



MIRA

Packaged systems on basis of

Micro-PDP and Micro-VAX

for control of critical operations.

Approaches to High availability

- ***Master/standby***
Fully duplicated independent Configurations.
- ***Non-stop***

Approaches to High availability

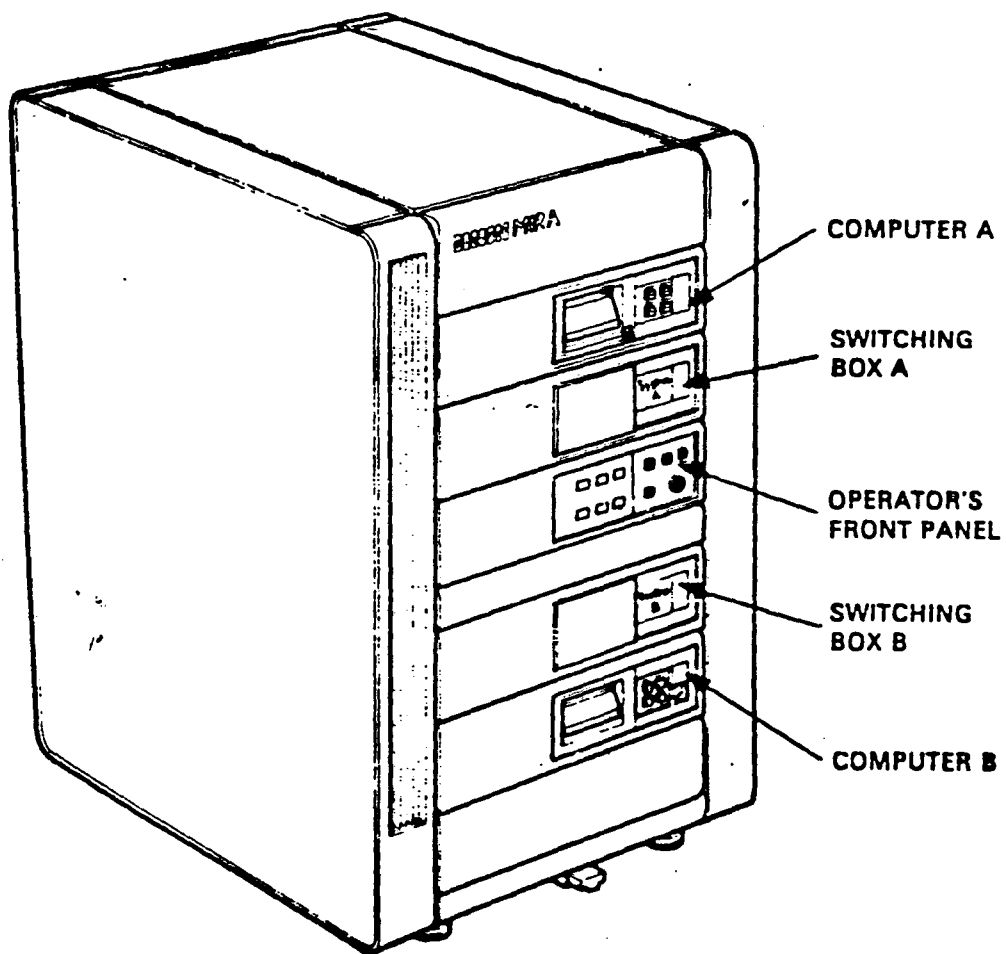
Master/standby

- **Cold standby:**
 - **Manual/automatic line switching.**
 - **Standby update and restart under operator control.**
 - **Significant break in service.**
- **Warm standby:**
 - **Automatic line switching.**
 - **Automatic restart.**
 - **Automatic standby updating.**
 - **Short break in service.**
- **Hot standby:**
 - **Automatic standby updating/line splitting.**
 - **Parallel processing on master and standby.**
 - **Automatic line switching.**
 - **Automatic restart.**
 - **No evident break in service.**

Approaches to High availability

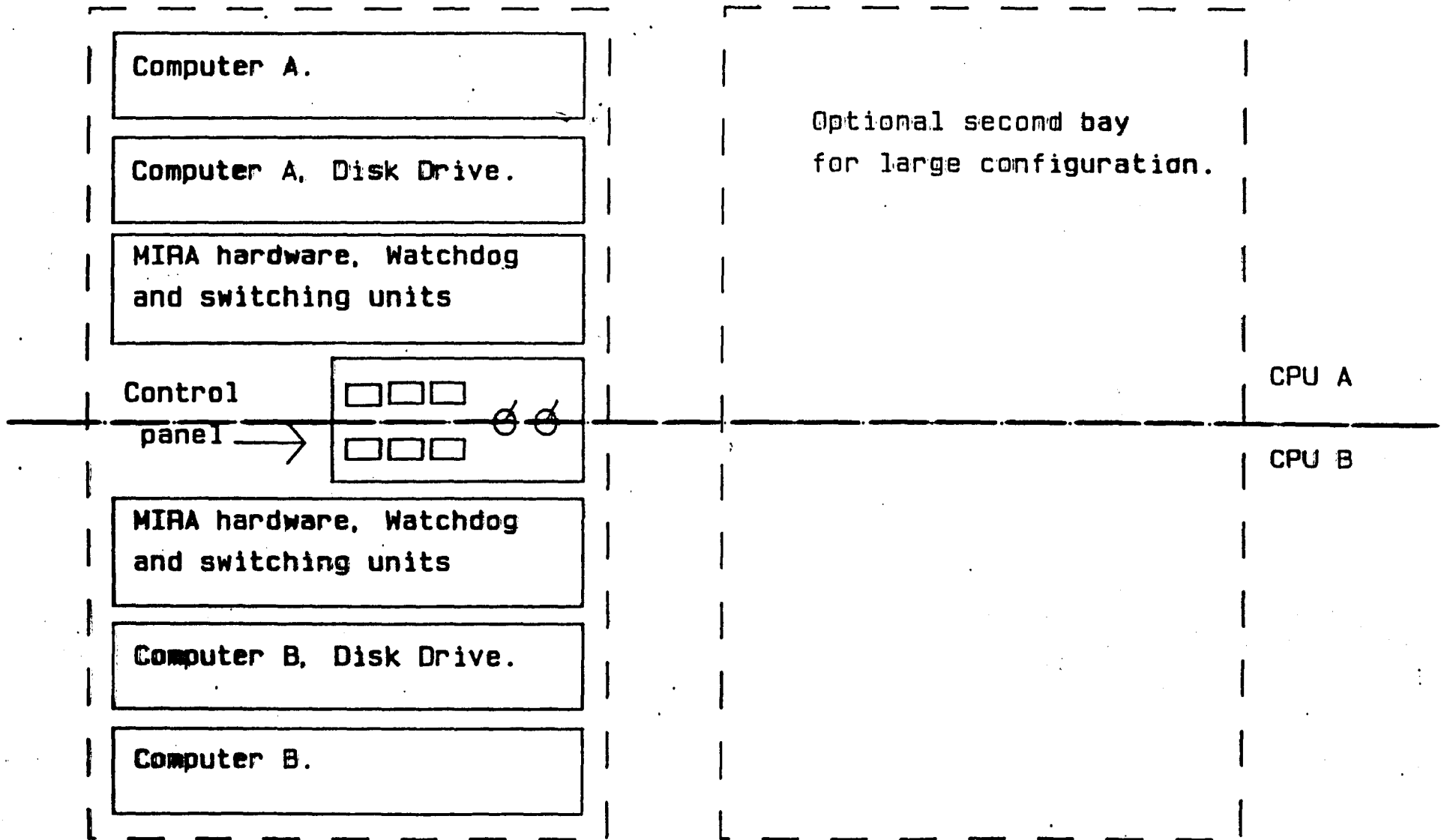
Non-stop

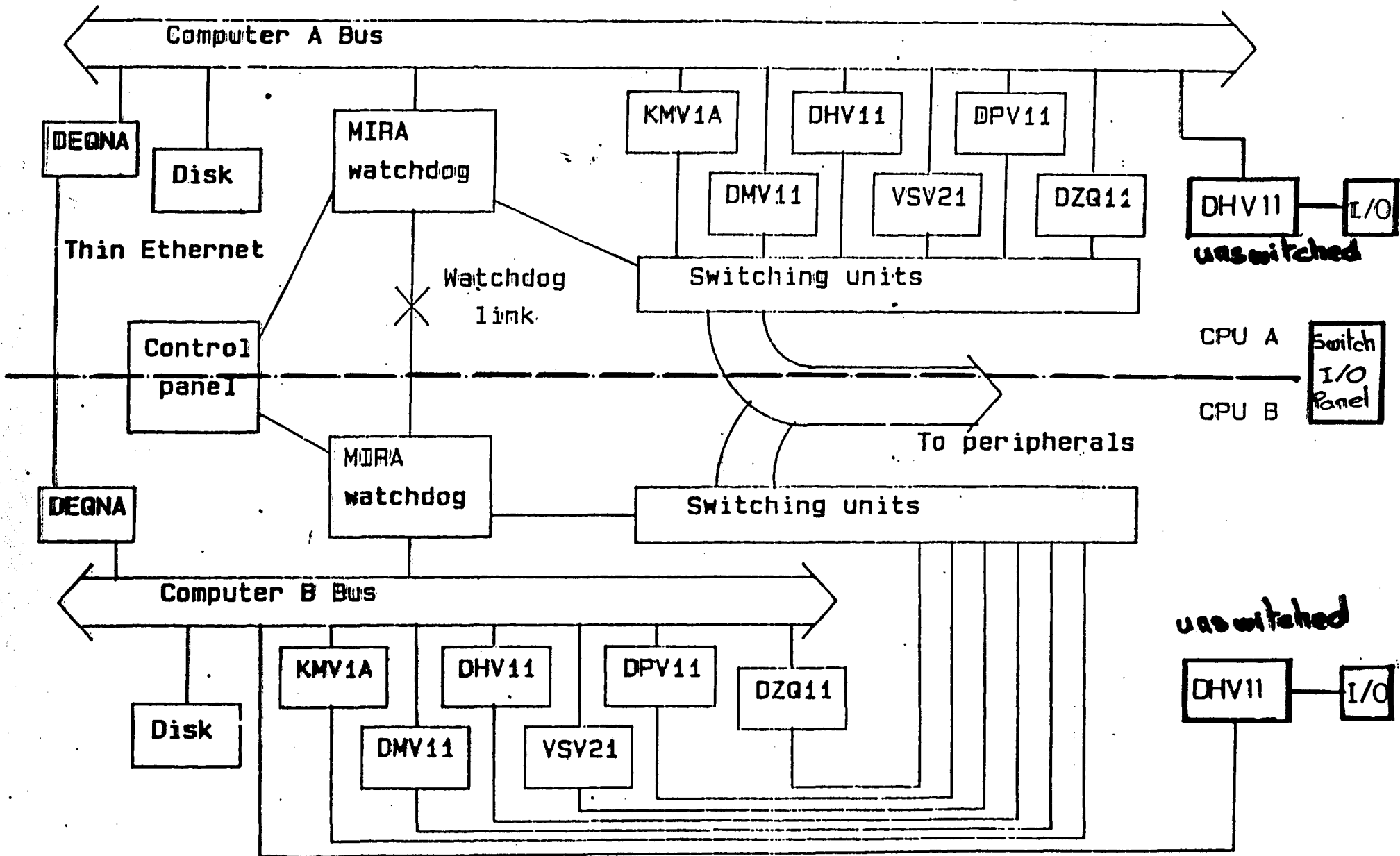
- **Transparent failure detection/recovery.**
- **Duplication at component level.**
- **High end solution.**



Small MIRA Configuration

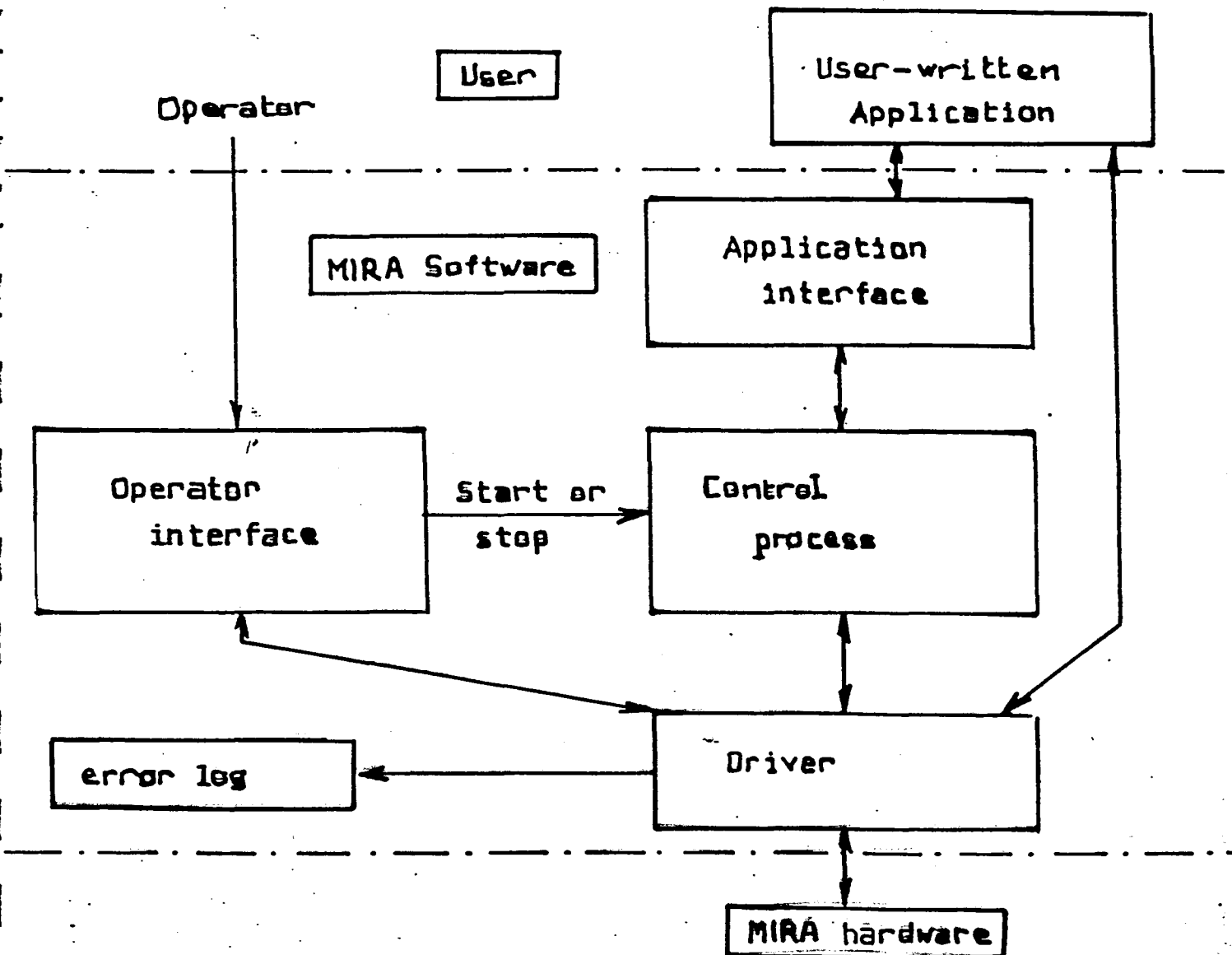
Hardware overview.





MIRA Software components (continued)

The inter-relationships between the MIRA software components can be viewed in the following way:



MIRA summary:

- **Master/Standby approach to high availability.**
- **Duplicated MicroPDP or MicroVAX configurations.
Proc.: LSI 11/83 , Micro-Vax 2 or Micro-VAX 3500.**
- **Switches standard interfaces.
Synchronous and asynchronous.**
- **Layered software and ethernet for simple user
application development.**

Next month addition of Volume Shadowing.