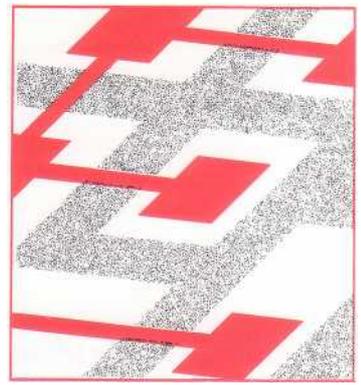# FILESTORE

NETWORKED DATA STORAGE

Acorn's new Filestore system offers efficient, economical, and expandable shared data storage and printer connection for networked microcomputers. Working in conjunction with the proven Econet system, the Filestore E01S base unit can act as the core unit of a new network, or plug straight into an existing network to provide extra capacity. Mass data storage on hard disc is provided by connecting Filestore E40S or E60S units, which can be added as demand for storage capacity grows.

FILESTORE E01S FLOPPY DISC UNIT

The base unit of the new Filestore system is the E01S, which incorporates two floppy disc drives and the controller for data flow to and from the network and printer. The Filestore E01S base unit allows each microcomputer connected to the network to:

• Make use of a single copy of software on disc.

• Access data stored centrally on disc.

• Store their own individual files on disc, without having disc drives attached to each computer.

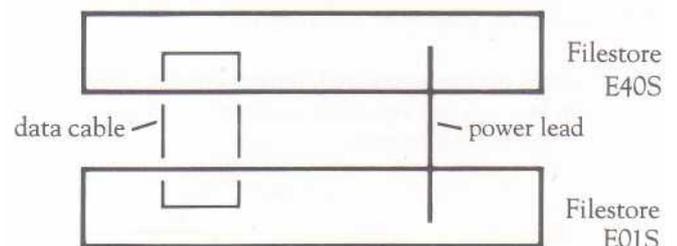• Share a printer connected to the Filestore unit.

The Filestore E01S is a compact, self-contained unit which includes software for controlling data flow between the network, the disc drives and the printer. With a Filestore E01S unit installed, the network does not need a microcomputer to be used as fileserver.

FILESTORE E40S AND E60S

Large capacity data and software storage for Econet networks is provided by the new Filestore E40S and E60S hard disc drive units. Providing a full 40 megabytes and 60 megabytes of storage respectively, Filestore E40S and E60S units provide these benefits for Econet users:

• Huge data storage capacity to meet the needs of today's data-intensive applications such as painting programs.

• All software and files available at all times without disc swapping.

• Faster reading and writing than floppy discs, allowing more users on a network and quicker response times.

Filestore E40S and E60S hard disc users connect to the network via a Filestore E01S base unit which controls the data flow. A hard disc unit is joined to the E01S base unit piggy-back style by plugging in the interconnecting data cable and power lead supplied.

FILESTORE IN A NEW ECONET NETWORK

The Filestore E01S forms the core unit of a new Econet system. For installations where the length of cable does not exceed 500 metres, the Filestore provides all the necessary control. Installing a new Econet system is quick and straightforward:

1. Fix or lay the cables around the room(s), arranging plug-in sockets in the places required.

2. Plug an Econet terminator unit onto each end of the network cable, and if the cable length exceeds 10 metres, plug an Econet clock unit into a socket near the centre of the network. All these parts are included in the Econet starter kit.

3. Plug a Filestore E01S base unit into any Econet socket. Any type of microcomputer fitted with an Econet module can then be plugged into the network.

The system is immediately made operational using software included with the Filestore E01S.
Larger systems are built up from a number of the systems described, linked together by Econet Bridge units.

Acorn
The choice of experience.

FILESTORE IN AN EXISTING ECONET NETWORK

The data storage capacity of an existing Econet system can be increased by simply plugging in a Filestore E01S base unit into any socket.

No rearrangement of existing hardware is necessary but Level Three servers can be left attached and the new Filestore with its extension units can be used to increase the available storage.

The Filestore E01S can be used to replace level two or level one type servers and the microcomputer which was acting as a fileserver is now available for normal use.

EXPANDING DATA STORAGE WITH FILESTORE UNITS

Filestore E01S base unit provides two floppy disc drives for data storage, and acts as controller for hard disc drives in the Filestore E40S and E60S units connected to it.

The E01S base unit can be used alone, providing 1.6 mbytes of storage at any time (two 800 KB floppy discs). Large capacity data storage is achieved by plugging a Filestore E40S or E60S into the E01S base unit, adding 40 or 60 mbytes.

If additional storage is required, further Filestore E40S and E60S units can be piggy-backed, up to a maximum of four hard disc units on one E01S base unit.

Stacking Filestore units in this way allows up to 240 mbytes of hard disc data storage, plus two 800 kbyte floppy disc drives, to be available to all users of the network. If yet more storage capacity is required, another Filestore E01S base unit is simply plugged into an Econet socket, and another stack can be built up.

EXPANDING THE NUMBER OF USERS

A Filestore E01S base unit allows up to 80 users to be logged on simultaneously. The practical limit depends upon whether all users need access to the data storage at the same time. As an indication, up to twenty users are likely to be served satisfactorily by one E01S unit. As more users are added, the average time taken to load or save files increases.

Additional Filestore E01S base units can be connected by simply plugging them into Econet sockets. As more data storage is connected by stacking Filestore E40S and E60S units, the advantages of using additional E01S base units can be assessed according to the response times found in practice.

TECHNICAL SPECIFICATIONS

Filestore E01S

Econet connection port.

Two 3½" floppy disc drives, each 800 kbyte (formatted) capacity.

Parallel printer port.

Filestore interconnection port and mains output socket for E40S or E60S.

File- and printer-server software.

Filestore E40S and E60S

Built-in hard (`Winchester') disc drive:
— 40 mbyte formatted capacity (E40S)
— 60 mbyte formatted capacity (E60S)

Filestore interconnection cable and mains input cable.

Filestore interconnection port and mains output socket for additional E40S and E60S.

File-server software.