Configuration
DIAB2470

Basic system

The basic system comprises:

- Mother board with
  - Two M68040 processors (with floating point processors)
  - Three SCSI ports
  - Two 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 two more CPU planes 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. Further mass storage and backup units can be housed in two separate SCSI-CABINETs.

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 can not 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>2</td>
<td>4</td>
</tr>
<tr>
<td>Primary memory</td>
<td>32 MB</td>
<td>512 MB (1024 MB)</td>
</tr>
<tr>
<td>Serial ports</td>
<td>2</td>
<td>40</td>
</tr>
<tr>
<td>Com ports</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Network ports</td>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>Mass storage, internal</td>
<td>500 MB</td>
<td>6 000 MB</td>
</tr>
<tr>
<td>(incl. SCSI-CABINETs)</td>
<td>500 MB</td>
<td>18 000 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.

![Graph showing memory expansion](image)

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 FAIL INDICATOR**
  - 001-7200-00
  - 012-8035-00
- **UPS 700**
  - Select at least one basic system and UPS.

**CPU EXPANSION**
- **CPU PLANE**
  - 002-1142-01
  - 002-1142-31
- **CPU PLANE**
  - Select a maximum of 2 units.

**MEMORY EXPANSION**
- **128 MB**
  - 002-2043-00
  - 002-2044-22
  - 002-2044-21
- **64 MB**
  - 002-2043-00
  - 002-2044-22
  - 002-2044-21
- **32 MB**
  - 002-2043-00
  - 002-2044-22
  - 002-2044-21
- **MEMORY POSITION**
  - 002-2043-00
  - 002-2044-22
  - 002-2044-21

**SCSI**
- **SCSI CARNET SEE SEPARATE CONFIG CHART**
- **SCSI CARNET SEE SEPARATE CONFIG CHART**
- A maximum of 6 mass storage units and/or backup units can be installed using two SCSI-CABINETs.

**EXPANSION, SERIAL PORTS**
- **TERMINAL BOARD OPTO 2XV24**
  - 002-5202-00
  - **TERMINAL BOARD OPTO 2XV24**
  - 002-5202-00

**EXPANSION VIA VME**
- **COM-KIT II SEE ComC**
  - TERMINAL CONC 10XV24
  - 001-7361-15
  - 001-7361-15
  - 001-7361-15
  - **TERMINAL CONC 10XV24**
  - 001-7361-15
  - 001-7361-15
  - **1/2" TAPE STATION**
  - 012-7104-09
  - 012-7104-09

**MASS STORAGE UNITS**
- **EDU 500 MB**
  - 001-7361-13
  - **EDU 1000 MB**
  - 001-7361-15
  - **EDU 2006 MB**
  - 001-7361-17

**3.5" DISKETTE DRIVE**
- **EDU 1.2 GB DAT**
  - 001-7365-00
  - **EDU 1.2 GB DAT**
  - 001-7365-00
  - **EDU 1.2 GB DAT**
  - 001-7365-00

**5.25" DISKETTE DRIVE**
- **EDU STREAMER**
  - 001-7362-XX
  - **EDU Streamer**
  - 001-7362-XX

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

**Backup POSITION**
- **5.25" DISKETTE DRIVE**
  - 001-7360-00
  - 001-7360-00
  - 001-7360-00

Select a maximum of 1 unit per line.
Note that EBU Video 8 occupies 2 positions.
The unit comprises:
- three slots for mass storage
- three slots for backup units
- power supply

**Detail configuration**

<table>
<thead>
<tr>
<th>Mass Storage Units</th>
<th>Backup Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDU 500 MB 001-7361-13</td>
<td>EBU Video 8 001-7364-XX</td>
</tr>
<tr>
<td>EDU 1000 MB 001-7361-15</td>
<td>EBU 1.2 GB DAT 001-7365-00</td>
</tr>
<tr>
<td>EDU 2000 MB 001-7361-17</td>
<td>EBU 1.2 GB DAT 001-7365-00</td>
</tr>
</tbody>
</table>

A maximum of 6 mass storage units and/or backup units can be installed using two SCSI-CABINETs.

Select a maximum of 1 unit per line.

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