23	1	0H217-C	MEMORY STACK			KL10-BB	04
24	1	0H732-00	POWER SUPPLY			KL10-BB	A
25	1	0H742-B	PS CHASSIS 11/45 230 VAC			H742-B	A
26	1	0H744-00	POWER REGULATOR			H742-B MHD	07
27	1	0H745-00	POWER REGULATOR			KL10-BB	03
28	1	0H754-00	+ 20 VOLT REGULATOR			H742-B	07
29	1	0H758-B	POWER SUPPLY DH11-AC			KL10-BB MHD	03
30	1	0H770-00	+15V 10A REGULATOR FOR H7			KL10-BB	02
31	1	0H11-A	MAINTENANCE MODULE			KL10-BB	99
32	1	0H040-00	H040 E			KL10-BB	99
33	1	0H050-00	INDICATOR AND RELAY DRIVE			KL10-BB	99
34	1	0H105-00	ADDRESS SELECTOR			DM11-BB	A
35	1	0H111-00	INVERTER			KL10-BB	99
36	1	0H112-00	NOR GATE			KL10-BB	99
37	1	0H113-00	10-2 INPUT NAND GATE			KL10-BB	99
38	1	0H115-00	INPUT NAND GATE			KL10-BB	99

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AGREEMENT TO PURCHASE DECSYSTEM-10  
SCHEDULES SECTION  
SCHEDULE C  
SPARES AND TOOLS

FS-59-50      DATE : 06-23-77      CUSTOMER : UNIVERSITY OF QUEENSLAND      QUOTE # : 172711      TYPE : S  
 COUNTRY : UNITED STATES      CURRENCY : DOLLARS

ITEM NUMBER	QTY	DEC PART NUMBER	DESCRIPTION	UNIT PRICE	EXTD PRICE	OPTION	LEAD TIME
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39	1	0M117-00	INPUT NAND GATE			KL10-BB	99
40	1	0M119-00	3-8 INPUT HAND GATE			KL10-BB	99
41	1	0M121-00	GATES			KL10-BB	99
42	1	0M127-00	2-2-2-3-ANDINOR GATE			KL10-BB	02
43	1	0M141-00	2 2 2 2 AND NOR GATES			KL10-BB	99
44	1	0M149-00	OPEN COLLECTOR BUS DRIVER			KL10-BB	A
45	1	0M161-00	BINARY TO OCTAL DECODER			KL10-BB	99
46	1	0M202-00	TRIPLE JK FLIP FLOP			KL10-BB	99
47	1	0M203-00	SET-RESET FLIP FLOP			KL10-BB	99
48	1	0M205-00	50 FLIP FLOP			KL10-BB	99
49	1	0M206-00	SIX FLIP FLOPS			KL10-BB	99
50	1	0M208-00	BUFFER SHIFT REGISTER			KL10-BB	99
51	1	0M228-00	MARK TRACK DECODER			KL10-BB	A
52	1	0M239-00	REGISTER, THREE 4-BIT COU			KL10-BB	A
53	1	0M302-00	ONE SHOT DELAY			KL10-BB	99
54	1	0M307-00	2 INTEGRATING ONE SHOT			KL10-BB	A
55	1	0M502-00	NEGATIVE INPUT CONVERTER			KL10-BB	99
56	1	0M594-00	CONVERTER, EIA LEVEL			DM11-DC	A
57	1	0M787-00	50-08774-8			KL10-BB	A
58	1	0M786-00	UNIBUS MASTER CONTROL			DM11-AC	A
59	1	0M873-YD	BOOT STRAP LOADER			KL10-BB	09
60	1	0M920-00	INTERNAL BUSS CONNECTOR			DM11-AC	99
61	1	0M941-00	JUMPER EXTENDER BOARD			KL10-BB	A
62	1	0M971-00	CABLE INTERFACE BU #2			DM11-AC	99
63	1	0M974-00	DM11 MAINTENANCE JUMPER			DM11-AC	03
64	1	0M981-00	INTERNAL BUS JUMPER			KL10-BB	99
65	1	0S202-00	FLIP FLOP			DF10	07
66	1	0S603-00	PULSE AMPLIFIER			DF10	02
67	1	0M102-00	PULSED BUS TRANSCEIVER			DF10	A
68	1	0M516-00	3 PHASE LOW VOLTAGE DETEC			KL10-BB	07
69	1	BC05J-06	LINE CORD SET 230 V 6 FT			TM02-FF	99
70	1	BC06R-10	CABLE I/O 10FT TM02			TM02-FF	99
71	1	BC06R-12	CABLE I/O 12FT (MJ11)			KL10-BB	09
72	1	BC08S-15	3M SHIELD ST CON15FT			DM11-AC	09
73	1	BC11A-02	CABLE ASSY PDP-11 M919-M9			KL10-BB	99
74	1	BC11A-17	CABLE			KL10-BB	09
75	1	BC20C-0K	CABLE CONN ASSY 11 INCH			KL10-BB	09
76	1	BC20C-6C	CABLE CONN ASSY 6FT-3INCH			KL10-BB	09
77	1	G7360-00	G736/2 SOCKETS			DM11-AC	99
78	1	G8010-00	-5.2V CONTROL KL10			KL10-BB	A



FS-59-50

DATE : 06-23-77

COUNTRY : UNITED STATES

CUSTOMER : UNIVERSITY OF QUEENSLAND

QUOTE # : 172711

TYPE : S

CURRENCY : DOLLARS

SORTED BY: CONFIGURATION

ITEM NUMBER	QTY	DEC PART NUMBER	DESCRIPTION	UNIT PRICE	EXYD PRICE	OPTION	LEAD TIME
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79	1	G8011-00	-2V CONTROL KL10				
80	1	G8013-00	+10V REFERENCE KL10				
81	1	G8014-00	- .2V DETECTOR 1 INP&TS				
82	1	G8015-00	POWER CTRL LOGIC KL10				
83	1	G8017-00	863 INDICATOR DRIVER				

84	1	M4540-00	M454 W MORE FREQ AVAILABLE				
85	1	M5903-00	DRIVE TRANSCIEVER				

86	1	M5904-00	MASS BUS CONTROL TRANSCIE				
87	1	M5960-00	REPLACEMENT M596				

88	1	M7231-00	DATA PATHS, KD11-A				
89	1	M7232-00	U WORD				
90	1	M7233-00	KD11-A IR DECODE				
91	1	M7234-00	KD11-A TIMING				
92	1	M7235-00	KD11-A STATUS PROCESSOR				

23

93	1	M7205-00	DM11 RECEIVER				
94	1	M7247-00	MODEM CONTROL MUX				
95	1	M7259-00	MODULE, PARITY CONTROL				
96	1	M7277-00	SCANNERS & NPH, DH11, HEX 8				
97	1	M7278-00	REC & BYTE CNT				

98	1	M7279-00	1ST IN 1ST OUT BUFFER DH1				
99	1	M7280-00	MULTIPLE UART CARD				
100	1	M7288-00	DH11 LINE PARAMETERS CONT				
101	1	M7289-00	DH11 RECV SCANNER				
102	1	M7294-00	DATA BUFFER & CONT RH11				

103	1	M7295-00	BUS CONTROL RH11				
104	1	M7296-00	CONTROL & STATUS REG				
105	1	M7297-00	PARITY CONTROL				
106	1	M7773-00	ASYNCHRONOUS LOGIC-RP04				
107	1	M7774-00	REGISTER LOGIC-RP04				

108	1	M7776-00	ERROR CORRECT LOGIC-RP0H				
109	1	M7786-00	SR&K & SEARCH CNTL LOGIC				
110	1	M7787-00	INTERFACE CONTROL				
111	1	M7788-00	INTERFACE TRANSMITTER				
112	1	M7789-00	INTERFACE RECEIVER				

113	1	M7800-00	ASYNCHRONOUS LINE INTERFA				
114	1	M7800-YA	M7800 WITHOUT EIA CHIPS				
115	1	M7821-00	INTERRUPT CONTROL				

116	1	M8293-00	M7293 W NO 8838'S				
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KL10-BB	A						
KL10-BB	A						
KL10-BB	A						
KL10-BB	A						
KL10-BB	A						
DH11-AC	A						
RP06	03						
TM02-FF	A						
KL10-BB	A						
DM11-DA	A						
KL10-BB	A						
KL10-BB	A						
KL10-BB	A						
KL10-BB	A						
DM11-BB	A						
DM11-BB	A						
KL10-BB	04						
DH11-AC	04						
DH11-AC	04						
DH11-AC	03						
KL10-BB	A						
KL10-BB	A						
KL10-BB	A						
RP06	07						
RP06	07						
RP06	04						
RP06	07						
RP06	A						
RP06	07						
RP06	07						
KL10-BB	07						
KL10-BB	A						
DH11-AC	A						
DM11-BB	A						
KL10-BB	A						





PS-59-50

DATE : 06-23-77

COUNTRY : UNITED STATES

CUSTOMER : UNIVERSITY OF QUEENSLAND

QUOTE # : 172711

TYPE : S

CURRENCY : DOLLARS

CURRENCY : DOLLARS

SORTED BY: CONFIGURATION

ITEM NUMBER	QTY	DEC PART NUMBER	DESCRIPTION	UNIT PRICE	EXTD PRICE	OPTION	LEAD TIME
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196	1	12-10890-01	SW,RKR 1P.4A ON/NONE/O			KL10-BB	06
197	1	12-10891-01	SW,TUC SP UN(40)ON W/RED			KL10-BB	06
198	2	12-10930-01	FAN 230VAC #756 OR #WS2			KL10-BB	06
199	1	12-11037-02	CKT BKR 30.0 A 240V 4P SE			KL10-BB	02
200	1	12-11142-00	CKT BKR 20.0 A 277V 3P SE			861-B	A
201	1	12-11147-01	CONTACTOR, 30A,3P DBL BRK			861-B	A
202	1	12-11157-00	LINE FILTER 3P 4W 50-60H			861-B	A
203	10	12-11158-00	THERMOSTAT,0@120,CQ160,SP			861-B	A
204	1	12-11179-00	RLY,REED, 48V COIL,SPST,-			861-B	A
205	1	12-11180-00	SW,TUG SP3T ON OF OM#7103			861-B	A
206	1	12-11191-00	CONN,POWER 2PIN RCPT NEM			KL10-BB	A
207	1	12-11204-00	CONN,POWER 2PIN RCPT, DU			KL10-BB	A
208	10	12-11239-00	LAMP 28V 40MAAT1-3/4 WITH			RP06	A
209	1	12-11496-00	CKT BKR 75.0 A 240V 4P			KL10-BB	06
210	2	12-11534-00	FAN AXIAL FLOW 250CFM 220			KL10-BB	06
211	1	12-11746-00	CONTACTOR, 40A,4P			KL10-BB	06
212	1	12-12749-00	LIGHT,PNC INDICATOR,LED,R			KL10-BB	06
213	10	12-13237-01	FUSE, RECTIFIER 15A,			H742-B	06
214	1	16-11491-00	XPMRF P=AB S=12DC @200A			KL10-BB	06
215	1	29-10193-00	19BLLOWER PANOTOR			RP06	A
216	1	29-13180-00	19RELAY DPDT 25A STA PR11			RP06	05
217	1	29-13243-00	19FILTER			DF10	02
218	1	29-21290-00	96AIR MEASURE KIT 29			RP06	04
219	1	29-22067-00	19PCBA INPUT			RP06	A
220	1	29-22068-00	19PCBA OUTPUT			RP06	A
221	1	29-22069-00	19PCBA PRECOMPENSATION			RP06	A
222	1	29-22070-00	19PCBA INDEX			RP06	A
223	1	29-22071-00	19PCBA VARIABLE FREQUENCY			RP06	A
224	1	29-22072-00	19PCBA SEQUENCE			RP06	A
225	1	29-22073-00	19PCBA SERVO CONTROL			RP06	A
226	1	29-22074-00	19PCBA VELOCITY SERVO			RP06	A
227	1	21-22075-00	19PCBA POSIDION SERVO			RP06	A
228	1	29-22076-00	19PCBA WRITE LOGIC			RP06	A
229	1	29-22077-00	19PCBA LINEAR APP 1			RP06	A
230	1	29-22078-00	19PCBA DETECTOR/SELECT 1			RP06	A
231	1	29-22079-00	19PCBA DATA SAFETY/HEAD S			RP06	A
232	1	29-22080-00	19SWITCH,SUBIN E63-10A			RP06	A
233	1	29-22082-00	19SWITCH, TOGGLE SPDT			RP06	A
234	1	29-22083-00	19SWITCH, TOGGLE SPDT			RP06	A
235	1	29-22084-00	19PCBA OPERATOR CONTROL			RP06	A

FS-59-50

DATE : 06-23-77

CUSTOMER : UNIVERSITY OF QUEENSLAND

COUNTRY : UNITED STATES

CURRENCY : DOLLARS

QUOTE # : 172711

TYPE : S

SORTED BY: CONFIGURATION

ITEM NUMBER	QTY	DEC PART NUMBER	DESCRIPTION	UNIT PRICE	EXTD PRICE	OPTION	LEAD TIME
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236	2	29-22086-00	1)FILTER, ABSOLUTE			RP06	A
237	1	29-22088-00	19AMP ASSY, SERVO POWER			RP06	A
238	1	29-22089-00	19POWER SUPPLY ASSY			RP06	06
239	1	29-22090-00	19FILTER, RFI 30A			RP06	A
240	1	29-22098-00	19EXHAUST ASSY AIR DEFLEC			RP06	06

241	1	29-22099-00	19PCBA RD/WR MATRIX 1			RP06	A
242	1	29-22100-00	19PCBA SERVO PREAMP			RP06	A
243	1	29-22104-00	10HEAD ASSY AD 200MB			RP06	A
244	1	29-22105-00	19HEAD ASSY, AU 200MB			RP06	A
245	1	29-22106-00	19HEAD ASSY, BD 200MB			RP06	A

256	1	29-22107-00	19HEAD ASSY, BU 200MB			RP06	A
247	1	29-22108-00	19HEAD ASSY, A SERVO 200M			RP06	A
248	1	29-22110-00	19T-8LOCK ASSY, CARRIAGE			RP06	06
249	1	29-22111-00	19GROUND ASSY, CARRIAGE			RP06	A
250	1	29-22113-00	19COIL ASSY, TACH			RP06	06

251	1	29-22114-00	19ROD ASSY, TACH			RP06	A
252	1	29-22115-00	19SWITCH, HEAD RETRACT			RP06	A
253	1	29-22116-00	19MOTOR, LINER			RP06	06
254	1	29-22117-00	19BOBBIN ASSY			RP06	A
255	1	29-22120-00	19FLEX CONDUCTOR ASSY			RP06	06

256	1	29-22121-00	19SPINDLE ASSY			RP06	06
257	1	29-22123-00	19SENSOR ASSY, PACK COVER			RP06	A
258	1	29-22124-00	19GROUND ASSY, SPINDLE			RP06	06
259	1	29-22126-00	19BELT, FLAT 50HZ			RP06	06
260	1	29-22129-00	19MOTOR, DRIVE 50HZ			RP06	06

261	1	29-22131-00	19SWITCH ASSY, COVER PM			RP06	06
262	1	29-22132-00	19CABLE ASSY, SPNDL MOTOR			RP06	06
263	1	29-22137-00	19PCBA +5V REGULATOR			RP06	A
264	1	29-22138-00	19PCBA -5.2V REGULATOR			RP06	A
265	1	29-22139-00	19PCBA +15V REGULATOR			RP06	A

266	1	29-22140-00	19PCBA -15V REGULATOR			RP06	A
267	1	29-22141-00	19RECTIFIER, ASSY PWR SUP			RP06	06
268	1	29-22146-00	81RECTIFIER, FW BRIDGE			RP06	06
269	1	29-22155-00	19CABLE, PWR SUP FAN			RP06	06
270	1	29-22161-00	19PCBA DYNAMIC BREAKING			RP06	A

271	1	29-22162-00	19CIRCUIT BREAKER, 3 POLE			RP06	06
272	1	29-22163-00	19RELAY, POWER			RP06	A
273	1	29-22164-00	19PCBA ARC SUPPRESSOR			RP06	A
274	1	29-22171-00	19CABLE ASSY, RD/WR PREAM			RP06	06
275	1	29-22172-00	19CABLE ASSY, SERVO CONTR			RP06	06



FS-59-50 DATE : 06-23-77

COUNTRY : UNITED STATES

CUSTOMER : UNIVERSITY OF QUEENSLAND

QUOTE # : 172711

TYPE : S

CURRENCY : DOLLARS

SORTED BY: CONFIGURATION

LEAD TIME

OPTION

EXPD PRICE

ENIT PRICE

DESCRIPTION

DEC PAPT NUMBER

ITEM NUMBER

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FS-59-50      DATE : 06-23-77      CUSTOMER : UNIVERSITY OF QUEENSLAND      QUOTE # : 172711      TYPE : S  
 COUNTRY : UNITED STATES      CURRENCY : DOLLARS

SORTED BY: CONFIGURATION

ITEM NUMBER	QTY	DEC PART NUMBER	DESCRIPTION	UNIT PRICE	EXTD PRICE	OPTION	LEAD TIME
315	1	70-09561-00	HARNES-DH11			DH11-AC	99
316	1	70-09808-00	HARNES DUAL PWT (70-973			RP06	09
317	1	70-09861-00	RECEPT HOUSING ASSY-RP04			KL10-BB	A
318	1	70-10466-00	SWITCH MARGIN CHECK ASSY			KL10-BB	09
319	1	70-12064-00	MDL1 HARNES RP05/RP06			RP06	09
320	1	70-12066-00	MASS BUS CABLE			RP06	09
321	10	90-07217-00	FUSE, REC BLON, 3-000A,			KL10-BB	09

*K Mo Helms*

TU45

<u>QTY</u>	<u>PART NUMBER</u>	<u>DESCRIPTION</u>
1	12-10477-00	Sensor, Low Pressure
1	29-22300-00	Tachometer
1	29-22301-00	Guide Assy. Tape
1	29-22302-00	Write Protect Assy.
1	29-22299-00	Motor, Reel DC
1	29-22298-00	Motor, Capstan AC
1	29-22295-00	Motor, Vacuum
1	29-22277-00	Head Dual Gap 9 Trk.
1	29-22289-00	Switch Assy, Load/Rese
1	29-22290-00	Switch Assy, Load
1	29-22291-00	Switch Assy, On-Line
1	29-22292-00	Switch Assy, Rewind
1	29-22288-00	Switch Assy, 1600 - CPI
1	29-22293-00	Switch, FPT
1	29-22276-00	Switch, Power
1	29-22286-00	Sensor Assy, Photo
1	29-22285-00	PCBA PE/NRZ Write
1	29-22287-00	PCBA Data KI
1	29-22296-00	PCBA Tape Control K
1	29-22297-00	PCBA Power Supply G
1	29-22303-00	PCBA Power Supply G
1	29-22283-00	Blade Tape Cleaner
10	29-22278-00	Shim .010
10	29-22279-00	Shim .015
10	29-22280-00	Shim .005
10	29-22281-00	Shim .002
1	29-22282-00	Filter Air

# MH10 RECOMMENDED SPARES LIST

(50 HZ)

857-00	Power Supply
MB20-M	Memory 32K X 19
H7420-B	Power Supply Hi Power
M8565	Timing
M8566	Cycle Timing
M8588	Parity Check
M8590	Priority Control
M8591	Address Receiver
M8592	Port Address
M8593	Data Register
M8593-YA	Data Register
M8594	Data Transceiver
M9005	Terminator
12-04826	Fan #CL2L

TOTAL

## LP100 Recommended Spares

M163	Dual Binary to Decimal Decode
M304	One Shot Delay
M3070	Dual Integrating One Shot
M311	Tap Delay
M564	Receiver, -3V I.O. Bus
M664	I/O Bus Driver
W519	Power Sequence & Crowbar

TOTAL

## LP07-AA SPARES

ITEM	QTY	DEC PART #	DESCRIPTION
1	10	12-02986-00	Lamp 330 14V
2	1	12-11581-00	Belt-V-Polyflex
3	1	29-15026-00	Switch Micro
4	10	29-15027-00	Actuator
5	1	29-15036-00	Indicator Base
6	1	29-15038-00	Indicator Lens
7	1	29-16158-00	Extender PCBA 14
8	1	29-17916-00	Tachometer
9	1	29-18205-00	Belt, Top of Form
10	1	29-19945-00	PCBA AP-17 Ribbon Con
11	1	29-19946-00	PCBA AS-40 Hammer Drv
12	1	29-19947-00	PCBA AZ-111 Volt Reg
13	1	29-19948-00	PCBA AZ-126 Bridge Bd
14	1	29-20122-00	Belt 260XL012
15	1	29-20135-00	Belt 240XL075
16	10	29-20148-00	Spring
17	1	29-20313-00	Switch, Snap Spot 311
18	1	29-20325-00	Motor Assy PF
19	1	29-20333-00	Blower, 115V 50/60HZ
20	1	29-20334-00	PCBA AZ-113 5 Volt Re
21	1	29-20346-00	Switch Rocker Dpdt
22	1	29-20351-00	PCBA ETM
23	1	29-20354-00	Relay KI ETM
24	1	29-20370-00	Idler Assy
25	1	29-20371-00	Idler Wheel
26	1	29-20372-00	Idler Wheel
27	1	29-20376-00	Clutch Sup Assy
28	1	29-20396-00	Switch, Rocket Spot
29	1	29-20669-00	PCBA AV-18 HB Pwr Sup
30	10	29-21118-00	Screw, Backstop
31	1	29-21145-00	Xducer
32	10	29-21452-00	Switch Act
33	1	29-21465-00	PCBA AV-21 Pap ED Con
34	1	29-22320-00	Sensor Assy, Temperat
35	10	29-22321-00	Filter, Air
36	1	29-22322-00	Spring, Torsion
37	1	29-22323-00	Power Supply Assy, Re
38	1	29-22324-00	PCBA AH-28 Hmmer Drvr
39	1	29-22325-00	PCBA Regulator H/B Pw
40	1	29-22326-00	PCBA AB-21 Hmmer Cont
41	1	29-22327-00	PCBA AS-51 Hmmer Trqqr
42	1	29-22328-00	Bearing Assy
43	1	29-22329-00	PCBA AG-64 Mstr Clr S
44	1	29-22330-00	Bearing Assy
45	1	29-22331-00	PCBA Led
46	1	29-22332-00	PCBA AP-24 Pap Ed Amp
47	1	29-22333-00	PCBA AR-45 Line Bffr
48	1	29-22334-00	PCBA AR-47 Band Inden
49	1	29-22335-00	PCBA AG-66 Tape Chan

<u>ITEM</u>	<u>QTY</u>	<u>DEC PART</u> <u>#</u>	<u>DESCRIPTION</u>	<u>UNIT</u>	<u>EXT</u>
50		29-22336-00	PCBA AR-49 Data Regst		
51		29-22337-00	PCBA AC-25 Char Count		
52		29-22338-00	PCBA AC-27 Data Compa		
53		29-22339-00	PCBA AT-50 Time + Int		
54		29-22340-00	PCBA AR-53 Mode Regis		
55		29-22341-00	PCBA AC-29 Column Cou		
56		29-22342-00	PCBA AG-68 VFU Logic		
57		29-22343-00	PCBA AP-17 VFU Control		
58		29-22344-00	PCBA AP-25 Control LO		
59		29-22345-00	PCBA AG-70 Aux Contro		
60		29-22346-00	PCBA AP-29 Motor Cont		
61		29-22347-00	PCBA Hand Gate Electr		
62		29-22348-00	PCBA AT-52 Hmnr Tim I		
63		29-22349-00	Shield, Ribbon		
64		29-22350-00	Hammer		
65		29-22351-00	Reader, Tape 12 Chann		
66		29-22352-00	PCBA AL-68 Drv/Rcv Co		
67		29-22353-00	Power Supply, Pap Fee		
68		29-22354-00	Clamp, Bearing		
69		29-22355-00	Clamp, Bearing		
70		29-22356-00	Bearing Assy		
71		29-22357-00	Clamp, Bearing		
72		29-22358-00	Bearing Assy		
73		29-22359-00	Motor, 2 Speed 115V 5		
74		29-22360-00	Motor Assy Ribbon		
75		29-22361-00	Tractor Assy		
76		29-22362-00	Tractor Assy		
77		29-22363-00	Tractor Assy		
78		29-22364-00	Tractor Assy		
79		29-22365-00	Motor Assy Deskew		
80		29-22366-00	PCBA Pap Fd Sw Cont		
81		29-22367-00	Sensor Assy Paper Mot		
82		29-22368-00	PCBA AG-76 Aux Logic		
83		29-22369-00	Switch Spdt W/Actuator		
84		29-22370-00	Switch, Spdt W/Actuator		
85		29-22371-00	Lens Ind Red		
86		29-22372-00	Lens Ind White		
87		29-22373-00	Lens Ind White (Run)		
88		29-22374-00	Lens Ind Red		
89		29-22375-00	Lens Ind Red		
90		29-22376-00	Lens Ind Red		
91		29-22377-00	Spring, Latch		
92		29-22378-00	Spring, Extension		
93		29-22379-00	Relay 25A 24VDC 120/2		
94		29-22380-00	Switch Rocket Spdt		
95		29-22381-00	Pickup Mag 8V		
96		29-22382-00	Bearing, Ball Radial		
97		29-22501-00	PCBA Long Line Driver		
98		29-22548-00	PCBA AG-38 Data Sele		
99		29-22549-00	PCBA AV-22 PS Regulat		
100		29-22550-00	PCBA AM-33 Memory		
101		29-22551-00	PCBA AG82 Davfu I		
102		29-22552-00	PCBA AG84 Davfu II		
103		29-22553-00	PCBA Logic Driver		
104		29-22553-00	PCBA AP-33 PF Amplifi		
105		29-22555-00	PCBA AP-34 PF Pwr Amp		
106	10	29-22557-00	Plan Drive Link Tract		



## MISCELLANEOUS PARTS AND SPECIAL TOOLS

<u>ITEM</u>	<u>QTY</u>	<u>DEC PART</u> <u>#</u>	<u>DESCRIPTION</u>
107	10	90-07211-00	Fuse, Reg Blow, 1.000A, 250V, Glass
108	10	90-07226-00	Fuse, Reg Blow, 15.000A, 32V, Glass
109	10	90-08390-00	Ruse, Reg Blow, 10.000A, 250V, Ceramic

TOTAL

# DN87S-AB SPARES

<u>ITEM</u>	<u>QTY</u>	<u>DEC PART</u> <u>#</u>	<u>DESCRIPTION</u>
1	1	M7100	I/O Device Ctrl
2	1	M7251	XOR and CRC Block
3	1	M787	50-08774-E
4	1	W106	Module

TOTAL

	\$
CROSS TOTAL SCHEDULE C	207,000
Less discount on spares	<u>103,000</u>
	<u>\$104,000</u>

These prices are based on the exchange rate of A\$1.00 = US\$1.08.

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE D

DIAGNOSTICS, OTHER SOFTWARE AND TRAINING

			\$
(1)	ZH005-CD	MDS Service	44,000
(1)	QH110	MACY-LNKX11 Software	N/C
(1)	Decnet-10	Binaries and Sources	11,800
(1)	QR430-AE	RSTS-E license, support	7,140
(1)	QR430-FR	RSTS-E Listing on fiche	1,685
(1)	QJ628-AE	RSX-11M license, support	3,245
(1)	QJ638-EE	RSX-11M V3 Sources	6,490
(1)	QJ681-AE	DECNET-11M license, support	1,945
(1)	QJ681-FR	DECNET-11M listing on fiche	710
(1)	QP230-AE	FIV/RSX-11M license	1,040
(1)	20 man-weeks Engineering Training		<u>10,000</u>
	GROSS TOTAL		88,055
	less discount		<u>34,055</u>
	NET TOTAL		<u>\$ 54,000</u>

These prices are based on the exchange rate of A\$1.00 = US\$1.08.

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE E

ACCEPANCE TESTS OF THE SYSTEM'S HARDWARE

1. The Tests will be conducted in series as grouped on the following pages; one series will be running at a time, the following being initiated only after successful completion of the previous series.
2. The Tests will be conducted during the hours of 9 a.m. to 5 p.m., unless the duration of a test carries on longer, Monday to Friday, exclusive of public holidays and with one hour being allowed for lunch.
3. The UNIVERSITY'S representative shall be present during the running of all the Tests and keep a Test Log, a sample of which is in Appendix A.
4. The UNIVERSTY retains the right to request DIGITAL'S representative to attach a Cathode Ray Oscilloscope to the appropriate monitoring point in the System Hardware prior to the running of any of the Hardware tests for the purposes of checking various transfer rates.
5. Definitions of Defects

Class A. Class A defects include operator errors, defective indicator lamps and bad spots on tape, etc. These are defects that do not affect the basic integrity of the system.

Class B. Class B defects include errors in programs, bad data or bad source programs, missing files or errors in files, etc. They are not hardware problems.

Class C. Class C defects are all defects (other than Class A defects) in the processor(s), the memory system, and the peripheral equipment of the system.

Correction Procedures

Class A. A Class A defect is fixed immediately if necessary to complete a test. The only requirement, however, is that it be fixed before the acceptance period can be completed successfully. No test need be rerun for a Class A defect unless the defect precludes the successful completion of the test.

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

Class B. A Class B defect must be fixed or circumvented and the program with the error rerun prior to completion of the acceptance test.

Class C. If the defect occurs on a device not currently being tested, the defective device will be fixed, and

- a. if the acceptance test on the defective device has already been run, it will be rerun.
- b. if the acceptance test on the defective device has not been run, it will not be run until originally scheduled.

In either case, the interrupted test will be continued if possible. Otherwise, it will be restarted.

6. Procedure

The following pro-forma's together constitute the Hardware Acceptance Test procedures for the System:-

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

KL10 Acceptance Procedure

The following Maindec-10 diagnostics will be run through four passes or for at least five minutes without error.

Test started at.....  
(Date and Time)

Maindec-10	DGDTE	DTE Interface Tests
	DGKAA	KL10 E-box Tests
	DGKAB	KL10 E-box Tests
	DGKBA	KL10 M-box Tests
	DGKBB	DMA20 Memory Controller Tests
	DGKBC	Paging Logic Tests
	DGMCA	Cache Tests
	DGKCA	Meter Tests
	DGKBD	KL10 Channel Control Diagnostic
	DGKBE	KL10 Channel Loop-Back Tests
	DFKAA	Processor Diagnostic
	DFKAB	Basic Instruction Diagnostic
	DFKAC	Basic Instruction Diagnostic
	DFKAD	Basic Instruction Diagnostic
	DFKCA	KL10 Advanced Instruction Test
	DFKBA	KL10 Instruction Reliability Test
	DFKEA	KL10 Paging Hardware Diagnostic
	KFKEB	KL10 Monitor UOQ Test
	DFDTE	KL10 DTE Functional Test
	DFKDA	KL10 Arithmetic/Random/Interrupt/ Memory Reliability Test

Tests Completed Satisfactorily at .....  
(Date and Time)

Comments:

UNIVERSITY Representative

Signature .....

Title .....

Date .....

DIGITAL Representative

Signature .....

Title .....

Date .....

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

Front End Test Procedure

The 11/40 console processor will have the following tests completed with no errors for one pass.

Test started at .....  
(date and time)

DBQEA	Basic 11/40 Exerciser
BZQMC	Basic Memory Exerciser
DZBMC	BM783-YD, YF Test
DZRXA	RX11/RX01 Reliability
SY1090	System Exerciser (1 hour)

Tests completed satisfactorily at .....  
(date and time)

Comments:

UNIVERSITY Representative:

Signature .....

Title.....

Date .....

DIGITAL Representative:

Signature .....

Title .....

Date .....



AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

MH10 Memory Acceptance Procedure

Each MH10 memory module will have the following Maindec diagnostic programmes run for a period of 12 hours without failure:-

- ° DIGITAL will demonstrate 2 and 4 way interleaving and the addressing of each memory unit as the lower address unit. (5 minute test in each mode to be done before the main 12 hour test.

Test started at .....  
(date and time)

MAINDEC-10 - DDMMD - Memory Test

Test completed satisfactorily at .....  
(date and time)

° Comments:

UNIVERSITY Representative

Signature .....

Title .....

Date .....

DIGITAL Representative

Signature .....

Title .....

Date .....

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

Disk Subsystem Acceptance Procedure

The KL10 Disk Subsystem comprises:-

1. 2 x RH20 Channels and RP06 Controllers
2. 2 x RP06-AB Single-Port Disks
3. 1 x RP06-BB Dual-Ported Disk

The following Maindec-10 diagnostic tests will be run for the specified number of passes. The allowable error rates for the RP06's are:-

Irrecoverable - none

Recoverable - 1 error in  $10^9$  bits read

Seek - 1 error in  $10^6$  bits read

All disk packs must have less than six bad spots or be replaced.

Tests started at .....  
(date and time)

Maindec-10	DFRHB	RH20 Controller Test	5 passes
	DFRPI	TotalDisk Diagnostic	overnight for
			14 hours minimum

Tests completed satisfactorily at .....  
(date and time)

Comments:

UNIVERSITY Representative

DIGITAL Representative

Signature .....

Signature .....

Title .....

Title .....

Date .....

Date .....

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

TU45 Tape Subsystem Acceptance Procedure

The KL10 tape subsystem comprises:-

1. 1 x RH20 Channel and Tape Control
2. 2 x TU45 9 track tape units

The following Maindec-10 diagnostic tests will be run without hard errors when run the specified number of times:-

All magnetic tape tests to be run in both densities.

Tests started at .....  
(date and time)

Maindec-10	DFRHB	Channel Controller
	DFTUE	Tape Reliability Test
	Section B1	2 passes
	Section B2	2 passes
	Section R1	2 passes
	IW/IR	Compatability with all drives
	DFTUF	1 pass

The maximum allowable soft error rates per 2400ft. tape will be:

<u>NRZI</u>	4 write errors
	2 read forward errors
	2 read reverse errors
<u>PE</u>	4 write errors
	2 read forward errors
	10 read reverse errors

Tests completed satisfactorily at .....  
(date and time)

Comments:

UNIVERSITY Representative

DIGITAL Representative

Signature .....

Signature .....

Title .....

Title .....

Date .....

Date .....

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

LP100 Lineprinter Acceptance Procedure

The following Maindec diagnostic test will be run through one pass and produce no errors and satisfactory copy:-

Test started at .....  
(date and time)

Maindec-10      DDLPA      Lineprinter Test

Tests completed satisfactorily at.....  
(date and time)

Comments:

UNIVERSITY Representative

DIGITAL Representative

Signature .....

Signature .....

Title .....

Title .....

Date .....

Date.....

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

Communication Front End Subsystem Acceptance Procedure

The communication front end consists of:-

- 1. 1 DN87S with 64 Async Lines
- The following maindec diagnostic tests will be run for the specified number of passes without errors. ALL LINES WILL BE CHECKED WITH TURNAROUND CONNECTIONS.

Test started at .....  
(date and time)

1. DECX 11	System Exercisor	- 2 passes
2. DFDTE	10/11 Interface	- 15 minutes
3. DZDHM	DH11 Diagnostic	- 4 passes

Tests completed satisfactorily at .....  
(date and time)

Comments:

UNIVERSITY Representative

DIGITAL Representative

Signature .....

Signature .....

Title .....

Title .....

Date .....

Date .....

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

DF10C Acceptance Procedure

The following stand alone test for the data channel should be run for half an hour without error.

Test started at .....  
(date and time)

DD DFA      I/O DF10C Test

Test completed satisfactorily at .....  
(date and time)

Comments:

UNIVERSITY Representative

Signature .....

Title .....

Date .....

DIGITAL Representative

Signature .....

Title .....

Date .....

SCHEDULE F

ACCEPTANCE TEST OF THE SYSTEM'S OPERATION AND ITS STANDARD SOFTWARE  
(HEREINAFTER "SYSTEM TEST")

1. The System Test consists of keeping the System continuously running with a mix of the programs defined below.

2. Definitions

- 2.1 Effectiveness Level (E) shall be Operational Use Time (O) divided by the sum of O plus Downtime (D)

$$E = O / ( O + D )$$

It shall be computed daily.

The Effectiveness Level of added, substituted or replacement equipment contributes to the compilation of the System's Effectiveness Level and its average only in proportion to this equipment's participation in the test.

- 2.2 Operational Use Time is any time not classified as Non-Operational Time.

- 2.3 Non-Operational Time shall be the period between occurrence of a System Failure and the moment the System recommences or is ready to recommence the System Test. Non-Operational time will be classified as either Downtime or Idletime.

- 2.4 Downtime shall be the Non-Operational Time between 9 a.m. and 5 p.m. Monday to Friday and any time outside this period of which DIGITAL makes use for remedial maintenance.

- 2.5 Idletime shall be any Non-Operational Time which cannot be classified as Downtime.

In the event, that a dispute arises as to the cause or nature of a failure, the time taken to determine the cause will be counted as Idletime.

- 2.6 A System Failure is the occurrence of a failure of any part of the Hardware or Standard System Software or any error condition reported on the controlling console which causes a termination of a user job except that



AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

failure of a terminal shall not constitute a System Failure.

Notwithstanding the above, a System Failure includes any error condition which is judged to cause a degradation of the system operation below that which would be acceptable to the relevant "Hardware Acceptance Test Procedure".

Without limiting the generality of the above, the contents of the error file ERROR.SYS will be printed each day by the DEC program SYSERR and agreement will be reached each day between the representatives of DIGITAL and the UNIVERSITY as to the acceptability or not of the error rates printed therein. In particular the number of recoverable errors each day of effective 23 hours of operation, or pro rata for a lesser period of effective use, shall not exceed 25 in the case of each disk drive and 25 in the case of each tape drive; the number of operator interventions to allow any particular device to continue in normal operation will not exceed 2 per device in each day of effective 23 hours of operation or pro rata for a lesser period of effective use.

3. Acceptance Criteria

The System Test starts after completion of the Trial run following Hardware Acceptance. It will end and be deemed a successful demonstration of the System's reliability when:-

- (a) the System has been running for a period of 12 days, 24 hours each (with the exception of scheduled preventive maintenance) and a minimum of 100 hours Operational Use Time; and
- (b) the average Effectiveness Level during that period has been 95% or better; and
- (c) the System did not experience during that period more than 6 System Failures.

The System Test shall continue on a day-by-day basis until these criteria are satisfied, but not after 31st May, 1978.

4. Conduct of Test

The UNIVERSITY shall keep a log of all events during the System Test, a sample of which is in Appendix B.

5. DIGITAL agrees to accept the record of progress and events made by the UNIVERSITY during the hours when no DIGITAL

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

representative witnessed the Test.

6. Programs

Prior to Installation date, the parties shall agree on the specific programs to be used in the System Test.

Any such program not provided by DIGITAL shall be demonstrated to DIGITAL'S satisfaction by the University to be error free and runnable on the System by way of demonstration on the KL10B at W.A.I.T. prior to Installation date.

The programs for the System Test will provide the following:

- (a) Batch jobs to form a fairly high background load consisting of various production programs, e.g. Payroll from the current KAl0 system, DEC SCRIPT simulations, compiles, etc.
- (b) Continuous monitoring of the System, for example, by a single simple program which wakes every five minutes or so and types date and time.
- (c) Random interactive monitoring, for example, by asking the program in (b) above to type date and time.
- (d) Monitoring of response by measuring the response to perform a simple constant task such as a DIRECTORY command. Such a task would be set up in an ATO file to run every five minutes or so and the response will be plotted for the period.
- (e) Interactive simulation of a large number of terminal jobs.
- (f) Interactive jobs using one or several live terminals to run interactive jobs such as compiling and running using standard source files.
- (g) Standard DIGITAL supplied diagnostic programs.

The jobs in (b), (c) and (d) above are designed to provide a continuous indication that the System is running in a normal or expected manner and is not in some hung or abnormal state.

The UNIVERSITY may choose to run any programs from the agreed list of programs in any order or mix as its representative so decides at any time during the Reliability Test Period.

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE G

HARDWARE TEST PROCEDURES FOR PRODUCTS IN SCHEDULE B

The following Maindec-11 diagnostic tests will be run so that each device is exercised by at least one pass of each test or for fifteen minutes for all tests, whichever is the greater.

No errors are acceptable.

Maindec-11            DZDMC-A    Basic W/R and Microprocessor test  
                      DZDME-A    DDCMP mode line unit test  
                      DZDMF-A    Bitstuff mode line unit test

The UNIVERSITY will provide a PDP11-34 with at least 16 Kwds of memory and sufficient space to mount the DD11-D back plane and one console terminal.

Test started .....

Test Completed .....

Comments:

UNIVERSITY Representative

DIGITAL Representative

Signature .....

Signature .....

Title .....

Title .....

Date .....

Date .....

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE H

SYSTEM DESCRIPTION DOCUMENTS

HARDWARE OPTION BULLETINS

<u>DESCRIPTION</u>	<u>DATE</u>
KL10 Central Processing Unit	October 1976
MG10 and MH10 Memory Systems	October 1976
RP04/05/06 Disk Pack Subsystems	September 1976
TJU45 Magnetic Tape System	May 1975
LP100-BA, -BB Printer Systems	August 1976
DN87S Front End - pages 2-22 to 2-26 of the Tender dated 28/02/77 received from DIGITAL.	

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE H (Cont.)

SOFTWARE PRODUCT DESCRIPTIONS

<u>SPD No.</u>	<u>DATE</u>	<u>DESCRIPTION</u>
7.1.5	May 1977	TOPS-10, Version 6.03
7.32.1	May 1977	GALAXY-10, Version 2
7.15.3	February 1977	DECsystem-10 COBOL-68, Version 11.
7.10.0	October 1974	BASIC-10
7.5.4	February 1977	ALGOL-10, Version 10.
7.20.3	January 1977	FORTTRAN-10, Version 5.
8.35.2	June 1975	VM SER
7.31.2	February 1977	DECsystem-10 SORT/MERGE, Version 3
8.60.0	April 1975	DECNET-10 NETWORK SOFTWARE
14.63.2	January 1977	FORTTRAN IV/IAS-RSX, Version 1C
10.75.4	March 1977	DECNET-11M, Version 1.2
14.35.5	February 1977	RSX-11M, Version 3
13.1.8	March 1977	RSTS/E, Version 6B
8.25.1	April 1975	MACY11-LINKX11

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE I

DECsystem-10 Software Licence Agreement

Licensor: DIGITAL EQUIPMENT CORPORATION, (hereinafter called "DEC").

Licensee: UNIVERSITY OF QUEENSLAND (hereinafter called the "UNIVERSITY")

Digital Equipment Australia Pty.Ltd., (hereinafter called "DIGITAL", a subsidiary company of DEC, agrees to grant and "the UNIVERSITY" agrees to accept a non-transferable and non-exclusive licence to use each of the programs and such related materials, software support services and documentation, all as described on Rider A, attached hereto and made a part hereof, hereinafter singularly and/or collectively referred to as Licenced Program), on the following terms and conditions:

1. Term

Each Licence shall be effective from the date hereof and shall remain in force until the UNIVERSITY discontinues the use of such Licenced Program, or the Licence is otherwise terminated as provided herein.

2. Licence

The UNIVERSITY shall have the right to use each Licenced Program or any portion thereof on a single DEC Computer System described on Rider A (hereinafter referred to as DEC system), and for no other purpose.

3. Licence Fee

The Licence shall be at no charge.

4. Right to Use

- a) The UNIVERSITY may edit, format or otherwise modify the Licensed Program provided, however, that any portion thereof included in a modified work shall remain subject to all

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

terms and conditions of this Licence and shall remain the property of DEC.

- b) The UNIVERSITY may copy each Licenced Program for the purpose of (i) using the Licence Program on a single DEC system, (ii) modifying each Licenced Program as provided above, (iii) to replace a worn or deteriorated copy and (iv) for archive or emergency restart purposes.
- c) The UNIVERSITY agrees to reproduce and include DEC's copyright notice on all copies of each Licenced Program, or any modifications thereof in any form.

The UNIVERSITY's right to copy and/or modify any Licenced Program shall be limited to the conditions set forth in this Paragraph 4.

5. Security

The UNIVERSITY agrees that it will use its best endeavours not to provide or otherwise make available any Licenced Program or any portion thereof, including but not limited to flow charts, logic diagrams and source codes, in any form, to any person other than the UNIVERSITY or DIGITAL employees without the prior written approval of DIGITAL.

6. Title

Title to and ownership of the Licenced Program shall at all times remain with DEC.

7. Taxes

Where applicable and on production of documentary evidence, there shall be added to the fee payment by the UNIVERSITY hereunder amounts equal to any charges, assessments, sales, excise or other taxes now hereinafter imposed by any governmental body or agency based on such fees or on this Licence paid or payable by DEC, other than taxes, fees or charges on or measured by the net income of DEC.

8. Termination

In the event the UNIVERSITY or any sublicensee neglects or fails to perform or observe any of its obligations under this Agreement or a sublicense or if any assignment shall be made of its business for the benefit of creditors, or if a receiver, trustee in bankruptcy or a similar officer shall be appointed to take

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

charge of all or part of its property, any sublicense as to a sublicensee, shall immediately terminate. Such termination shall be limited to the Licence(s) to the UNIVERSITY or sublicensee in default.

9. Certification

Within two weeks after the termination of any Licence granted hereunder, in accordance with the terms hereof, the UNIVERSITY shall certify in writing to DIGITAL that through its best efforts and to the best of his knowledge the original and all copies, in any form, in whole or in part, and including partial copies and modifications of the Licenced Program, received from DIGITAL or made in connection with the Licence have been destroyed except as may be authorised in writing by DIGITAL.

10. Assignment

This Licence Agreement, the Licences granted hereunder and the Licenced Program may not be assigned, sublicenced or otherwise transferred by the UNIVERSITY except as otherwise provided herein without prior written consent from DIGITAL. No right to reprint or copy in whole or in part the Licenced Program is granted hereby except as otherwise provided herein.

11. General

This Licence Agreement supercedes all prior agreements and understandings between the parties concerning the subject matter herein and may not be changed or terminated except by a writing signed by the party against whom the same is sought to be enforced.

If any of the provisions of this Licence Agreement are invalid under any applicable statute or rule of law, such provisions or portions thereof are to that extent deemed to be omitted. The UNIVERSITY's remedies in this Licence Agreement are exclusive.

This Licence Agreement shall be governed by the laws of the State of Queensland.



AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE I (Continued)

RIDER A TO SOFTWARE LICENCE AGREEMENT

This Rider A is attached to and made a part of the Licence Agreement.

1. Programs, Related Materials and Documentation, Software Support Services and Licence Fee

The software items of Schedule A, DECNET-10, MACY-11 - all items at no charge.

2. DEC Computer System

The subject of this Contract.

3. Warranty

The Licenced Program will substantially conform to the applicable DEC Software specification manual when it is shipped to the UNIVERSITY. DEC's and DIGITAL's sole obligation under this warranty shall be to correct errors which were present at the time of shipment of the Licenced Program and which result from failure to perform substantially in accordance with such specification manual provided that the UNIVERSITY notifies DIGITAL in writing of such errors within 120 days from the date of shipment. EXCEPT FOR THE EXPRESS WARRANTY STATED ABOVE IN THIS PARAGRAPH, DEC DISCLAIM ALL WARRANTIES OF MERCHANTABILITY AND FITNESS; and the stated express warranties are in lieu of all obligations or liability on the part of DEC or DIGITAL for indirect or consequential damages arising out of or in connection with the use or performance of the Licenced Program.

The foregoing is hereby approved and agreed to as a Rider to and a part of the Licence Agreement for DEC Programs.

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

SCHEDULE I (Continued)

DIGITAL EQUIPMENT CORPORATION  
LICENSE AGREEMENT FOR DEC SOFTWARE PROGRAM SOURCES

Customer Name: University of Queensland (hereinafter referred to as the UNIVERSITY)

Address: St. Lucia  
Queensland 4067  
Australia

Digital Equipment Australia Pty.Ltd., (hereinafter referred to as "DIGITAL") a subsidiary company of DIGITAL EQUIPMENT CORPORATION, agrees to grant hereby and the UNIVERSITY agrees to accept, a non-transferable and non-exclusive licence to use each of the software program sources and listings available from DIGITAL (hereinafter singularly and/or collectively referred to as "Source") on the following terms and conditions:

1. TERM

Each Source shall be under a separate Licence effective from the date of delivery thereof and shall remain in force until the UNIVERSITY discontinues the use of such Source, or the Licence is otherwise terminated as provided herein.

2. LICENCE

The UNIVERSITY shall have the right to copy and use this source or any portion thereof, or the binaries/object codes generated therefrom, on any DIGITAL Computer System located within the facility or campus specified below for which the UNIVERSITY has purchased a separate binary License.

Facility: Prentice Computer Centre  
Name: University of Queensland  
Address: St. Lucia  
Qld. 4067

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

3. RIGHT TO USE

The UNIVERSITY may modify or copy the Source (with the inclusion of DIGITAL's copyright notice) provided, however, that any portion thereof included in a modified work shall remain subject to all terms and conditions of this License.

4. SECURITY

The UNIVERSITY agrees that it will use its best endeavours not to provide or otherwise make available any Source or any portion thereof, including but not limited to flowcharts, logic diagrams, binaries/ object codes, source codes, and listings in any form, to any person other than the UNIVERSITY or DIGITAL employees without the prior written approval of DIGITAL or in the case of binaries/object codes, a separate License.

5. TITLE

Title to and ownership of the Source shall at all times remain with DIGITAL.

6. WARRANTY

DIGITAL DISCLAIMS ALL WARRANTIES WITH REGARD TO THE SOURCE LICENSED HEREUNDER, INCLUDING ALL WARRANTIES OF MERCHANTABILITY AND FITNESS, and any stated express warranties are in lieu of all obligations or liability on the part of DIGITAL for indirect or consequential damages arising out of or in connection with the use of performance of the Source licensed hereunder.

*or*

7. TERMINATION

In the event the UNIVERSITY neglects or fails to perform or observe any of its obligations under this Agreement, or if any assignment shall be made of its business for the benefit of creditors, or if a receiver, trustee in bankruptcy or a similar officer shall be appointed to take charge of all or part of its property, or if it is adjudged a bankrupt and such condition(s) is not remedied within ten (10) days after written notice thereof has been given to the UNIVERSITY, this License Agreement and all licenses granted hereunder as to the UNIVERSITY shall immediately terminate.

Within two (2) weeks after such termination, the UNIVERSITY shall certify in writing to DIGITAL that through its best efforts and to the best of its knowledge the original and all copies, in any form, including partial copies and modifications of the Source,

AGREEMENT TO PURCHASE A DECSYSTEM-10  
SCHEDULES SECTION

received from DIGITAL or made in connection with the License have been destroyed.

8. ASSIGNMENT

This License Agreement, the licenses granted hereunder and the Source may not be assigned, sublicensed or otherwise transferred by the UNIVERSITY without prior written consent from DIGITAL. No right to reprint or copy the Source, in whole or in part, is granted hereby except as otherwise provided herein.



**PRENTICE COMPUTER CENTRE**

KL10B	HARDWARE	ACCEPTANCE	TEST	LOG
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DATE .....

PAGE ..... / .....

[illegible]



77432.14.7

14 July 1977

University of Queensland  
St. Lucia  
Queensland, Australia 4067

Attention: The Registrar

Dear Sir:

This is to advise you that Digital Equipment Australia Pty. Ltd. is a wholly owned subsidiary of Digital Equipment Corporation and that in consideration of your entering into the agreement referred to below we hereby guarantee due performance by Digital Equipment Australia Pty. Ltd. of all of its obligations to you under or in connection with a sales agreement with you for the delivery of a DECsystem-10 90-HB and associated items to be signed in July 1977, and we submit to the jurisdiction of the Courts of the State of Queensland in connection with this guarantee and agree that the law of Queensland shall be the proper law of the guarantee.

Very truly yours,

  
DIGITAL EQUIPMENT CORPORATION

Edward A. Schwartz  
Vice President  
General Legal Counsel and  
Secretary

EAS/r



Digital Equipment  
Australia Pty Limited

50 WATER STREET  
SPRING HILL  
BRISBANE 4000  
QLD. AUSTRALIA  
TELEPHONE 229 3088  
TELEX 40616

OTHER BRANCHES AT  
ADELAIDE, CANBERRA  
HOBART, MELBOURNE  
PERTH, SYDNEY.

28th July, 1977

Mr. A.W. Coulter,  
Director,  
Prentice Computer Centre,  
University of Queensland,  
ST. LUCIA QLD 4067

Dear Sir,

This is to confirm that the airflow into cabinets on the DECSys<sup>tem</sup> 1090  
contracted will be from bottom to top.

Yours faithfully,

A handwritten signature in cursive script that reads "B. Tannock".

Bruce Tannock,  
Queensland Manager





Digital Equipment  
Australia Pty Limited

50 WATER STREET  
SPRING HILL  
BRISBANE 4000  
QLD. AUSTRALIA  
TELEPHONE 229 3088  
TELEX 40616

OTHER BRANCHES AT  
ADELAIDE, CANBERRA  
HOBART, MELBOURNE  
PERTH, SYDNEY.

28th July, 1977

The Registrar,  
University of Queensland,  
ST. LUCIA QLD 4067

Dear Sir,

We refer to the contract for the supply of the DECSys<sup>tem</sup> 1090 and associated items. We agree that in addition to the items, the subject of that contract, we will, at the request of the University, and at no charge, supply software licenses for each system manufactured by DEC, to a maximum of ten systems, being substantially connected to the DECSys<sup>tem</sup> 10.

The licences granted for each system will cover one operating, up to two languages, and the appropriate DECnet product. *FIVE*

The granting of such licenses will be conditional on:-

- (a) the licensed configuration as purchased from Digital is sufficient to fulfill the minimum hardware configuration as per the appropriate Software Product Descriptions;
- (b) the license applies to that software which has been previously purchased from or otherwise provided by Digital.

The agreement applies to DEC systems ordered by 30th June, 1979.

Yours faithfully,

Bruce Tannock,  
Queensland Manager.

**digital**  
Digital Equipment  
Australia Pty Limited

50 WATER STREET  
SPRING HILL  
BRISBANE 4000  
QLD. AUSTRALIA  
TELEPHONE 229 3088  
TELEX 40616

OTHER BRANCHES AT  
ADELAIDE, CANBERRA  
HOBART, MELBOURNE  
PERTH, SYDNEY.

28th July, 1977

The Registrar,  
University of Queensland,  
ST. LUCIA      QLD      4067

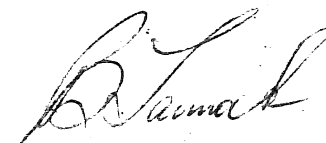
Dear Sir,

We refer to the contract for the supply of the DECSys<sup>tem</sup> 1090 and associated items. We agree that in addition to the items, the subject of that contract, we will reimburse the University of Queensland for the cost of three economy return airfares Brisbane to Boston, as follows:

1. One return fare in regard to DECSys<sup>tem</sup> 10 Engineer Training.
2. Two return fares in regard to Management and/or Software training on the DECSys<sup>tem</sup> 10.

The relevant fares claimed must be in relation to travel prior to 31st December, 1978.

Yours faithfully,



Bruce Tannock,  
Queensland Manager.



