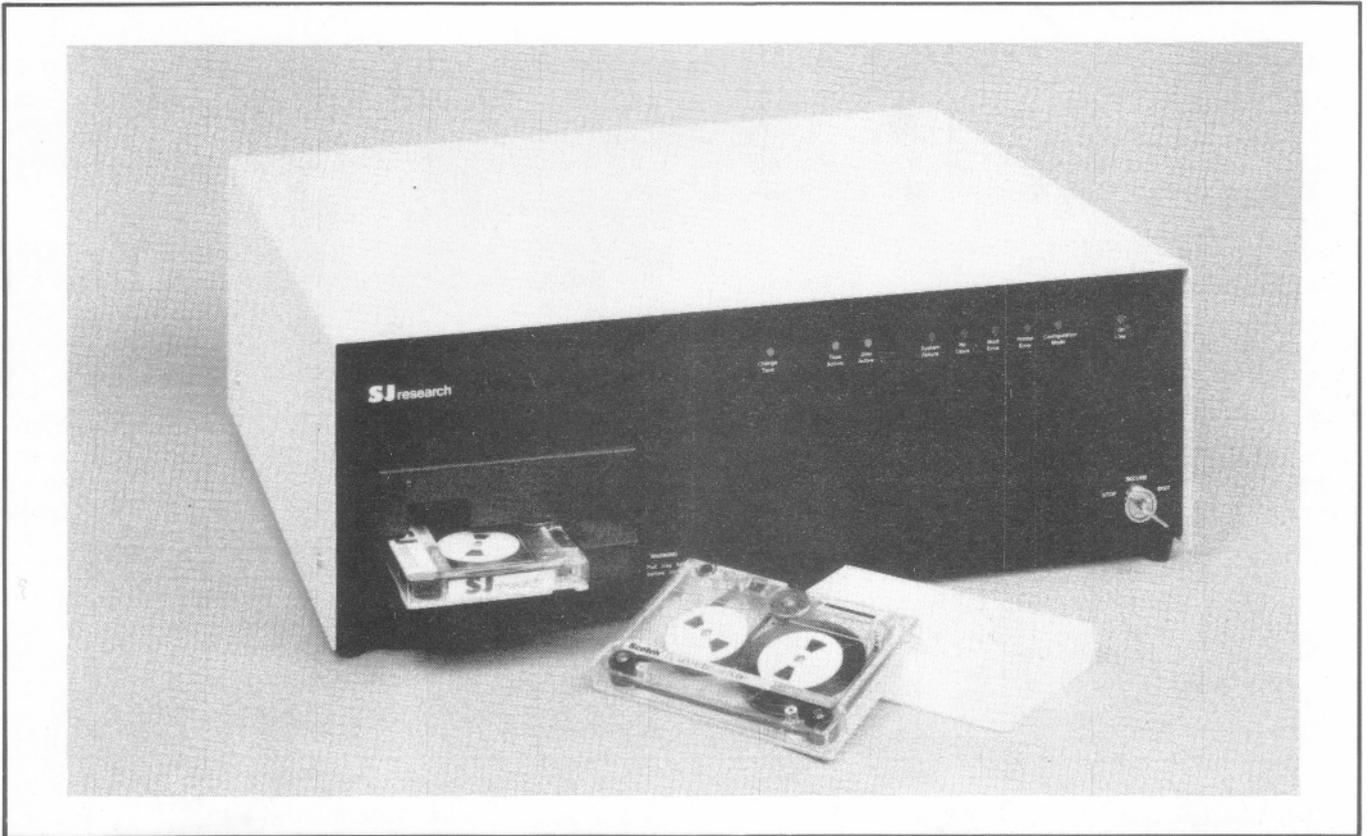


Econet[®] Hard Disc File Server



- Full Econet Level 2 File Server with extra facilities
- Standard Disc Data Capacity of 20 Megabytes - options up to 80 Megabytes
- On-line tape backup unit with 20 Megabyte capacity.
- Built-in printer server with two independent printer channels
- Built-in real-time clock with time, date and day of week available to clients
- Files automatically dated and time-stamped when saved or updated
- Disc space accounting system allows disc space limits to be set for each user, encouraging users to delete unwanted files
- Flexible file access management allowing shared ownership if required
- Multi-threaded software and parallel processing give high efficiency
- Purpose-designed multi-processor hardware
- 256 kilobyte cache memory speeds up file access

Ready to Use

The File Server is a self-contained unit which comes ready to plug in to your Network and use immediately. We will also configure the system to your special requirements.

Hierarchical Directories

All directory entries can either be files or sub-directories. This "tree" structure makes it easy to set up a logical and manageable directory hierarchy. Any user can select any directory to which he has access rights.

Wild Cards

Two "wild" characters may be specified in file names; "*" matches on any number of characters, "#" matches on exactly one character. Wild characters can be used in rename too, for example "RENAME SJ#res* AB#test" will turn "SJ-res 1" into "AB-test1" and "SJZres24" into "ABZtest24"

Random Access

Full access to data files is supported, allowing use of BPUT and BGET functions in BASIC and supporting most "legal" Word Processing programs.

Users

Any number of individual users may be registered on the system, each with their own password and default options. When a user logs-on, his default directory will be selected. This may be any directory on the disc.

Accounts

There are 256 possible accounts. Each account has a maximum disc allocation, preventing any user from occupying an unreasonable proportion of the disc. Each user can be allocated "owner" access rights to any combination of the accounts.

Privacy

Files and directories can be made invisible to non-owners, giving a high level of security.

Printing

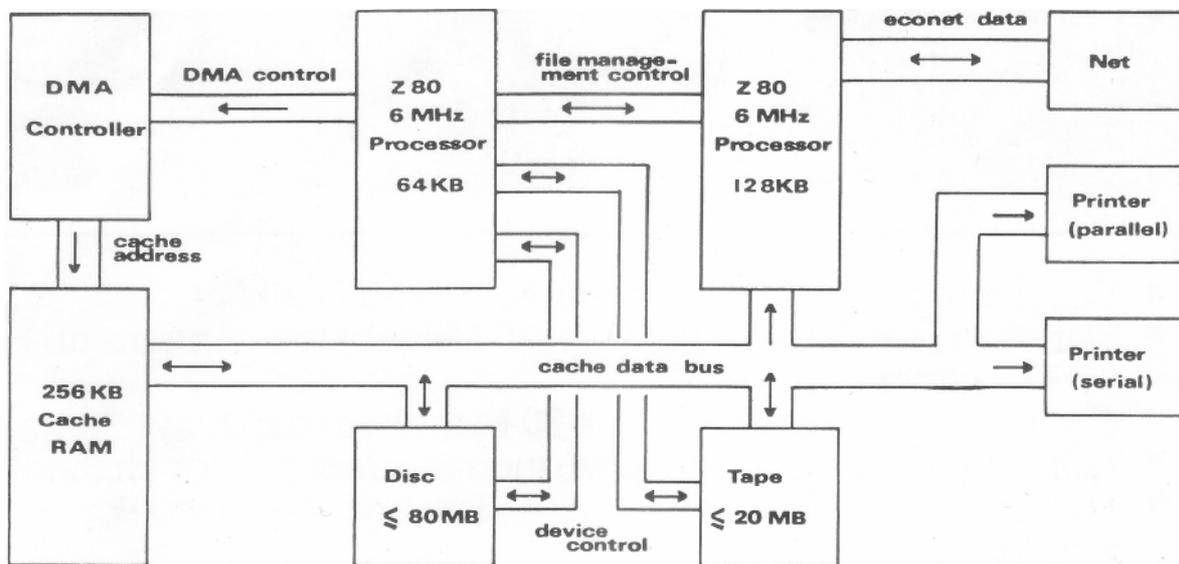
Built-in Printer Server software supports two completely independent printer output streams: one serial (RS232) and one Centronics standard parallel. The ability to queue printer output is available.

Default Options

A wide degree of flexibility is available for individual users to set the options selected when they log-on. This will include the choice of library directory, accounting information, auto-boot action and root directory.

System Management

Privileged operations, such as adding or removing users, are done by logging on to the system with a special user identifier and password. A key-switch is fitted to the file server and this must be in the "System" position to enable all such operations.



How it works

The File Server has a dual processor architecture, and a completely separate Cache Memory Bus. A 6MHz Z80 looks after the Network interface and the high level File Server code, which is written in Pascal for ease of maintenance and expandability. A 6MHz Z80 manages the Cache allocation, disc accesses, printing and back-up to tape. Direct Memory Access circuitry handles the data flow to and from the Cache memory, under the control of a Z80. The whole machine has been designed to allow very high data transfer rates, with the aim of servicing client requests as fast as possible.

All SJ Research Econet products are fully compatible with the latest Acorn version 3 network standards — and with each other. Any mixture of SJ and Acorn products (including the BBC microcomputer) can be used. SJ Research has a policy of continuing improvements, and we are always ready to listen to suggestions for better ways of doing things. For this reason, all information in this document is provisional and is liable to alteration without notice.

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SJ research

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