SCIENCE AND ENGINEERING RESEARCH COUNCIL
RUTHERFORD APPLETON LABORATORY

COMPUTING DIVISION

DISTRIBUTED INTERACTIVE COMPUTING NOTE 702

COMPUTING FACILITIES

Specification of VAX 11/750

issued by
R W Witty
15 October 1982

---

DISTRIBUTION: F R A Hopgood
R W Witty
K Robinson
C Prosser
L O Ford
E V C Fielding
P J Smith
D A Duce
Comp Facils/Gen File
DIC Notes File

## 1. INTRODUCTION

The following is a specification for a small VAX 11/750 system to run Berkeley Unix for CBP Berkeley Unix development and the STI software tool kit.

A major saving on disk costs plus useful flexibility in conjunction is proposed by sharing the existing RM03 drives between the PDP-11 and the VAX 11/750.

## 2. SPECIFICATION

### 2.1 VAX

a. VAX 11/750 CPU.

b. Minimum 1 Mbyte main memory.

c. Minimum 128 Mbytes on line disk storage. Fixed disk is acceptable eg Winchester type.

d. 16-line multiplexer (DZ11 type).

e. Printing console typewriter.

f. Floating point unit or accelerator.

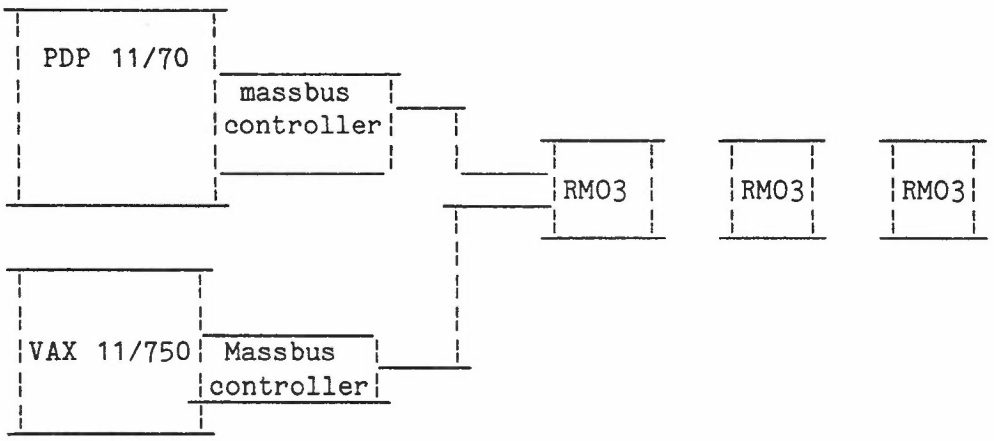
g. 800/1600 dual density tape deck (TE16 type). Fast eg Massbus interface.

h. Massbus.

i. Unibus.

j. Switching system to allow RM03 to be connected to either VAX or PDP 11 (see below).

## 2.2 RM03 Sharing System




a. It is required that the VAX 11/750 be able to share 3 RM03 disks with our existing PDP 11/70.

b. Equipment must be provided to allow the RM03s to be connected to either the VAX or the PDP 11.

c. Simultaneous access ie dual porting is not a requirement.

d. The minimum requirement is for a simple manual hardware switch to effect the changeover. Dynamic switching under software control would be desirable but is not a requirement.

e. Each RM03 should be capable of being independently switched.

## 2.3 Information Required

a. Please state the number of spare unibus slots available on the proposed system after installation of the peripheral equipment contained in this specification.

b. Please state what unibus expansion cabability could be provided as a future upgrade.

c. Please state what massbus expansion capability could be provided as a future upgrade.

d. Please state how 128 Mbytes of disk would be interfaced ie unibus, massbus, other.

e. Please state main memory expansion capability.

f. Please state cost of increment of main memory eg cost of upgrading 1 Mbyte CPU to 2 Mbytes.

## 3. MAINTENANCE

### 3.1 Response Level

a. At least 24 hour response is required.

b. Please quote for 24 hour response and 8 hour response.

### 3.2 Remote Diagnosis

a. Please state whether or not remote diagnosis is offered as part of the maintenance contract.

b. State what costs would be associated with its use.

## 4. SOFTWARE

### 4.1 User Software

a. The system will be used to run the Berkeley Unix operating system. The supplied system must therefore be capable of running this sytem. Please confirm that the proposed system has this capability.

b. The Berkeley Unix operating system will be supplied and maintained by RAL. Please confirm that this arrangement is agreeable to you, especially with respect to fault diagnosis and reporting.

### 4.2 Supplier Software

a. No normal operating system or user level software is required.

b. State what diagnostic software will be supplied.