

DESIGN OF AN ADVANCED MICRO COMPUTER

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The architectures of most of the available microprocessors have been studied to ascertain their suitability for use in the proposed advanced micro computer which will give added benefits in the university environment.

The SCC 68070 is selected on the basis of its memory management, direct memory access and bus arbitration circuitry. In addition it has a serial data bus. These are integrated on the chip.

This highly integrated microprocessor chip will result in a simplified micro-computer architecture and will enhance modular design concepts. Special consideration is given to incorporation of networking facilities and of an Unix type operating system.

References

1. Philips User Manual PCB 68070 1985
2. Intel Microsystem Components Handbook. 1984
3. Motorola Reference Manual MC 68000