Configuration
DIAB2450

Basic system

The basic system comprises:

- Mother board with
  - Processor and floating point processor M68040
  - Three SCSI ports
  - Four V24 asynchronous channels
- Power supply
- 3.5" diskette drive
- Expansion rack with four VME and two DataBoard slots
- D-NIX operating system for an unlimited number of users
- D-MENU, menu system and UNIX utilities

Use this configuration guide to select primary memory, mass storage, backup facilities and ports as required by the application.
System expansion

CPU expansion
The computer may be equipped with one more CPU plane in order to increase performance.

Memory expansion
The computer shall be equipped with sufficient primary memory. Memory modules are installed directly on the mother board.

Serial ports
The number of asynchronous channels can be expanded with terminal boards and/or terminal concentrators.

Terminal boards
The terminal board 4xV.24 is controlled directly by the main processor and handles four channels. The terminal board is installed directly on the mother board.

Terminal concentrators
The terminal concentrator 10xV.24 has ten channels and an onboard processor. The terminal concentrator thus does not load the main processor. The terminal concentrator occupies one VME slot.

Expansion via VME
The computer has a VME rack for flexible expansion of communication and network ports (ComC/KOM-KIT II), ports for terminals (see above) and for connection of a 1/2" tape station. The VME boards are installed from the back of the computer.

Backup units
Backup units are available in different versions, streamers, WORM, DAT, etc. The units are installed at the front of the computer.

Mass storage units
The computer should always be equipped with sufficient mass storage. Disk capacity can be expanded in steps. The hard disks are installed inside the computer.

Additional mass storage
Further mass storage and backup units can be housed in a separate SCSI-CABINET.

UPS
For maximum operating reliability, the computer should be operated with a UPS and power fail indicator.
Min/max configuration

The computer may be configured within these limits. However, certain units cannot be combined freely, see page 4.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Min configuration</th>
<th>Max configuration</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Primary memory</td>
<td>8 MB</td>
<td>128 MB</td>
</tr>
<tr>
<td>Serial ports</td>
<td>4</td>
<td>42</td>
</tr>
<tr>
<td>Com ports</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Network ports</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Mass storage</td>
<td>500 MB</td>
<td>5 000 MB</td>
</tr>
<tr>
<td>Backup units</td>
<td>0</td>
<td>3 600 MB</td>
</tr>
</tbody>
</table>

Recommendations

The graph below shows how the computer may be expanded with primary memory in different applications. The expansion, however, depends very much upon the number and types of users as well as applications running on the system.

A normal user is defined as an office automation package user while a heavy user is defined as a 4GL or database user.

![Graph showing CPU and MB expansion]

About the detail configuration...

Use the matrix on page 4 to configure the system. Cross out the units required in the actual system. At the same time, cross out expansion positions used. Please note the remarks regarding minimum numbers and the remarks regarding certain limitations in numbers and combinations.
Detail configuration

UNINTERRUPTIBLE POWER SUPPLY
- POWER FAILURE INDICATOR
  - 001-7365-00
  - 012-6055-00
- UPS 700
  - Select at least one basic system and UPS.

CPU EXPANSION
- CPU PLANE
  - 002-1149-04

MEMORY EXPANSION
- 32 MB
  - BIN 2040-24
  - BIN 2040-22
  - BIN 2040-21
  - BIN 2040-19
  - BIN 2040-17
- 64 MB
  - BIN 2040-24
  - BIN 2040-22
  - BIN 2040-21
  - BIN 2040-19
  - BIN 2040-17

SCSI
- SCSI/GARNET
  - (SEE SEPARATE CONFIG CHART)

EXPANSION, SERIAL PORTS
- TERMINAL BOARD 43/PK 48
  - 009-5172-00
  - 009-5302-00
- TERMINAL BOARD 43/PK 24
  - 009-5172-10
  - 009-5302-00

EXPANSION VIA VME
- TERMINAL CONN 10X24
  - BIN 2040-24
  - BIN 2040-22

MASS STORAGE UNITS
- EDU 500 MB
  - 001-7361-13
  - 001-7361-15
  - 001-7361-17
- EDU 1000 MB
  - 001-7361-13
  - 001-7361-15
  - 001-7361-17
- EDU 2000 MB
  - 001-7361-13
  - 001-7361-15
  - 001-7361-17

SELECT AT LEAST ONE UNIT.

5.25" DISKETTE DRIVE
- SEU 1.2 GB DAT
  - BIN 2040-24
  - BIN 2040-22
  - BIN 2040-21

3.5" DISKETTE DRIVE
- SEU 1.2 GB DAT
  - BIN 2040-24
  - BIN 2040-22
  - BIN 2040-21

*Must not be used as Boot device.

Select a maximum of 1 unit per line.

Select a minimum of 1 unit.
Select a maximum of 1 unit per line.

Select at least one basic system and UPS.
Configuration
SCSI-CABINET

The unit comprises:
- three slots for mass storage
- three slots for backup units
- power supply

Detail configuration

Select a maximum of 1 unit per line.
*Must not be used as Boot device

Select a maximum of 1 unit per line.
Note that EBU Video 8 occupies 2 positions.

DIAB Data
A Bull Company

Diab Data AB, Box 544, S-182 15 Danderyd, Sweden, Tel +46 8 622 44 22, Fax +46 8 622 42 23.
Diab Data Inc., 323 Vintage Park Drive, Foster City, CA 94404, USA, Tel +1 415 571-1700, Fax +1 415 571-9068.