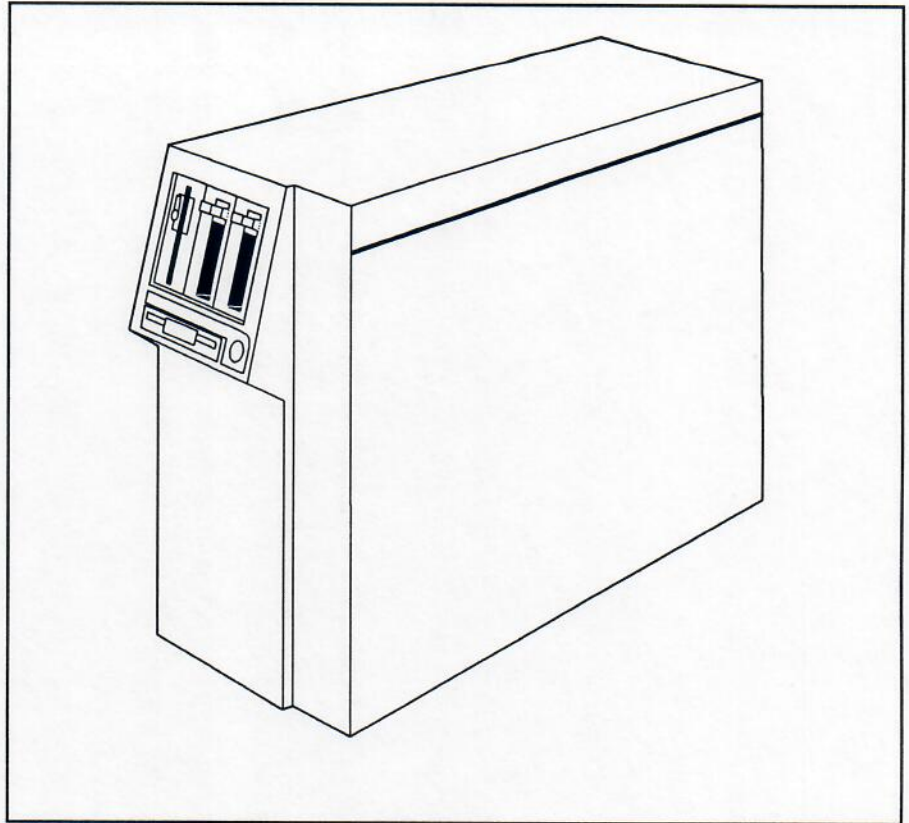# Configuration
DIAB2450

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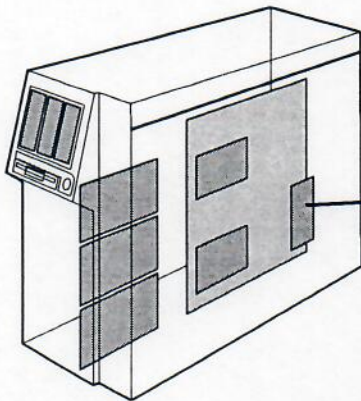
System expansion
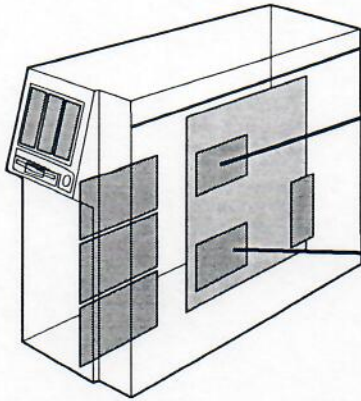
CPU expansion
The computer may be equipped with one more CPU plane in order to increase performance.

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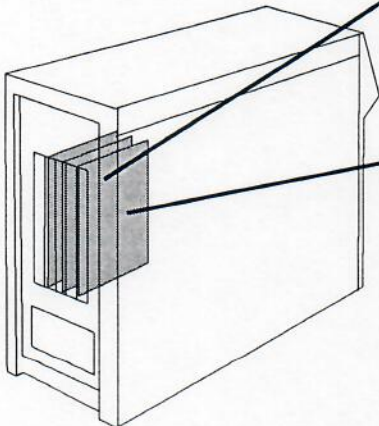
Expansion via VME
The computer has a VME rack for flexible expansion of communication and network ports (ComC/KOM-KIT II), ports for terminals (see above) and for connection of a 1/2" tape station. The VME boards are installed from the back of the computer.

Backup units
Backup units are available in different versions, streamers, WORM, DAT, etc. The units are installed at the front of the computer.
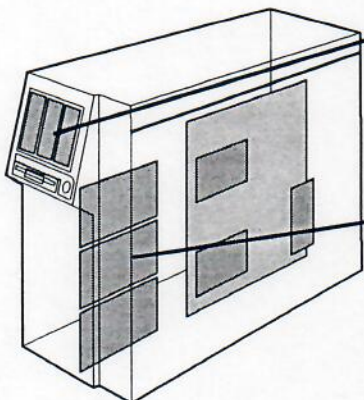
Mass storage units
The computer should always be equipped with sufficient mass storage. Disk capacity can be expanded in steps. The hard disks are installed inside the computer.

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 can not be combined freely, see page 4.

Parameter	Min configuration	Max configuration
CPU	1	2
Primary memory	8 MB	128 MB
Serial ports	4	42
Com ports	0	4
Network ports	0	2
Mass storage	500 MB	5 000 MB
Backup units	0	3 600 MB

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.

Normal users
(heavy users)
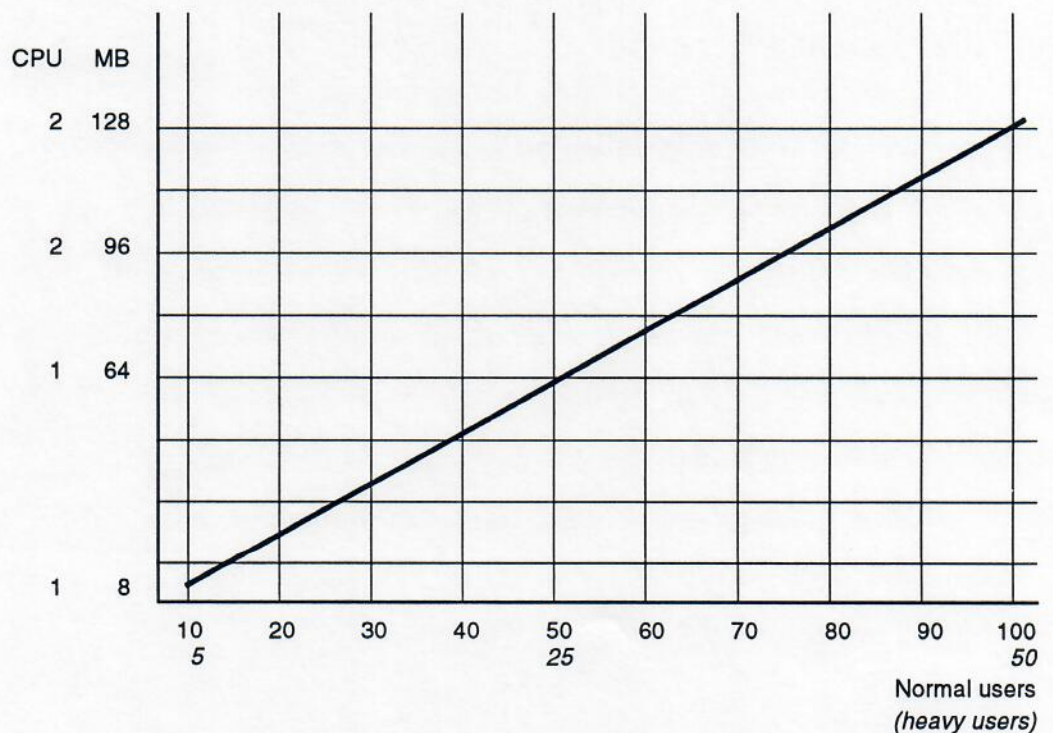
About the detail configuration...

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

| BASIC SYSTEM 001-7355-20 | | | |

UNINTERRUPTIBLE POWER SUPPLY

| POWER FAIL INDICATOR 001-7269-00 | UPS700 012-9055-00 | Select at least one basic system and UPS. |

STD	EXPANSION
CPU	CPU POSITION

CPU EXPANSION

| CPU PLANE 002-1140-34 |

MEMORY EXPANSION

MEMORY POSITION

| 32 MB 002-2040-24 | 16 MB 002-2040-22 | 8 MB 002-2040-21 | Select a minimum of 1 unit. Select a maximum of 1 unit per line. |

MEMORY POSITION

| 32 MB 002-2040-24 | 16 MB 002-2040-22 | 8 MB 002-2040-21 |

MEMORY POSITION

| 32 MB 002-2040-24 | 16 MB 002-2040-22 | 8 MB 002-2040-21 |

MEMORY POSITION

| 32 MB 002-2040-24 | 16 MB 002-2040-22 | 8 MB 002-2040-21 |

SCSI

| SCSI PORT |

| SCSI-CABINET (SEE SEPARATE CONFIG CHART) |

EXPANSION, SERIAL PORTS

| OPTO PORTS 4XV24 | TERMINAL BOARD POSITION |

| TERMINAL BOARD 4XV24 002-5172-10 | TERMINAL BOARD OPTO 4XV24 002-5262-00 | Select a maximum of 1 unit per line. |

TERMINAL BOARD POSITION

| TERMINAL BOARD 4XV24 002-5172-10 | TERMINAL BOARD OPTO 4XV24 002-5262-00 |

EXPANSION VIA VME

VME POSITION

| KOM-KIT II SEE ComC | TERMINAL CONC 10XV24 001-7370-00 | Select a minimum of 1 unit. Note that the number of terminal concentrators is limited to 3. |

VME POSITION

| KOM-KIT II SEE ComC | TERMINAL CONC 10XV24 001-7370-00 |

VME POSITION

| TERMINAL CONC 10XV24 001-7370-00 |

VME-POSITION

| TERMINAL CONC 10XV24 001-7370-00 | 1/2" TAPE STATION 012-7104-0X 012-7114-00 |

MASS STORAGE UNITS

MASS STORAGE POSITION

| EDU 500 MB 001-7361-13 | EDU 1000 MB 001-7361-15 | EDU* 2000 MB 001-7361-17 | Select a minimum of 1 unit. Select a maximum of 1 unit per line. |

MASS STORAGE POSITION

| EDU 500 MB 001-7361-13 | EDU 1000 MB 001-7361-15 | EDU* 2000 MB 001-7361-17 | *Must not be used as Boot device |

MASS STORAGE POSITION

| EDU 500 MB 001-7361-13 | EDU 1000 MB 001-7361-15 | EDU* 2000 MB 001-7361-17 |

| 3.5" DISKETTE DRIVE | BACKUP POSITION |

| EBU VIDEO 8 001-7364-XX | EBU 1.2 GB DAT 001-7365-00 | EWU OPTICAL DISK 001-7363-00 | ESU STREAMER 001-7362-XX | Select a maximum of 1 unit per line. Note that EBU Video 8 occupies 2 positions. |

BACKUP POSITION

| | EBU 1.2 GB DAT 001-7365-00 | EWU OPTICAL DISK 001-7363-00 | ESU STREAMER 001-7362-XX |

BACKUP POSITION

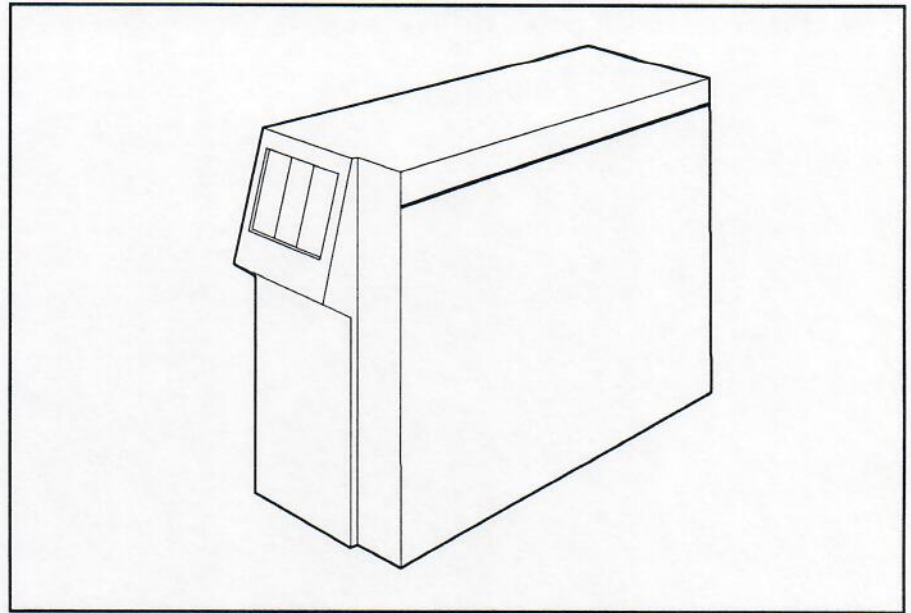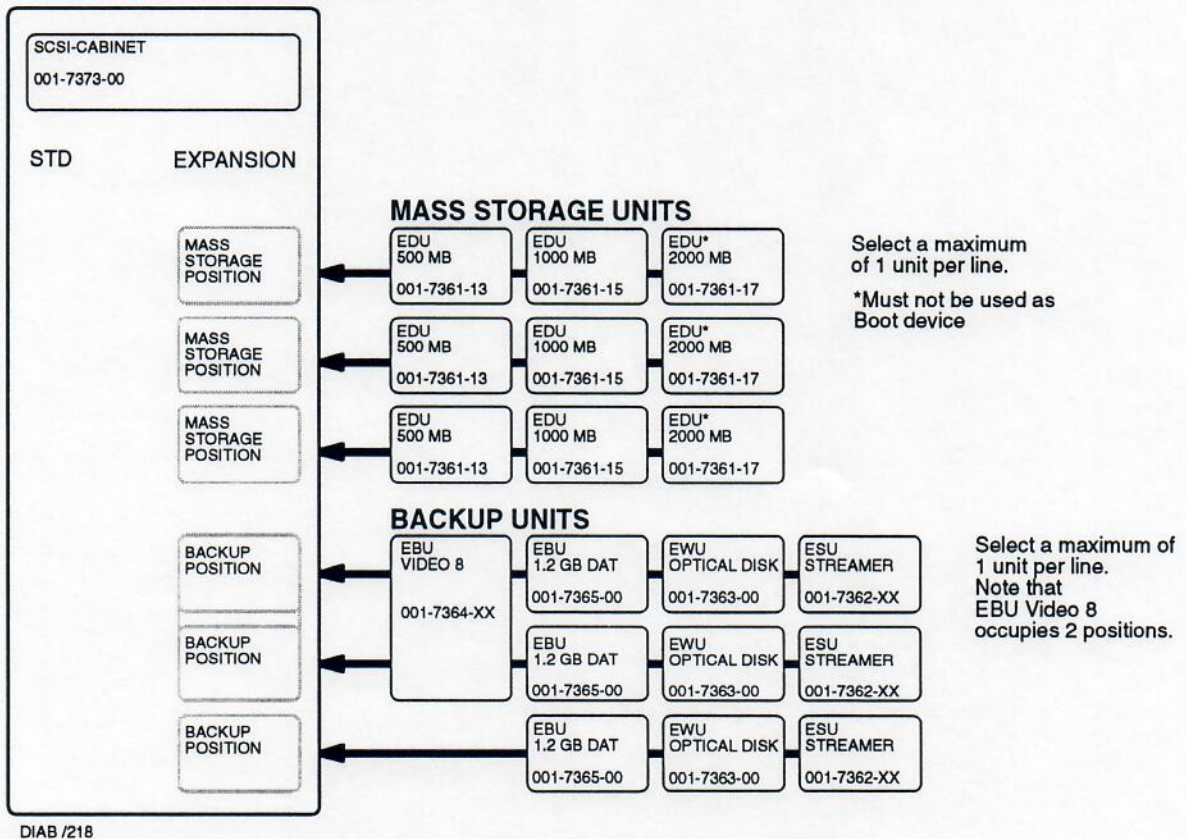| 5.25" DISKETTE DRIVE 001-7360-00 | EBU 1.2 GB DAT 001-7365-00 | EWU OPTICAL DISK 001-7363-00 | ESU STREAMER 001-7362-XX |

Configuration
SCSI-CABINET

The unit comprises:

• three slots for mass storage
• three slots for backup units
• power supply

Detail configuration

SCSI-CABINET
001-7373-00

STD   EXPANSION

MASS STORAGE UNITS

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

Select a maximum of 1 unit per line.

*Must not be used as Boot device

BACKUP UNITS

BACKUP POSITION	EBU VIDEO 8 001-7364-XX	EBU 1.2 GB DAT 001-7365-00	EWU OPTICAL DISK 001-7363-00	ESU STREAMER 001-7362-XX
BACKUP POSITION		EBU 1.2 GB DAT 001-7365-00	EWU OPTICAL DISK 001-7363-00	ESU STREAMER 001-7362-XX
BACKUP POSITION		EBU 1.2 GB DAT 001-7365-00	EWU OPTICAL DISK 001-7363-00	ESU STREAMER 001-7362-XX

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

DIAB /218

DIAB DATA
A Bull Company

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SCSI-RACK – CONFIGURATION. 323   1