

2 disc  
special issue

The best-selling Acorn magazine in the world

# ACORN USER

Essential for all users of 32-bit RISC OS computers

## Interactive TV at home...

DECEMBER 1995  
**ACORN USER** Cover disc 1

NEW  
**The Big Picture**

Try out all the features of Longman Logotron's new painting package



CHECKED • VIRUS CHECKED • VIRUS CHECKED • VIRUS CHECKED • VIRUS CHE

DECEMBER 1995  
**ACORN USER** Cover disc 2

NEW  
**Spobbleoid Fantasy**

12 exclusive levels of the new game from Fourth Dimension

Elite cheats and enhancements

**Plus** all our regular items

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... we talk to a family using Online Media's new technology

- Four Internet packages
- Acorn's future – the facts
- Graphics fun with your Arc
- Software for dyslexics
- ARM 700 upgrade reviewed
- Skillware and Thames Water
- All the latest news

IDG MEDIA

DECEMBER 1995 Issue 162

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1.22 >

£3.75

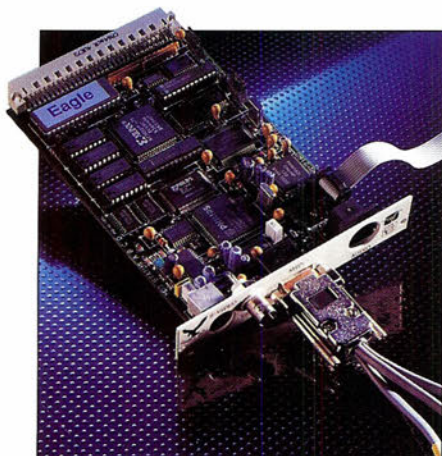
# MAKE THE MOST OF MULTI-MEDIA

Are you wondering how to make the most of the multimedia resources available to you — scanned images (drawings or photos etc), video clips, music and sound samples, Replay movies, MPEG video clips or movies, teletext.....?

Computer Concepts offer a range of related products that can help you produce your own sound and video productions; all the hardware and software you need to input, manipulate and output stills, video and sound.



The ultimate multimedia expansion card — combining the functionality of a high quality (24bit) video digitiser with real time digital movie capture facilities, stereo sound sampling and playback, plus MIDI. All the software you will need to manipulate the captured data is included in the package — TakeTwo for video manipulation, ScanLight for grabbing and manipulating still images, AudioWorks for manipulating audio samples and generating audio effects and !AudioCtrl provides mixing facilities. The card is also sold with real time video movie compression software from Eidos, which considerably speeds up and simplifies the process of movie generation. The video files you create can be played back using Acorn Replay. Suitable for any Acorn RISC computer except 3000/4000 series, requires 2MBytes RAM and RISC OS 3.1 or later (4MBytes, an ARM3 and a high data rate IDE or SCSI hard drive for movie recording and sound output).



An optional extra is the latest release from Eidos — their Eidoscope video editing software, which can be used to edit movies created on an Eagle card and includes many professional video editing tools.



Price: Eagle card with Eidos compression software: £329 + £6 p&p + VAT (£386.57 inc.) Eagle card with Eidoscope: £449 + £6 p&p + VAT (£534.62 inc.) Eidoscope for existing Eagle owners: £169 + VAT (£198.57 inc.)

Acorn  
Replay



A 16 bit audio sampling and play back expansion card. Features include stereo line-level input and output, MIDI connection and software support. A copy of AudioWorks is included to handle the capture, manipulation and playback of samples and a copy of !AudioCtrl which controls the Lark's sampling options (for example sampling to memory or disc, continuous or single shot sampling, background or foreground sampling and setting of sample rates and formats). Suitable for any Acorn RISC computer except 3000/4000 series, requires 2MByte and RISC OS 3.1 or later.  
Price: £149 + £6 p&p + VAT (£182.12 inc.)



## MidiMax Card

An expansion card designed to provide a stand alone MIDI solution at an affordable price. A 16 byte memory buffer is included on the card for both transmit, and receive which means no data is lost even when the MIDI interface is transmitting at maximum rate. Standard MIDI In, Out and Thru connectors are provided, with the added benefit of a second Out connector to ease the interfacing of multiple devices. MidiMax is supplied with the same MIDI support software as the Eagle M2 and offers full compatibility with Acorn MIDI implementation. Suitable for any Acorn RISC computer except 3000/4000 series, requires 1MByte and RISC OS 3.1 or later.

Price: £69 + £6 p&p + VAT (£88.12 inc.)

IN THE

# ACORN WORLD



Combining the ScanLight 256 scanner (400 dpi, 256 grey levels) and GreyHawk digitiser. The digitiser offers real time greyscale video digitising from any video source. Includes the ultra-fast 'TakeOne' previewer, allowing live video in a window on the desktop — at quarter screen size this can update at 50 frames per second, far faster than any other digitiser. ScanLight software provides image enhancement of captured images, such as smoothing,



rotation, cropping, sharpening. Suitable for all models of Acorn RISC computer with 2MBytes.

Computer Concepts offer a range of other colour and greyscale scanners and digitisers — please ask for further details.

**Price: £189 + VAT (£222.07 inc.)**



The MPEG card allows full screen, full motion MPEG videos to be played back at better than VHS quality, with CD quality stereo sound tracks. MPEG videos can be played from hard disc or MPEG compatible CD ROM drives. Any Video CD format CDs are suitable (feature films, music videos etc) as are multimedia CDs that include MPEG clips. Any application that can display Replay movies can play MPEG movies. The software provides video type control over the movie eg fast forward, pause etc. Any frame can be

*Computer Concepts have other products in their range which can also be used in this field — for example a range of video genlocks, colour digitisers and flatbed scanners, the ColourCard graphics accelerator card and many more. Please ask for our Product Guide.*

captured as a 24 bit full colour sprite. Requires a Risc PC with 4MBytes and a suitable RGB monitor or TV capable of 50Hz PAL modes.

**Price: £249 + £6 p&p + VAT (£299.62 inc.)**



TV tuner comes in two forms; a tuner only device which allows live TV to be displayed, either through connection to a video composite compatible monitor or in a window on the desktop in machines that have a digitiser installed. The user can scan the frequency range, set up frequency pre-sets and select channels. The second option with Teletext software can access and display all the pages available on Teletext, select Teletext or Fastext pages, decode foreign teletext and save pages out as either text or sprite files. Suitable for any Acorn RISC computer except 3000/4000 series, requires 2MBytes and RISC OS 3.1 or later.

**Price: TV Tuner only £89 + £6 p&p + VAT (£111.62 inc.)  
TV Tuner + Teletext software £159 + £6 p&p + VAT (£193.87 inc.)**

## Pioneer 602X CD Rom drive

Many multimedia resources are supplied on CD, so Computer Concepts also include a CD ROM drive in their range. The Pioneer DRM-602X is a double speed (300 kilobytes per second transfer rate), 6 disc CD ROM drive. Multi session PhotoCD compatible. It can also be used for standard audio compact discs. ArtWorks clip-art CD disc included. Suitable for any model of Acorn RISC computer, requires 2MBytes and a fully Acorn compatible SCSI card with CDFS 2.2.

**RRP: £499.00 + £10 p&p + VAT (£539.32 inc.)**



Computer Concepts Ltd

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## Editor's letter

Online Media: we've all heard the name, but how many of us actually *know* what's going on at Acorn's old premises in Ditton House? Well, now you can find out, thanks to our three-part series on Acorn's new venture. Later articles will focus on the technology involved – this month we meet one of the families who's actually using the system and find out what they think of it.

With the theme of the Acorn World show being the Internet, we could hardly let it pass uncommented on, so also in this issue is a detailed comparison of the Internet packages currently available. It's nice to see our Web site growing as well – it has recently acquired some PD pages kindly contributed by Paul Wheatley that are well worth a visit.

David Matthewman

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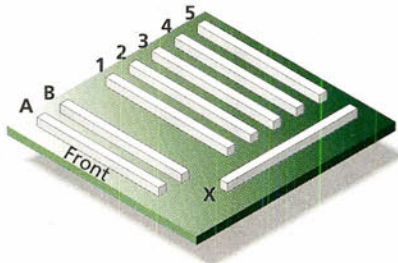
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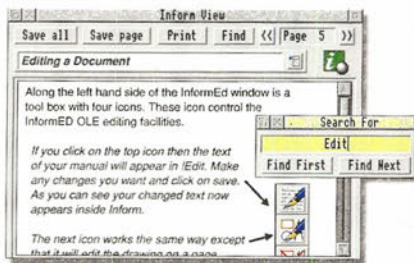
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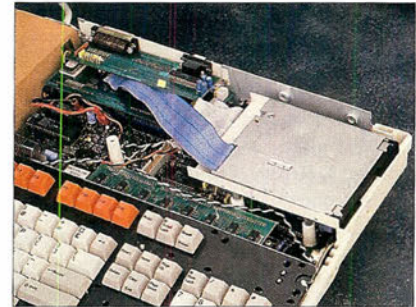
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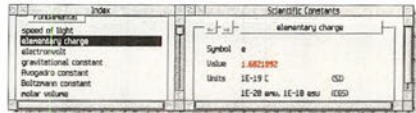


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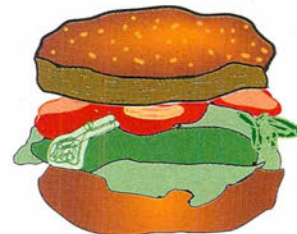
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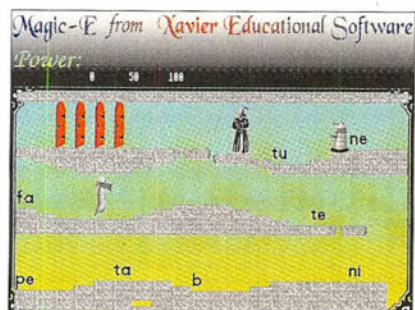


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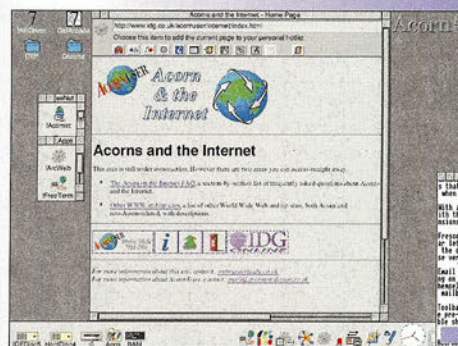


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We interview one of the families testing the interactive TV system for Online Media.

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Three-page round-up of all the Internet software available for the Acorn.



## Next month in Acorn User

### Christmas special issue

We'll have a host of tips for anyone wanting to fill the Christmas stocking of an Acorn enthusiast, from off-the-wall add-ons for your computer to the best in Public Domain if you're on a budget. There's a large Public Domain section in the magazine, including a round up of the best games on the scene.

We'll have full coverage of the launches at the Acorn World show, with a review of two exciting new graphics modelling packages leading the coverage of a range of new products.

With a couple of unmissable games demos on the cover disc, a report on the technology behind Online Media in the magazine, and the usual up-to-the minute news, you won't want to be without the special Christmas issue of *Acorn User*.

**NEXT  
ISSUE  
ON SALE  
30 NOVEMBER**



0151-625-1006

Special bargains

- Bodywise, age 9-14, shop-soiled
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Epson GQ-5000 Printer, second-hand
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Games Wizard - The Apprentice
IDE Removable Hard Disc Kit, 105 Mb
SCSI 5 1/4" Removable Hard Disc, Cartridge, 88 Mb, ex-demonstration
SCSI 5 1/4" Removable Hard Disc Drive, 88 Mb, second-hand
SolidsRENDER
TechWriter

PC software

- Arcshare Client
Arcshare Server
Encarta
Windows 95
Windows for Workgroups 3.11
Word 6 for Windows
WordPerfect for Windows Version 6.0a
Works V3 Windows

CD rom software

- 19th Century Biographies
Art in the National Curriculum, KS2,3
Art Store - Animals in Art
ArtWorks CD
Big Green Disc
Biffolio Clip Art Library CD
Britain 1750-1900:
Expansion, Trade and Industry, KS3
Britain from the Air
Britain Since 1930 (Anglia)
Britain Since 1930 (AVP), KS2,3
Castles
Clip-Art CD 1
Clip-Art CD 2
Countries of the British Isles
Countries of the World
Creepy Crawlies
Dictionary of the Living World
Digital Symphony CD Rom
Dinosaurs! The Multimedia Encyclopedia
Disasters
Earth and Atmosphere, KS2,3
English Architecture, KS2,3
Era of the Second World War, KS3
Famous Faces from History
First World War and Its Consequences, KS3
Garden Wildlife, KS2
Ghosts
Granny's Garden CD
Grooves
Hutchinson Encyclopedia
Image Warehouse
Impressionism in the Twentieth Century, KS3
Industrial Revolution, KS3
Junior PinPoint Data Workshop
Kingfisher Children's Microcopia on CD Rom, KS1-3
Maggie CD
Naughty Stories Volumes 1 and 2 (set of 12) CD, age 5-7
Nelson and the British Navy
Oxford Reading Tree Stage 2
Talking Stories CD, age 5-7
PDCD-1 Issue 2
PDCD-2
Perspectives Francaises, KS3,4
Photobase Decades:
The 1920s, The 1930s, The 1940s, The 1950s, The 1960s, The Victorians
Photobase: Landscapes
Photobase: Primary Images
Photobase: Science
PicturePoint CD, KS1,2
Seashore Life, age 7-11
Simon the Sorcerer CD
UK Habitats, KS2-4
Understanding Energy
Understanding the Body, age 11-14
Victorian Britain, KS2,3
World Habitats, KS2-4
World of the Vikings
World War II - On the Home Front
World's Weather, age 11-14

Other software

- 10 out of 10 English, limited offer
10 out of 10 Maths Number, limited offer
10 out of 10, various titles
1st Paint
Access+ for Risc PC
Advance
Advance primary site licence
Advance secondary site licence
Advance User Guide
Advantage, KS2,3
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Animated Numbers, age 3-6
Apollonius PDT
ArcFax
ArcFs 2
Archimedes Game Maker's Manual
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ArchTech site licence
Arcterm 7
Arcturus
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ArtWorks
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ArtWorks site licence
ArtWorks Arranger Tool
ArtWorks Made Easy
ArtWorks Pressure Tool
Asylum
AudioWorks
Aztecs, age 7-11
Badger Trails, age 9-11
Battlechess
BBC Basic Reference Manual
Betsi, age 7-12
Betsi site licence, age 7-12
Big Picture
Birds of War (not Risc PC)
Birds of War for Risc PC
Biffolio Cartoon Graphics
Black Angel
Blinds
Bodywise, age 9-14
Break 147 & Superpool (not Risc PC)
Break 147 & Superpool for Risc PC
Burn 'Out
Buttons
C++ (new edition) with disc
CADet, KS3,4
Calabash Pirates, age 7-11
Canon Fodder
CardShop
Cardage Inc. (not Risc PC)
Castle of Dreams (not Risc PC), age 7-11
Celebration
Celebration site licence
Chameleon (not Risc PC)
Chartwell
Chatter
Chessil
Chocks Away Compendium
Chopper Force (not Risc PC)
Chopper Force for Risc PC
Chuck Rock (not Risc PC)
CineWorks
Classcardz for Resultz
Classcardz for Wordz
Complete Animator
Composition (Risc PC only)
Compression
Craftshop 1
Craftshop 2
Creator II
Crystal Maze, age 7+
Crystal Rain Forest, age 8-11
Cyber Press
Darryl the Dragon, KS1,2
DataPower
DataPower site licence for >10
Demon's Lair
Desktop Thesaurus
Desktop Tracker
Diggers
Digital Symphony
Digital Symphony + CD Rom
Dinosaur Discovery, KS2
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Disc Rescue
Don The Professor, KS2,3
Draw Print & Plot
DrawBender
DrawBender site licence
Dune II
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E-Type 2 (not Risc PC)
E-Type 2 for Risc PC
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EasyWriter
EasyC (not Risc PC)
EasyFont 3
Eclipse Collection
Ego: Repton 4
Edoscope
Elite
Enter the Realm
Eureka 3, KS2,3
Eureka 3 site licence, KS2,3
Exotic Adventures of Sylvia Layne (not Risc PC)
Eye for Spelling, KS1,2
Favourite (not Risc PC)
Find It!
Fireworkz
Fireworkz Pro
Fireworkz Pro primary site licence
Fireworkz Pro secondary site licence
First Logo, KS1,2
First Page, KS2-4
First Words with Smudge, age 4+
Flashback, 1.6 Mb disc
Flashback, 300 kb discs
Flight Slim Tool kit
Flossy the Frog, KS1
Flossy the Frog Art Disc
Font Directory
Fontasy / DrawBender / Placard
Formulix
Freddy Teddy
Fun School 3: age 5, age 5-7, age 8+ each
Fun School 4: age 5, age 5-7, age 7-11 each
Galactic Dan
Genesis Professional
Genesis Project
Genesis Effect
Global Effect
Gods (not Risc PC)
Granny's Garden
Granny's Garden site licence
Granny's Garden French (Le Jardin de Grand-mère)
GraphBox, KS3,4
GraphBox Professional, KS4
Graphics Loaders
Graph\_IT, age 8-16+
GridPro (not Risc PC)
GridPro site licence (not Risc PC)
Grievous Bodily ARM (not Risc PC)
Hard Disc Companion II
Harshark

Advertisement for various software titles with images and prices:
night works £120
Educational Software SPELLING Structured £10
the talking animated alphabet £27
Cine £129
Compo £129
EIDOSCOPE £157
FLASHBACK £21
JIM SCHOOL £18
THAMES WATER £28
MISSION CONTROL £20
SCHEMA £43
Sibelius 6 £63
£95
£134

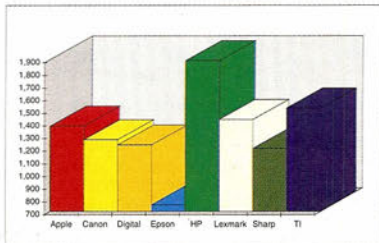
- Haunted House
Hearsay II
HeimDall
HeroQuest
Holed Out Compendium
Home Accounts
House of Numbers
Illusionist
Image Animator
Image Outliner
ImageBank Picture Compression Library
ImageMaster
Impression Publisher
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Key Calc
Key Image
Key Plus 3.0
Keypoint
Keystroke
Kid Pix, KS1,2
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Landmarks Microworlds - The Wars, KS2,3
Lemmings
Lemmings & Oh No! More Lemmings (Risc PC only)
Lemmings II (Tribes)
Little Red Riding Hood, age 5-8
Logo, KS1-4
Lotus Turbo Challenge 2 (not Risc PC)
MacFS
MacFS Light
Magic Pockets (not Risc PC)
Maggie
Manchester United (not Risc PC)
Manchester United Europe (not Risc PC)
Master Break
Masterfile III
Mathsmania
Maths Card
Maths Circus
Maths Explorer
Maths Odyssey
Mission: Control - Crystal
Rain Forest 2, age 7-11
Mouse in Holland
Music Box
Music Studio 32
Musketeer
Musketeer Upgrade from Advance
Nature Graphics
Naughty Stories Volume 1 (set of 6), age 5-7
Naughty Stories Volume 2 (set of 6), age 5-7
Navigator
Nebulus (not Risc PC)
NightSky
Noddy's Playtime (not Risc PC)
Noot (not Risc PC)
Noot site licence (not Risc PC)
Noot Art Disc
Notate, KS2-4
Oak PCB II
Oh No! More Lemmings (requires Lemmings)
OmniClient
Orrey
Ovation Pro
Ovation Reading Tree, age 5-7:
Stage 2 Story Books
Stage 2 Talking Stories
Stage 2 More Talking Stories A
Stage 3 Story Books
Stage 3 Talking Stories
Stage 3 More Talking Stories A
Oxford Talking Infant Atlas, KS1
Pandora's Box (not Risc PC)
PenDown 1.8
PenDown, KS1-3
PenDown Etouilles, KS3,4
PenDown Plus, KS2-4
Personal Accounts V3
Perspectives
Photodesk
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PipeDream 4
Pipedream, age 9-14
Playdays, age 3-8
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ProArtisan 2
ProArtisan 24 (Risc PC only)
ProCAD, KS4
Prophet 2
PublishArt Release 2, ArtWorks format
PublishArt Release 2, Draw format



# Fireworkz Pro

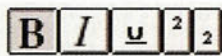
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Tel: 01223 311881, Fax: 01223 312010

- Fireworkz Pro costs £149 plus VAT and postage
- Upgrades are available from other Colton products
- RISC OS 3.1 is recommended
- You need at least 2MB of RAM

Name  
Address  
  
Postcode

Please send me more information about Fireworkz Pro



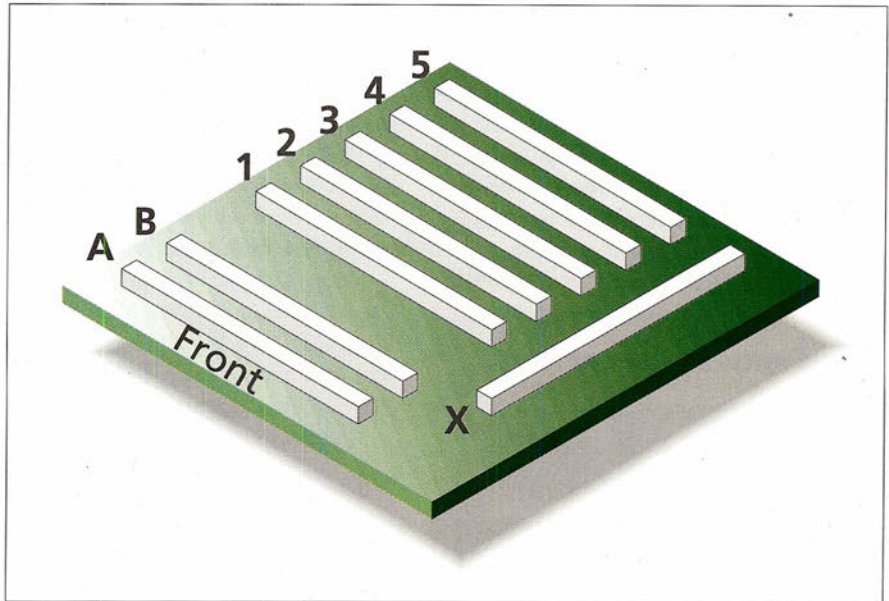


## Simtec multi-processor board arrives

**SIMTEC** Electronics has finally produced a set of working multi-processor boards for the Risc PC, albeit in very limited numbers at the moment. The boards can take up to five ARM processors – Aleph One's 486 co-processor will not yet work with the board – and plugs into the front processor slot of the Risc PC. As yet, there is effectively no software for the board – certainly no current RISC OS applications can use it, but Simtec is working on an Application Programmer's Interface (API) which should allow third parties to write software which uses the full power of the board without modifying existing software too much. A number of companies have shown an interest in using Simtec's board for dedicated applications such as fast graphics programming.

A test program running at Simtec's labs in Lancashire which did nothing more spectacular than increment the contents of a memory address, was shown running simultaneously in five processor cards and consequently running over four times faster than the program running in a single card. Tantric is known to be interested in making Taos work on the new board, but it is by no means the only option; Simtec is looking at other operating systems such as Helios as well.

Simtec has a history of innovative design, being the company behind the Turbo RAM upgrades for the A3010, A3020 and A4000 machines and the upgradeable SIMMs for the Risc PC. With its multi-processor board it opens up the possibility of super-fast Risc PCs, although it must be



A diagram of Simtec's multi-processor board for the Risc PC. Slots A and B exactly duplicate the two processor slots in the standard Risc PC; the board itself plugs into the front slot. Extra processors can be plugged into slots 2 – 5, with slot 1 reserved for possible on-board local SRAM. Slot X contains a card holding all the logic to drive the processors in tandem with each other.

emphasised that the software to exploit it may be a while in coming. One of the slots on the board will be able to take a card containing fast SRAM (static RAM), allowing the processors to have access to an on-board memory cache and reducing the transfer load to the main memory of the machine.

One of the commendable features of the card is that the logic to control handshaking between the processors – the equivalent of the ASIC on the 486 co-processor – is handled by a separate card. This means that existing ARM610 and ARM710 cards will

work in the board without modification because they don't need to carry their own on-board logic, keeping the cost of the complete system down. It is possible that Simtec will also produce its own ARM processor cards for the board.

No price has yet been set either for the board or the API, and the card is only available to interested developers at the moment. Nonetheless, it represents a significant step in the right direction for Acorn computers.

*Simtec Electronics*  
Tel: (01772) 812863

## Impression Publisher update

**CYNICS** may be surprised to hear that Computer Concepts has released an enhanced version of *Impression Publisher*. Computer Concepts' sister company, Xara Ltd, has just concluded a remarkable deal with the top drawing package company in the PC world (Corel Corp.) to market what might be described as the PC successor to *ArtWorks* (*Xara Studio*). However, CC hasn't yet washed its hands of the Acorn market completely.

CC's founder and managing director, Charles Moir, writes in the latest issue of CC's *Archimedean* customer newsletter that his company is not dropping the Acorn market, though it is clear that Acorn product development is declining in importance compared with the lucrative PC product side of the company and a new initiative into selling business access to the Internet. There is still demand for *TurboDrivers*, *Impression*, *ArtWorks* and of course the multimedia hardware upgrades. CC's subsidiary, Wild Vision, also

works closely with Online Media, for example. Moir's explanation that *Xara Studio* can't be ported to RISC OS unless Acorn standardises its C compiler and class libraries, could be interpreted as: 'we'll do it when Acorn does' – but knowing whether that will ever happen is like guessing the lottery jackpot numbers.

As for *Impression*, the improvements in 4.06 aren't revolutionary, though the use of dynamic area memory in the Risc PC can substantially accelerate responses when editing large documents. Added features include smart quotes, conditional case-swapping and a selected region word count. Upgrades to registered owners cost £15 inc VAT.

*Computer Concepts*  
Tel: (01442) 351000  
Fax: (01442) 350010  
WWW: <http://www.xara.co.uk/>

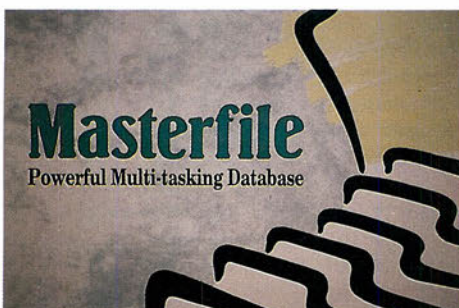
# First Choice for Quality Software

## SLEUTH 2

### Optical Character Recognition

Sleuth 2 is a truly professional OCR system with superb features like auto page zoning, style recognition, fully integrated spelling checker and guided editing. Sleuth converts scanned images of printed material into ASCII files and can handle virtually all popular fonts in a wide range of styles achieving over 99% accuracy on good quality images. You will need 4Mb Ram and an Acorn-compatible scanner with a minimum resolution of 300 dpi. Sleuth can scan images directly using Twain drivers, which are available separately.

**SLEUTH 2 Price £99 + £1.70 Carriage**



## MASTERFILE

### General Purpose Database

Masterfile is a fast and flexible general purpose database providing powerful data management facilities suitable for business, education and home.

Masterfile is probably the easiest Acorn database package to setup and use!

Its many features include a comprehensive indexing system, subsets which limit access to just those records which match search criteria, and a report generator which allows databases to be printed in a variety of card, spreadsheet or label formats.

**MASTERFILE Price £49 + £1.70 Carriage**

## EASY C++

### C++ Development System

Easy C++ is an excellent implementation of the in-vogue object oriented programming language C++. This implementation conforms to the latest Stroustrup text and supports both Templates and Exceptions. Unlike some other implementations, Easy C++ is not a C++ to C translator but compiles C++ source directly to ARM code making it quick and easy to use.

Easy C++ uses the much praised Easy C WIMP interface which allows programs to be compiled, linked and run at the click of a button. The package includes ANSI C and IOStream libraries, Make facility, integrated ARM assembler, source level debugger and also supports Throwback. The original highly acclaimed Easy C package is also still available.

**EASY C++ Price £99 + £2.70 Carriage**

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## TYPESTUDIO

### Flexible Font Effects

TypeStudio is the best selling font effects package that allows outline fonts to be manipulated to produce professional quality posters, banners, logos, letterheads etc. — the possibilities are endless.

Text may be flowed along straight or curved paths, or moulded into almost any shape. A wide range of interesting effects may then be applied to enhance the design further. These include: wall, floor and graduated shadow, 3D text, mirror, plinth, slant. You can use all of these effects on Draw files too! TypeStudio is intuitive to use, and unlike some other packages, paths and moulds may be created and edited using the drawing tools provided, so you can do all your design work using just the one package.

**TYPESTUDIO Price £29 + £1.70 Carriage**

## HEARSAY

### Advanced Communications

Hearsay is the definitive general purpose communications package for Acorn systems, designed for easy communications for the first time user, but with advanced features making it also the professionals choice. Hearsay provides high quality VT terminal emulations, and is ideal for use with Prestel, Campus 2000, Compuserve and virtually all bulletin board systems. Other features include: background file transfer, number directory, script language and support for popular modems.

**HEARSAY Price £75 + £2.70 Carriage**



## HARD DISC COMPANION

### Reliable Hard Disc Backup

Hard Disc Companion is the acclaimed package that provides a structured system for backing up hard drives to floppy discs and other devices.

It supports Full and Incremental backups with data compression. Files to be backed-up or ignored are chosen using simple drag operations. The backup specification may be saved in a script file for use at a later date.

In the event of disc failure or accidental file deletion, files may be retrieved using simple drag operations.

**COMPANION Price £45 + £1.70 Carriage**

# BEEBUG



# Acorn paints clearer picture of its future

**DAVID LEE**, Acorn's new managing director, has been talking about the future for Acorn. It has been a hectic couple of months for Lee since he was drafted in to replace Sam Wauchope. Now he is confident enough to paint a candid picture of his aims for the company. Lee admits there has been a lot of bad news. Poor financial performance cost the company nearly 60 jobs, a human toll which has placed great strain on those left behind. However, he says he can still smile: 'I would not have moved from a comfortable job at Olivetti if I believed that Acorn has had its day,' Lee says.

The reduction of cost and renewed growth in revenue are Lee's primary goals. To achieve these aims, Lee has decided to give more responsibility to his new divisional directors, Mike O'Riordan at Acorn Education and Peter Bondar at ART (Applied Risc Technologies), and has freed up the decision making process. 'I think you will see I have a different role as a managing director - more hands-off. I will devolve more responsibility than my predecessor. We can't behave like a big company any more.' Lee added: 'Technology expertise within the company has not been exploited to the full and there was too much focus on the Desktop and education.'

Of course, education is still the core earner and Lee doesn't mean there will be less emphasis on it; however, through ART, there will hopefully be an avenue for pent-up expertise in ARM-based RISC technologies.

Lee said that O'Riordan's job at Acorn Education was to serve the market and customer needs better. This means Acorn will definitely start selling Acorn-branded PCs early in 1996 alongside the usual ARM-based Acorn range. O'Riordan confirmed that, while he had not yet signed a contract with a PC manufacturer, the schedule is to display the new Acorn PC family at BETT in January. The range will consist of high-end 486 and Pentium models, but not notebooks. O'Riordan was less definite regarding Mac clones; he reserves the right to go down the

Mac route should the need arise, but the main target is the PC. In any case, Apple itself is facing severe difficulties in the education market.

Acorn will not make pots of gold by selling PCs. Gross margins in the PC market are half what Acorn enjoys with its proprietary products, which is good news for those who had feared Acorn would eventually drop its traditional ARM computer platform. Once again, the notion was expressed that Acorn PCs would act as a Trojan horse into non-Acorn schools. With schools able to deal for the first time with Acorn through its PC offering, Risc PCs and A7000s could be viable to those schools for the first time.

Acorn reminds us that it has worked hard to enable Acorns and PCs to sit happily on the same network, for example with the SchoolServer. O'Riordan even revealed that the head of one major Acorn-friendly education authority informed him as far back as January that the lack of a PC product line could eventually jeopardise the retention of RISC OS as a recommended platform for its schools.

Another revelation from O'Riordan is that he had been pushing for the freedom to introduce PCs for no less than three and half years. One point to mention is that O'Riordan is yet to be convinced that the consumer market, which his division is also tasked to address, should have access to Acorn-badged PCs.

Of future financial performance from Acorn, Lee warned that you can't expect an overnight transformation of Acorn's profitability. He admitted that the second half of 1995 was projected to make a loss, but he was expecting a return to the black by the second half of 1996. Meanwhile, Acorn's share price has actually risen in the wake of the bad financial results and news of restructuring. Lee suggests that much of this is attributed to Acorn's share in ARM Ltd plus optimism in Online Media. However, some of the share buoyancy can be attributed to Acorn's firm and swift action to restructure its business, Lee said.

## Acorn pre-Christmas offers

Acorn is running a pre-Christmas promotion on certain lines. Examples include £100-off Cumana CD-ROM drives and free CD-ROM bundles, plus Acorn A3010 *Early Years* outfits for £150 off the RRP (though check out similar Beebug offers). Full details of the offers plus associated vouchers are contained in the new Acorn Education Products and Services Autumn brochure which has been distributed to 32,000 schools around the country.

Acorn Sales Office  
(01223) 254214

## Yellowstone products for Risc PCs

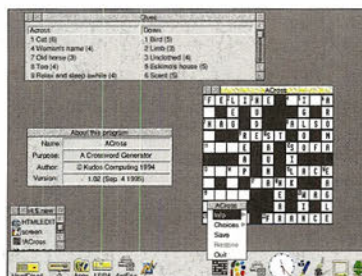
Luton-based Yellowstone Educational Solutions has announced a pair of hardware products for Risc PC owners: a fast ATA-2 IDE interface and an audio mixer board. Designed for Yellowstone by veteran Acorn hardware designer, Chris Honey, the new 32-bit RapIDE32 interface is claimed to be the fastest hard disc controller card available for the Risc PC. Four devices can be attached and RISC OS 3.60 filecore is supported. Performance is said to be 2.2 times faster than the standard Risc PC IDE interface. The interface is priced £119 + VAT and Yellowstone may be offering a range of matched fast IDE drives too. 6x-speed CD-ROM drives have also just become available for the RapIDE32 interface.

The second new item from Yellowstone is an internal audio mixer to combine stereo sound from an internal source, like a CD drive, with the existing computer-generated sound channels. Leads for most make of CD-ROM drive are available. Yellowstone's Audio Mixer is priced £29 + VAT.

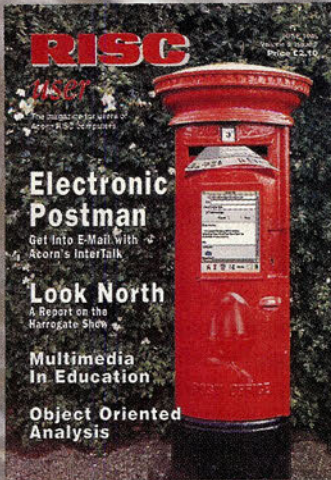
Yellowstone Educational  
Solutions  
Tel: (01582) 584828  
Fax: (01582) 56225

## Crosswords with Kudos

**KUDOS** Computing has announced a crossword generation program called *ACross*. Kudos explains that *ACross* differs from other crossword packages in that it is not specifically a crossword writing tool or a library of crossword puzzles. The program, via a dictionary of answers and clues and a pattern matching engine, creates random crossword puzzles at the click of a mouse button. Kudos is working on a choice of crossword dictionaries ranging in word size and clue difficulty. *ACross* is priced £24.99 inc VAT, with additional dictionaries priced £12 each.



Generate random crosswords with *ACross* from Kudos Computing.



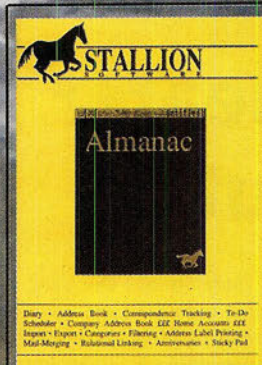
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(Requires RISC OS 3.1 and 2Mb RAM)

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# RISC User Fonts Pack 5

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(Fonts are supplied in MONO, Computer Concept's Artworks was used to generate the colour versions shown above)

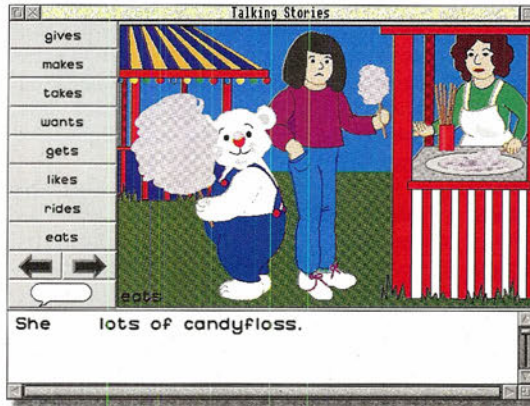
To order phone 01727 840303, fax 01727 860263, email: [sales@beebug.co.uk](mailto:sales@beebug.co.uk) or write to:



# Wyddfa at Acorn World

Celebrating its third birthday at Acorn World, Wyddfa Software, which specialises in educational software for youngsters, will be announcing new products there. French and German versions of *The Spoken Word* Keystage 1 language package are to be debuted at the show alongside the original Welsh and English versions. Wyddfa will be showing the Welsh version of *Talking Stories*, as well as *StoryMaker* for users to create their own stories. Another Wyddfa product which uses speech technology is *Talking Calculator* for developing number skills.

Wyddfa Software  
Tel: (01286) 870101  
Fax: (01286) 871722



Wyddfa's *Talking Stories* will shortly be available in Welsh.

## New PC Link package

Acorn has announced PC Link+ replacing the original AHA36 PC Link product. The serial port-based PC Link+ comes with a new file transfer utility for Microsoft Windows. This has a Windows-based file manager and converter for easier document transfer to PC files from word processors, spreadsheets and personal information managers. Also included is a Windows version of the *Cards* database, access to printers even on a PC network and a simplified one-click Pocket Book data backup function.

PC Link+ is priced £79.95 inc. VAT (Order Code AHA50) User of the old AHA36 PC Link package can upgrade to the new software version by ordering the *PsiWin* upgrade, priced £39.95 inc. VAT, direct from Psion.

Psion Customer Services  
Tel: 0171-258 7368

## Acorn User diary

Date	Event	Venue	Contact
27 - 29 Oct	Acorn World '95	Wembley Exhibition Hall 1	Ticket hotline: (01933) 441448
9 Nov	SARC Christmas Games Event	Ipswich	Paul Skirrow: (01473) 728943
12 Nov	Selective Computer Show	Kegworth Hotel	Selective Computer Services, tel/fax: (01332) 690691
24 Nov	Resource 95 IT Show	Doncaster Racecourse Exhibition Centre	Resource: (00509) 672222
3 Dec	Beebug Open Day	Beebug, St Albans	Beebug: (01727) 840303
10 - 13 Jan	BETT '96	National Hall, Olympia	Ticket hotline: 0181-984 7711
7 - 9 Mar	The Education Show	Halls 11 & 12, NEC	Ticket hotline: 0171-984 7711

## Curriculum learning products

**ANOTHER** new source of educational software has been created in the form of Curriculum Learning Products (CLP) in Durham. CLP acts as a distributor of educational software and related products. Three new products launch CLP: the first of which is *MiniSheet*, a spreadsheet package for young users. *MiniSheet* has large colourful icons, easy table data handling and all the usual accessories like charts and exporting to DTP packages. *MiniSheet* is priced £30 + VAT, which includes a site licence. Next up is *LibSearch*, a book database for keeping track of the books stored in a classroom. Not only can you enter information about each book in your library for later searches, but the software can be used to keep stock of your collection. The software is designed for use by Key Stage 1 pupils and above. *LibSearch* is priced £15 + VAT, which includes a site licence. Finally, CLP can supply a range of models to support the new National Curriculum requirements for control technology.

Curriculum Learning Products  
Tel/Fax: 0191-373 225

## Beebug's last chance £140 A3010

**BEEBUG** is warning that it definitely won't be able to repeat its latest offer of an A3010 computer for £140 + VAT. Its last A3010 offer saw 800 units sold in less than two months. As they point out, the price is less than half that of a Pocket Book II with 512K RAM. No monitor is supplied, but if you have a spare TV, the standard TV modulator can be used. The standard A3010 only comes with 1Mb RAM, but even when you add a second megabyte of RAM and an 80Mb hard drive, the cost is still only £325 + VAT.

An 80Mb hard drive and 2Mb RAM may sound minimalistic, but RISC OS works quite comfortably within this specification. For just £85 above the 2Mb upgrade option, you can go for 4Mb RAM. Beebug has also put together some software bundles, the *Home Office Pack* for £80 + VAT and the *Home Professional Pack* for £35 + VAT. The former includes the PC Emulator for running DOS applications.

Beebug  
Tel: (01727) 840303, Fax: (01727) 860263  
E-mail: sales@beebug.co.uk



# More on Tornado

WE'VE already covered *Tornado*, the 'addon' alternative operating system for RISC OS being developed by an independent team headed by Niall Douglas. *Tornado* promises to bring RISC OS bang up to date with a whole library of new features. As we understand it, *Tornado* is still some way off from being demonstrated, however, Douglas has now issued an updated document, rather in the style of a personalised white paper, which outlines what *Tornado* sets out to achieve. Here are a few excerpts from it:

'...more than likely Acorn will adopt a proprietary multiprocessor system based loosely around Taos, and will rewrite RISC OS to run on it. This RISC OS that we see may be considerably different to the one we know today. For a start, it probably will implement multitasking in the kernel ... in fact, a lot of RISC OS may be changed to function like other operating systems, probably based a lot on UNIX.

Douglas predicts that *Tornado* will be able to run on a multi-processor Acorn computer, with some of these benefits:

*Tornado* adds standard facilities for OLE,

hotlinking, external editing and multiple viewing.' Douglas describes the basic detail of a system-wide architecture with comprehensive inter-application communication. *Tornado* also manages application data, preserving it even when the application crashes.

Multi-tasking will also be radically different under *Tornado*: 'All programs are pre-empted under the *Tornado* multi-tasker, which runs alongside the RISC OS multi-tasker. Printing and all disc I/O under *Tornado* multi-tasks and sub-tasking is available to have heavy processing done by *Tornado* and not by your task. An incredible difference shows when programs are written properly - the Desktop becomes fluid, and tasking does not halt momentarily.'

A 'visual' programming environment, with drag and drop object construction, is envisaged for *Tornado* and programs will be able to combine C, Assembler and even BASIC routines.

*Tornado* will do lots of things on the fly: 'Dragging a GIF file into a *Tornado* program which can only understand

sprites starts up one of a set of specialised subtasks, which converts the GIF into a sprite, and when saved will convert it back again. Also, *Tornado* provides renderers, which will render files in their native format for the application.'

Ease of application building is a primary goal: 'I would think that when writers get a hold of the visual editor, *Tornado* will soar off, simply because in comparison to RISC OS, there simply is nothing like it. *ResEd* is very clever, but it simply can't bypass the inherent restrictions the WIMP places on tasks running under it. It also doesn't allow BASIC to be used in code, and as the amount of programs out there that are written in this language shows, there is still quite a bunch of people who want to use it.'

More extensive information on *Tornado* is stored at [micros.hensa.ac.uk](http://micros.hensa.ac.uk) (search for 'Tornado' in the Acorn section). Douglas can be contacted at: [ndouglas@digibank.demon.co.uk](mailto:ndouglas@digibank.demon.co.uk) - but the last story we printed on the subject caused his mail box to be severely overloaded, so please go easy on the e-mail.

## New software from CCS

CREATIVE Curriculum Software (CCS) has announced a collection of new education software titles which will be officially launched at Acorn World. The first is *Language Master* (£45 + VAT), which is an extension of the concept first developed in *Spelling Book*, which itself continues as a separate product. *Language Master* provides instant access to a database of customised words and phrases and can be used within word processors and DTP packages. English, French, German and Spanish language support is selectable.

A new version of *Report Writer* (£39 + VAT), for generating student school reports, has been developed to cater for the new National Curriculum. *Easimenu* (£14.95 + VAT, £10 inc VAT at the show) is a new utility for setting up hard drives and RISC OS computers with the minimum of complexity. *Easimenu* is aimed particularly at primary schools and will work on a network too. *Magic Maths* (£25.49 + VAT) is a new application for exercising mental arithmetic skills.

Whether or not the next offering qualifies as an educational title is a moot point - it's *The Patience Addict*, a collection of 20 classic games of Patience varying in difficulty. The list price for *The Patience Addict* is £12.73 + VAT but at Acorn World it will be available for £10 inc VAT. Finally, there is *Mechanisms* (£69 + VAT), a CD-ROM which provides graphical demonstration of the link between theory and practice in technology, maths and physics. For Acorn World only, *Mechanisms* is priced at just £19 + VAT. All products are available with site licence options.

Creative Curriculum Software  
Tel: (01422) 340524  
Fax: (01422) 346388

## Modus on-line

ACORN games house Modus Software has announced that it is to have a presence on the Digital Databank bulletin board, which is dedicated to all things Acorn. The Modus area on the Digital

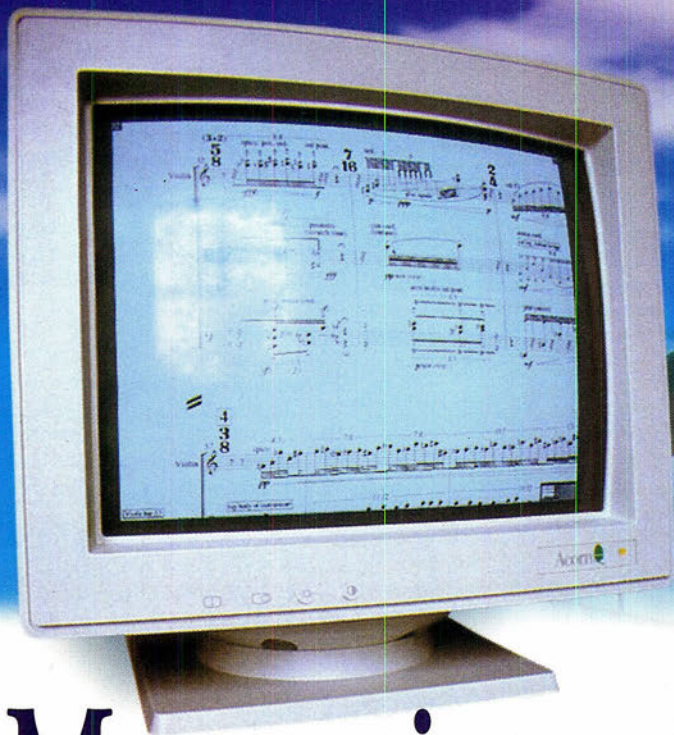


*High Risc Racing* from Modus Software - you've seen the screenshots, now download the demo.

Digital Databank, operated by John Stonier in Welwyn Garden City, has four modem access lines on these numbers: (01707) 329306/323531. The first number operates up to 28.8Kbps and the second up to 14.4Kbps.

Modus Software  
Tel: (01236) 722202  
e-mail: [modus@digibank.demon.co.uk](mailto:modus@digibank.demon.co.uk)

NEW!  
Version 3



# Manuscript paper that thinks.

WHAT BETTER Christmas present for yourself than one of the award-winning music programs **Sibelius 6**, **Sibelius 7 Student** or **Sibelius 7**? Especially now that they're coming out in **Version 3**.

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And as a special offer we're giving away **FREE CD-1000 headphones** with version 3 (while stocks last) – and offering MIDI interfaces for a ridiculous **£39+VAT\***.

If you don't know about the **Sibelius** programs already, over the last two

years they've received major reviews in *The Times*, *Independent*, *Sunday Times*, *New Scientist*, *Daily Telegraph*, *Financial Times* and even the *South China Morning Post*... been seen by 100 million TV viewers worldwide... played the piano in a major London concert... received numerous awards... and become the UK industry standard for music publishing.

**Sibelius 6** (£179+VAT) does everything most people need – all standard notation for up to 16 instruments and 512 bars. **Sibelius 7 Student** (£495+VAT) has advanced features for more complex music such as orchestral scores.

**Sibelius 7**, the full professional program (£888+VAT), is now the UK music publishing industry standard – used by the **BBC**, the **Royal Academy of Music** and other conservatoires, publishers including **Faber Music** and **Music Sales** (Europe's biggest music publisher), and leading composers such as **John Rutter** and **Malcolm Williamson** (Master of the Queen's Music).

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– *YES magazine*

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– *Sunday Times*

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– *The Times*

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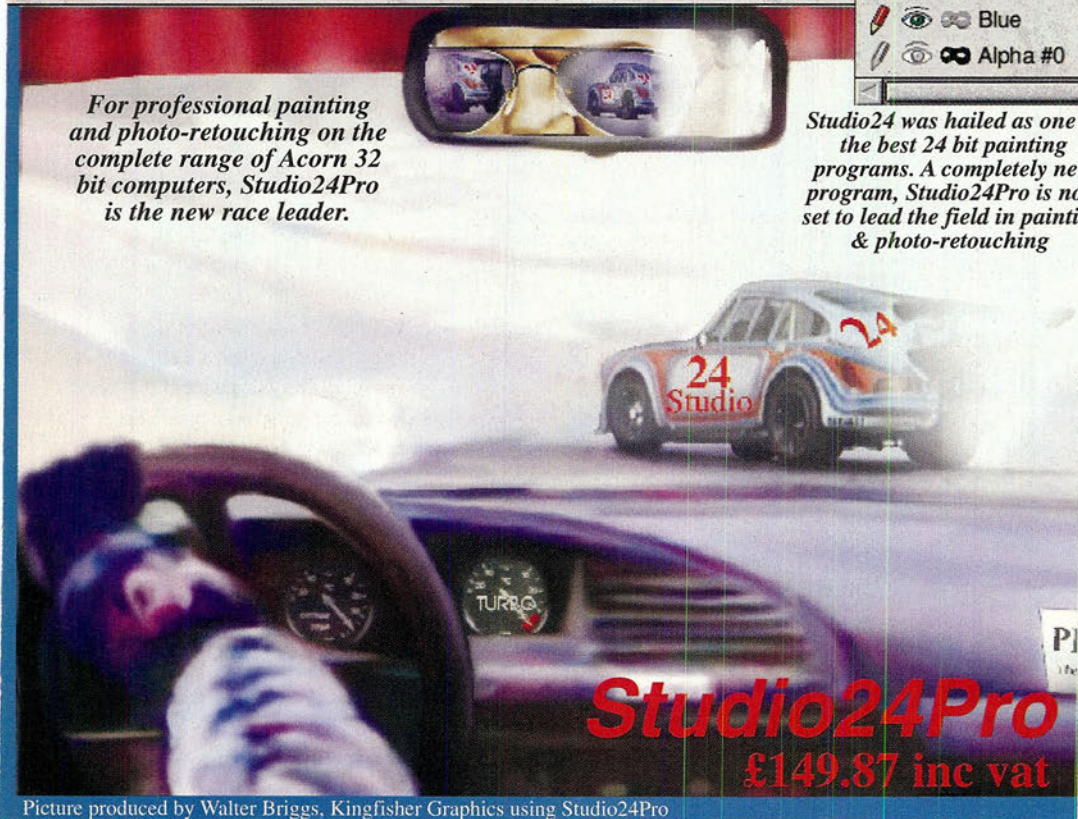
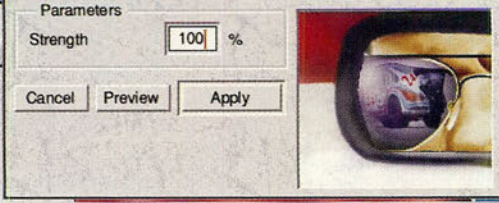
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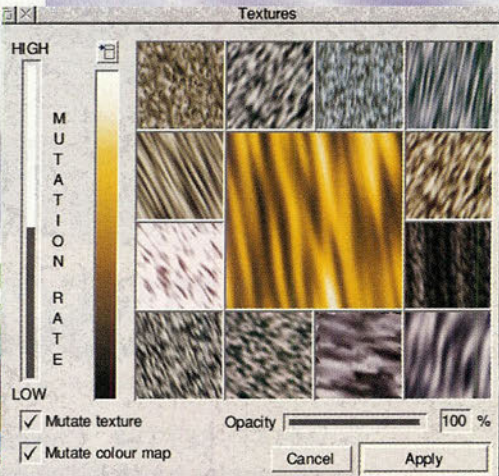
email: [info@sibelius.demon.co.uk](mailto:info@sibelius.demon.co.uk)

Piece for choir and piano, laser printed using **Sibelius 6**

\*For A3000, A3010, A3020 & A4000 – other models £69+VAT



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- RGB
  - Red
  - Green
  - Blue
  - Alpha #0
- Features**
- \* Fast Virtual Memory
  - \* Random mutated texture generation
  - \* Undo brush, Texture and Filter brush
  - \* Over 40 pre-defined filters including Spin blur, Motion blur, Lighting etc, etc.
  - \* PhotoCD and Scanner input
  - \* Merging of Sprites, Jpegs, Tiffs & Draw files.
  - \* Built in Draw file creation
  - \* RGB, CMYK or Indexed channel modes
  - \* Up to 16, 8 bit mask channels
  - \* Filter preview window (shown above)



For professional painting and photo-retouching on the complete range of Acorn 32 bit computers, Studio24Pro is the new race leader.

Studio24 was hailed as one of the best 24 bit painting programs. A completely new program, Studio24Pro is now set to lead the field in painting & photo-retouching

**Studio24Pro**  
£149.87 inc vat

Picture produced by Walter Briggs, Kingfisher Graphics using Studio24Pro

## Virus Protection Scheme

The Pineapple Software Virus Protection Scheme provides the most comprehensive protection available against computer viruses. !Killer together with VProtect will detect and remove all of the currently known 75 families of virus (over 100 viruses in total). Because new viruses are being discovered all the time our virus protection scheme will provide you with 3-4 updates of the software each year. We can also offer immediate advice by 'phone. !Killer can scan any filing system or device including floppies, harddiscs, networks, even CDRoms. All types of compressed file can also be scanned. All infected files are fully restored without having to reload from master discs or backups.

**Don't wait until you discover you have a virus! Use the software that Acorn themselves use to check for viruses.**

**A years subscription costs just £28.20 inc vat**

Low cost school and county licences available



## ArtWorks Video Tutorial



A BRAND new product from Pineapple is this VHS Video Tutorial covering the use of ArtWorks. Walter Briggs is the tutor for this 1 hour video which shows how to use all the ArtWorks tools and then goes on to show how Walter produced his famous Tuger head picture. Wlater also draws an impressive landscape picture which can be copied by those with no artistic talent at all!

**ArtWorks VHS Video Tutorial £19.99 inc vat**

## A4 Colour Scanners



New from Pineapple the superb IX-4015 A4 flatbed Canon colour scanner. Supplied with Imagemaster and Twain software this scanner makes the perfect companion for our Studio24 re-touching software. With a basic resolution of 400 x 800 dpi this scanner is unbeatable value.

**IX4015 with Imagemaster & Twain £675.00**  
**As above + Studio24Pro £769.00**  
**SCSI interface + cable 'phone**

## Epson Colour Scanners

Also supplied with ImageMaster and Twain software these models can work on either SCSI systems or via the Parallel Port. Basic resolution of GT8500 is 400dpi and the GT9000 is 600dpi

**GT-8500 £599.00      GT-9000 £733.00**

### Pineapple Software

Suites 13 & 14  
South Park Business Centre  
310 Green Lane, Ilford  
Essex IG1 1XT

Tel 0181 599 1476 Fax 0181 598 2343

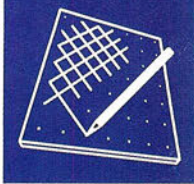
email: sales@pineapple.demon.co.uk

**Terms:-** All prices include 17.5% vat. Carriage FREE to mainland U.K. Phone for quote outside U.K. Official orders, cheques and all major credit cards accepted. Money back guarantee on all products.

For demonstrations of most of our advertised products why not come and visit us in our new offices (easy parking) where you can see most of the Acorn range of computers and other hardware in action.



# Graphics



## The Acorn's fastest 3D modeller

WHEN is an Acorn an Indy? When it's running the magically fast *Top Model* 3D modelling software from the Italian group, Sincronia Soluzioni Multimediali. *Top Model* arrived on my desk only days after last month's featured graphics package, *Merlin*, emerged in its first 'officialish' guise.

I've been playing around on the former for several weeks now, exploring the hidden depths of this remarkably well-equipped modeller which features extremely advanced modelling tools only previously seen in packages like *Autodesk*, *3D Studio*, *Alias* and *Renderman*.

But just for a moment forget all the things it does because, to use a car analogy, it is no good having full leather interior, a megawatt stereo and air conditioning if the thing has a lawnmower engine under the bonnet. What I'm trying to point out is the futility of a package with all the features you could ever dream of and more if all the functions take longer than a tortoise marathon to execute.

*Top Model* is a little different from your average modelling package, because it makes all modelling packages seem appalling slow. On a Risc PC it is so quick at redrawing and zooming even the most complicated textured and illuminated models that an Acorn software programmer to whom I demonstrated the program could only exclaim ... words that could not be repeated in this family publication.

Someone else commented that it was faster than his 120MHz Pentium running *3D Studio*. Even at this beta stage I can safely say that *Top Model* is incredibly fast and packed with plenty of exotic modelling wizardry, though without a maths co-processor its speed cannot match



Entirely created in *Top Model*, this face is rendered with perspective at approximately four redraws per second.

Reality Labs rendering technology on the PC just yet.

The programmers are serious about development, with plans for top end features for the package such as professional-quality raytracing and broadcast-quality animation, provided that two criteria are met. The first is that the Acorn platform must deliver the raw processing power that it has promised, and the second is that enough people buy the basic version of *Top Model*.

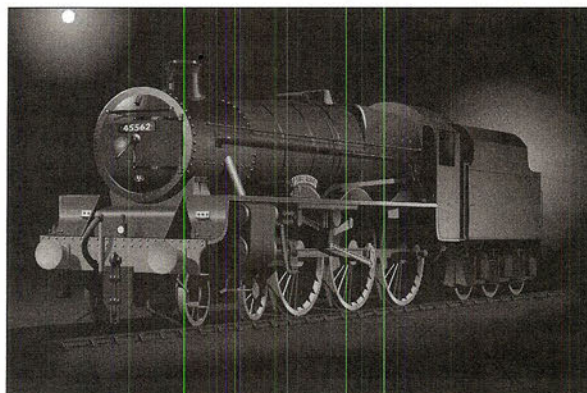
So when it goes on sale, buy it. This could easily become the *Sibelius* of graphics software. If you need convincing, we hope to have a demo on the cover disc shortly. For details on prices and further information about the *Top Model* software project call Paulo Rossi, who speaks better English than I do.

Sincronia Soluzioni Multimedia  
Tel: +49 27 61 30 62

## Pic of the month

IN his own words, Doug Claw – creator of this moody monochrome locomotive picture – is 'not one of those very talented young people' who feature regularly on the graphics page. I would agree that at 64 years old Doug is certainly not the youngest winner of Pic of the Month, but he is surely one of the most talented judging from this *ArtWorks* image produced on a Risc PC.

£20 and a free slide recording from Digital Darkroom (call 0181-311 2001) is the lottery-shaming, one and only Pic of the Month jackpot.



### Keep 'em coming

If you are one of the entrants to the graphics page competition (to all of whom I have enormous gratitude for sending in your piccies) who has never won, do not despair; there is another bumper CD-ROM cover disc in the near pipeline and we will be featuring every single pic of the month entry that we can in order to showcase Acorn artistry.

Send in all your pictures as soon as possible; we will do our best to return the discs to you if you include a SAE. If you prefer you can e-mail your entries. Please let us know if you would prefer your entry *not* to go on the CD-ROM, and tell us the details of how you created your masterpiece.

Just imagine having all your artwork immortalised by us on an *Acorn User* cover CD-ROM.

### New e-mail address

Just like so many others, I have been nabbed by the ArgoNet bug and my e-mail has changed. My address is now simply jack@argo.co.uk so, if you're on e-mail, try dropping me a line. Mail sent to jack@acornusr.demon.co.uk will be automatically forwarded. With the *Acorn User* WWW pages ever-growing, I need suggestions for an on-line set of Graphics pages. Can you help?

### Corel buys Xara

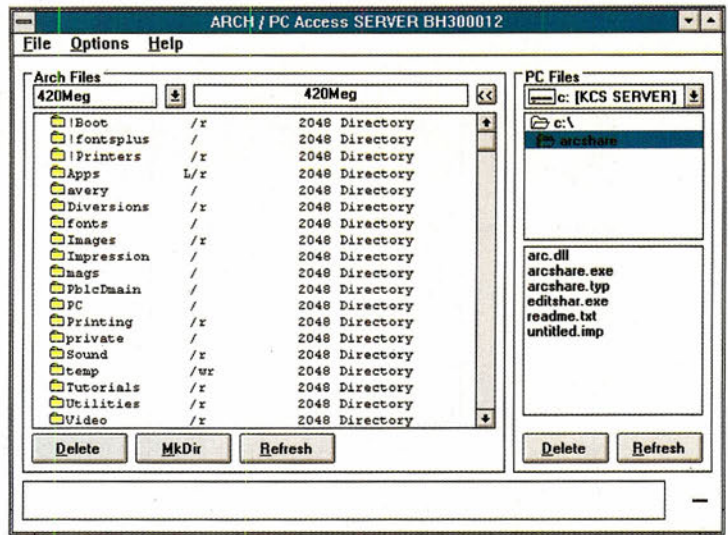
Well what can you say? Writing word processors for the Beeb one minute: sealing deals with one of the world's largest software manufacturers the next. Computer Concepts, having finished the ground-breaking *Xara Studio*, have had the rights to market the program bought for an undisclosed figure by Corel. Well done to the team at CC.

### Contacting me

You can contact the Graphics page by writing to me, Jack Kreindler, at Acorn User, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP, or by e-mail to: jack@argo.co.uk.

# Arcshare™

Acorn to PC Networking Software



Its finally happened. A company has come up with a simple and inexpensive solution to an age old problem.

Getting access to files stored on a PC has always been a problem for Acorn computer owners. There has always been Floppy Disk transfers, but these are slow and limited to 1.44Mb. There has been several attempts to "Network" the two computers together but most attempts have been problematic and needed a great deal of extra hardware.

Arcshare is the latest program from KCS which allows any Acorn computer with an Access network card to talk to any PC with a network card & Windows.

Arcshare needs no extra hardware other than cheap network cards. Arcshare is very easy to use through its graphical interface and is, on average 40 times quicker than using a floppy disk, but with no file size limitation. Arcshare can even use CD Rom drives from a different machine.

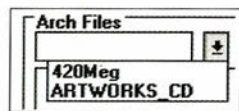
## Available Now.



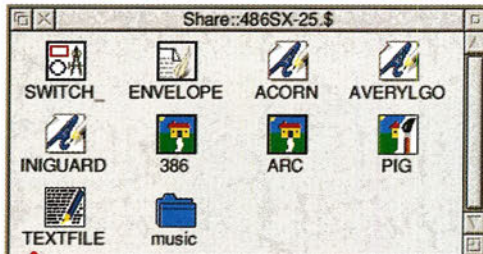
In the Main screen on Arcshare Client, both the Acorn and the PC directories are visible. Files can either be copied, or deleted, even new directories can be created on the Acorn from the PC. Arcshare has the advantage, that it can be run directly from the Windows Filemanager so that file manipulation is simple. Arcshare can run under a Windows for Workgroups network in conjunction with other PC's on the same network. There is no limit as to the amount of Acorns that can be seen from the PC on the Access network.

On the Acorn, the PC directories are designed to look just like any other Acorn directory. In fact, Arcshare makes the PC behave as if it were part of an Access network. Files can be copied from the PC directories to acorn directories in the normal manner. Files can even be copied from one PC to another PC via the Acorn.

It's time to join the PC and the Acorn on the same network. Call KCS now to find out more about Arcshare and networking Acorns to PC's.



CD Roms, Hard Drives & other Acorn Computers can be seen & used by the PC.



The PC Directory looks like just another Acorn Directory, thanks to Automatic, remote Filetyping.



**See It!  
Use It!  
Buy It!**  
at the  
**Acorn  
World Show**

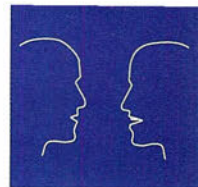
Prices  
**Arcshare Client v1.4**  
£79.00 & Vat  
**Arcshare Server v1.4**  
£99.00 & Vat

### Arcshare Client v1.4

- \* Allows file transfers between Acorn and PC Computers.
- \* No Filesize Limitation.
- \* Automatic Filetyping when the Acorn receives a file so that the file is ready to be loaded into an application straight away.
- \* Automatic File Extensions added when a file is transferred from the Acorn to the PC so that the file can be loaded into a program straight away.
- \* Easy to Use Graphic Interface.
- \* No "Dedicated Server" Computer required.
- \* Connects directly to Acorn Access Network. Very easy to setup and install.
- \* Works with Windows 3.1, 3.11, Windows 95 & Windows NT

### Arcshare Server v1.4

- \* Has ALL the Functions of Arcshare Client v1.4 but with the following additional extras.
- \* Allows transfers of files from the Acorn.
- \* When a Window is open displaying a PC directory, all the files are filetypeed even though they are stored on the PC!
- \* Files can even be copied from PC to PC from the Acorn.
- \* Any Acorn on the Network can access the PC.
- \* Makes the PC system look like another Acorn Access system.
- \* Files can be loaded into applications directly from the PC.



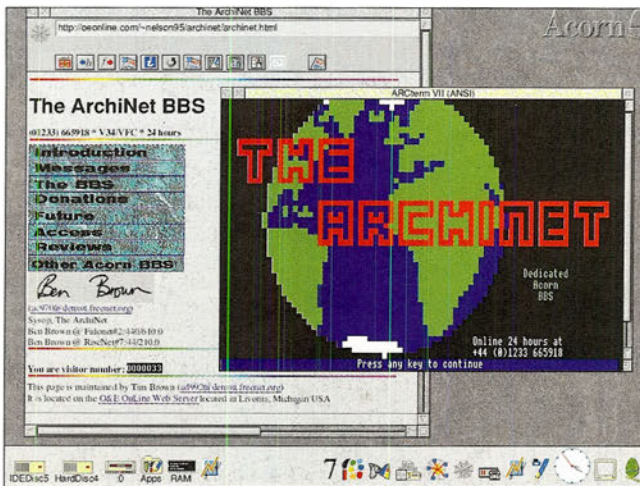
## ArchiNet BBS spins first Web

THE ArchiNet BBS run by Ben Brown is one of the first Acorn bulletin boards to have its own World Wide Web site. With appropriately world-wide resources, the BBS is located in the United Kingdom, in Ashford, Kent, while the Web pages are fetched from a server in Livonia, Michigan USA.

The Web knows no bounds though, and Ben's ArchiNet pages are as easily accessed with a Web browser as the BBS system is by dialling the BBS direct with an ANSI terminal. The BBS screens and the Web pages are separately maintained and operated, so are not linked in real-time.

ArchiNet runs on a Risc PC 600 with 12Mb of memory, 540Mb and 1275Mb hard drives, and a dual-speed CD-ROM drive. The BBS has a dedicated phone line connected to aUSR Sportster 14400bps modem for 24 hour access. Ben Brown is the author of *FidoArm*, an add-on program for *ArmBBS* that enhances the BBS software to add Fidonet messaging ability, and many other *ArmBBS* sysops have been using it successfully.

Thanks to *FidoArm*, the ArchiNet BBS is linked both to Fidonet and the RiscNet alternative Acorn-interest BBS network, which duplicates many of the special interest message areas that



The ArchiNet BBS is now accessible over the World Wide Web.

have become established on Fidonet. ArchiNet carries these Acorn message areas as well as those on Grand Prix motor racing and Rock and Metal music.

Over 60 file subject areas contain about 200Mb of files available to ArchiNet users at the time of writing. Users who register with ArchiNet and offer a small donation towards running costs are given full access to the system. Running a BBS is not without ongoing expenses – the rental on a single telephone line is over £100 per year.

The ArchiNet BBS  
Fidonet#2:440/610.0  
RiscNet#7:44/210.0  
Modem: (01233) 665918

## The incredible shrinking Internet

WHILE the Internet has been evolving from a military defence communications system in the 1970s, adding academic and educational networks in the '80s to today's still expanding personal and increasingly commercial worldwide digital data exchange medium of the '90s, the number of users of these services is now rapidly reaching the current design limit.

At the moment, most Internet account holders are allocated a unique machine address, which is stated as a 32-bit number called the IP address. This identifies the actual machine being used, and the sub-network of which it forms a part. It's divided into four parts for human readability. For instance, the Arcade BBS Demon IP address is

158.152.17.41. A 32-bit number allows over four billion combinations, but many addresses were allocated rather wastefully in the early days so that whole blocks of addresses could refer to a single machine, and many other blocks have already been reserved.

So incredibly, there will soon not be enough addresses to go round. The way forward is a new proposed standard called the Next Generation Internet Protocol – IPng.

The IPng proposal increases the number of bits in the address space to 128, which is four times the 32 bits used previously. This works out at 340,282,366,920,938,463,463,374,607,431,768,211,456 addresses. Allowing for correlation with existing addressing systems, it has been estimated

that this would provide 3,911,873,538,269,506,102 addresses for every square metre of the Earth's surface.

The future of Internet working lies not only with computing, but with networked entertainment with hundreds more TV channels, video on demand, and also with wireless networks, such as cellular phones, pagers, and personal organisers. Household equipment, such as lighting, heating and cooling systems are simple to control, and are ideal to become networked and addressable.

So in the future you'll probably be able to phone your house from work, order up an old film to watch when you get home, and turn on your porch light without turning on everyone else's.

## Demon ROMPs home

Demon Internet has announced details of its countrywide local call rate access to the Internet. The whole of the UK is now covered by using Regionally Organised Modem Pools (ROMPs) provided by both Energis and Mercury, and an 0645 number for customers in certain specified areas not otherwise locally served. You can get full details from this web page: <http://www.demon.co.uk/dil/pop.s.html>

Demon Internet Ltd  
Tel: 0181-371 1234

## Arctic RISC

Steve Pursey of Arctic BBS in West London has taken advantage of Acorn's 20/20 interest free credit scheme and upgraded the BBS to a Risc PC 700. Arctic runs USR modems, and the Fidonet line now supports all speeds to V.34+ (33600bps).

Arctic BBS  
Modem: 0181-903 1308/1309

## Rocket takes off

James Sears tells me of Rocket Gold BBS, his new *ArmBBS* system located in Pitton, Wiltshire. Running on an A3010, the BBS is online 24 hours and will support speeds to 14400bps. As well as Acorn interest areas which include clip art and Acorn programming, Rocket Gold has areas for Amiga and IBM PC users, and for industry standards such as PostScript, CSV and MPEG. *Star Trek*, *Babylon 5* and *X-Files* fans will find friends on Rocket too.

Rocket Gold BBS  
Modem: (01722) 712422

## Contacting me

You can contact the Comms page by writing to David Dade, Acorn User, IDG Media, Media House, Adlington Park, Macclesfield, SK10 4NP, or by e-mail to: [DavidD@arcade.demon.co.uk](mailto:DavidD@arcade.demon.co.uk), or mail #2 on Arcade BBS 0181-654 2212.

# Upgrade to a New Risc PC **0%**

**finance on  
Risc PCs  
or  
up to  
£150  
cash back  
Call for details**



Buy with confidence from Beebug, voted "Best Dealer" by Acorn User **BEEBUG** is Acorn's largest dealer & is an Acorn Centre of Technology

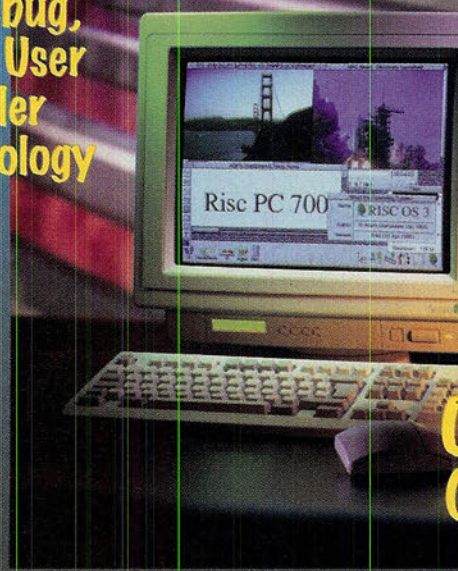
The Risc PC is the ultimate system for the home user and enthusiast, and it is now faster and better priced than ever before.

### Support From Beebug

We exclusively supply Acorn systems, and our support staff are second to none

### Trade In Your Existing System

Attractive trade in discounts for your existing Acorn system, call for details. Your data and upgrades will be transferred to your new system at no charge



### New Lower Prices

Risc PC600 4Mb HD425, with AKF60 monitor	£1148.00
Risc PC700 5Mb HD425, with AKF60 monitor	£1360.00
Risc PC700 10Mb HD850, with AKF60 monitor	£1692.00

12 months on-site warranty included.  
 17" Acorn AKF85 Monitor - Add £278.00  
 Acorn Double Speed CD Drive - Add £111.00  
 0% APR credit is available over 20 months. Please call for written details.

### Special Offer

Choose from either:

**Ovation DTP (RRP £69)**

OR

**12 months RISC User Magazine & Disc Subscription (RRP £69.90)**



now just  
**£140**

# The A3010 Computer (originally £424)

This is a unique opportunity to purchase a complete Acorn computer at an unbelievable price. Beebug has negotiated this offer directly with Acorn Computers and can guarantee you that this price will never be repeated once stocks have been sold.

### A3010 Specification

The A3010 is supplied with 1Mb RAM (upgradable to 4Mb), RISC OS 3.1, mouse, stereo sound, two joystick interfaces and can be used with either a TV or monitor. It includes Edit, Paint, Draw, and Maestro music programs along with the game Zool and wordprocessor StartWrite. The system has a single expansion slot for hard drive or scanner etc., serial port and a bi-directional printer port.

### Monitors & Upgrades

1-2Mb RAM	£40
1-4Mb RAM	£125
80Mb Hard Drive	£145
AKF53 Monitor	£170
AKF50 Monitor	£245

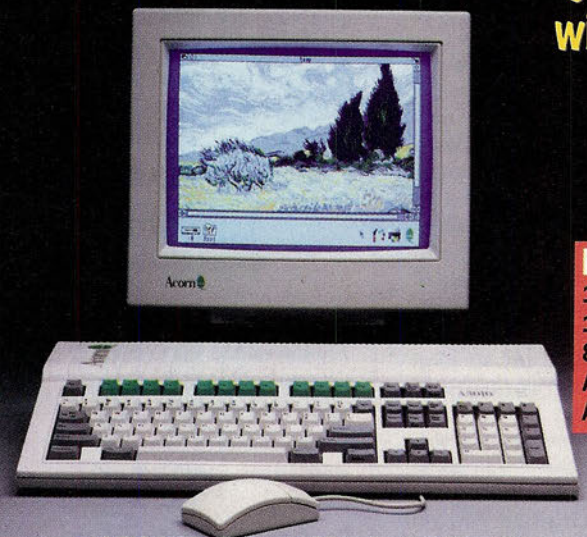
### Upgrades

We can offer a number of upgrades at reduced prices and fitted free when purchased with a system. For example a 2Mb A3010 with monitor would cost just £350. These systems are ideal for home and educational use and offer a very similar specification to the A3020, as used in most schools throughout the country.

### Software Packs

The following packs are available when buying an A3010.

Home Office	Easiwriter, Datapower, Pipedream 4, PC Emulator/DOS 6	£80
Home Professional	Ovation DTP, Pipedream 3, Atelier, Type Studio, Chartwell, Chess	£35



A3010 with optional monitor



BEEBUG Ltd 117 Hatfield Road St Albans Herts AL1 4JS  
 Tel 01727 840303 Telesales Hotline 01727 840305 Fax 01727 860263



## A modest proposal

THE last document to go under the knife in our makeovers is a report-style proposal. It comes from an estate in Manchester that's bidding for extra funding from the local Council.

Stan Pargeter, the local tenants' association chairman, had received a fairly poor document from a unit within the local housing office.

The A4 report had several nearly empty pages with overly large text designed to make them look full, a number of charts (placed on the page sideways with simple outlines and text), a couple of typed pages, and two pages of photographs that had been stuck onto a page and photocopied. This was not really the impression Stan

wanted to give to the local councillors and town hall officials. It struck me as an ideal opportunity to examine some report-type concepts.

A report outline was added and the conclusions page was moved from page two to page twenty, giving the report a sequential structure.

A large sideways-mounted heading bar was chosen because all the headings were almost long enough to fill the page, and it made excellent use of the thumb space.

A logo for the tenants' association and the local housing department were included at the bottom and a reversed page number set into the top right of the page.

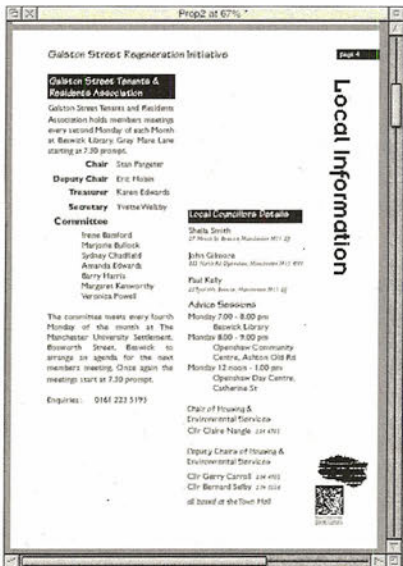
Three fonts were used: Gill Sans for the main body text, Insignia for the side mounted headings, and Architect for sub-headings as well as notes for the diagrams and maps.

All three fonts are conspicuously modern and the Architect font worked well on the maps and charts that were included. A bold, reversed version of Architect was also used in various sub headings.

The report was heat seal/slide bound so an extra 10mm gutter was added to the left-hand edge of the page to prevent text slipping into the curve created at the bound edge; all the pages were right-handed.

Seven guide columns were used, with the outside one containing the side-mounted headings and logos. Each page either used all six of the remaining columns or used two sets of three guide columns.

Steve Powell



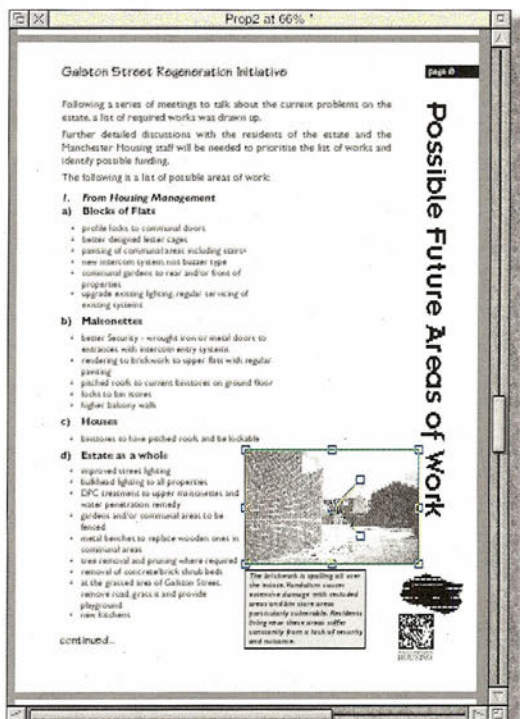
Where two columns were used they were offset; the leftmost to the top of the page and the rightmost to the bottom. This helped to differentiate the two columns which frequently contained unrelated information that had been spun out to fill whole pages of the original report. Condensing material helped reduce the page count by almost one third.

### Tips for reports

- Use summary boxes on each page to highlight key issues.
- Keep headings large and establish a hierarchy of type faces for headings so that tracking down the right page and then the right section of a page is easy.
- Select your fonts and page grid carefully; they should project the image you want to put across.
- Use a local index box to draw attention to related topics and diagrams rather than using 'see page x' in the text.
- Always try to place related images or charts next to the most relevant text.
- Emphasise the main index, which helps create a structure to the report and aids navigation through it.
- Always include the title of the report and the name of whoever is producing it on each page. That way, if a page becomes separated or is used on its own, it's easy to track it back to the document.

Works	Estimated total cost	Priority	Target date start	Target date completion
<b>Security Work</b>				
Intercom System - Flats	22,000			
Intercom System - Flats/entrances	46,200			
Security Doors - Flats	9,375			
Security Doors - Flats/entrances	17,400			
Wallhead lighting	15,000			
Upgrade to door on ramp - Flats/entrances	3,800			
<b>Environmental Works</b>				
Basic waste traffic lighting				
Subject to City Council approval				
Supply 4000 each poles @ 22.000 / 40000	88,000			
Supply 100 2000000	200,000			
Development of play area - Galston Street	300,000			
<b>Environmental work as follows</b>				
- Substrate to be removed and replaced				
- Removal of concrete shrub beds (200 x 4.2 per meter)				
- Fencing of communal gardens (2.20 x 22 per meter)				
- Fence communal paving and entrance				
(1077.50 per meter)				
- Brick walls (1.2 x 2.20 per meter)				
- Service landscaping (see separate drawing)				
(42,000 per property)	420,000			
<b>Improvement Work</b>				
General laboring and maintenance (7 @ 42,000 each)	294,000			
Painting of communal areas - Flats	17,000			
Painting of communal area - entrance	190			
Painting of communal area - maintenance	25,200			
Increased height of balustrade ramp	1,500			
Increased height of balustrade - entrance	22,770			
Rendering to upper floor - maintenance	51,200			
Demolition of walkways (2 @ 43,375 each)	86,750			
New walkways to replace demolished walkways	191,700			
(2 @ 43,925)	87,850			
Upgrade of balustrades - 43,700 - half of work	43,700			
Upgrade of balustrades - 43,772 - half of work	21,886			
<b>General Work</b>				
Work on repairs				
Wall to replacement				
Substrate replacement of entrance				
Underpinning etc.				
Work on...				
for house type 01 & 02 (2.7 x 2.7) - 4000				
for house type 04 (entrances) - 40,000				
for house type 05 (entrances) - 40,000				
Total cost for structural work	1,104,200			
<b>Total for all works</b>	<b>2,518,800</b>			

Charts that were sideways on the page were re-jigged so that they could be read as normal. Grey bars were added to aid legibility as were different text sizes and styles to help differentiate sub-sections.



A hierarchy of type faces and styles helped add an order to page summaries. An image and its caption helped fill out a page with too much white space on the right and too many single line (trailing) points.



# Public Domain



## PD on the Web

FOLLOWING the launch of *Acorn User's* Web pages, the site now includes a special section based on the PD page. PD Online is designed to complement the coverage of the magazine PD page, providing a range of information on the scene and its software. The site is split up into five main sections.

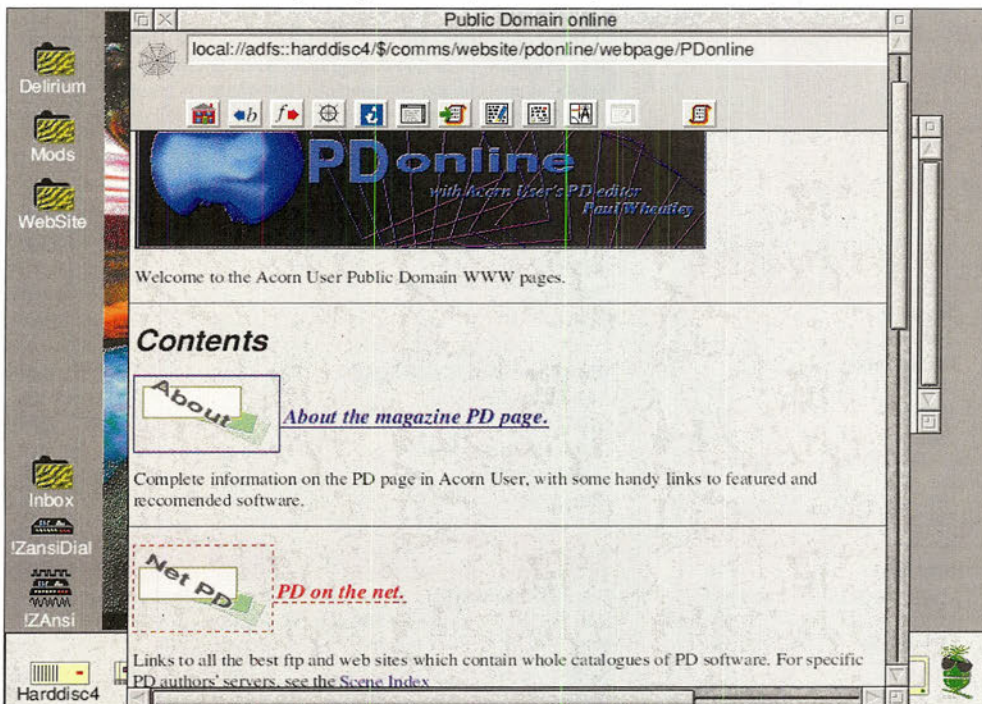
The first section provides links with the magazine page. Over the coming months I'll be adding links to software reviewed in the column as well as featuring programs that didn't quite make the PD page. The following two sections contain everything you need to know about getting hold of PD software. On the net, 'PD sources' provides links to all the main servers, and the offline section lists PD libraries to try.

The beginners section is quite a comprehensive collection of basic PD information. It's sort of a 'frequently asked questions on PD', in a hypertext format. Well worth a look if you're just starting

out to explore the PD scene, or if you want to get involved in starting up your own PD library.

The final section is a bit different from the rest of the site in that it's just the start of what will hopefully become a detailed scene database. The idea is to provide details about PD authors. Everyone from demo groups to lone utility authors will be included. I'll be adding to this section on a regular basis, but I need your help to make it work. If you write software and want to be featured, post or preferably e-mail some details about yourself to the usual addresses. I need a short description about the person or group, along with contact addresses and a list of software produced. If the software is on the net, I need net addresses to add links. If not, I may be able to include your software on the server.

Please have a look at the site and if possible, help me out with making it into a useful resource for everyone on the scene.



Acorn User's World Wide Web site gains some valuable new pages, and what more appropriate way to view them than by using *ArcWeb* or *Webster*, the Freeware WWW viewers?

## Acorn into gear

REGULAR readers will have noticed the frequency with which I fail to write comment sections praising Acorn's sales strategy with regard to the average enthusiast and PD fanatic. However, there's a first for everything, and this month I really need to praise Acorn's latest Clan Acorn moves.

Clan members buying new Risc PC machines can now claim

back a bundle of development software and manuals. The package is worth nearly £400 and includes the Acorn C compiler and PRMs. The PD scene and array of enthusiasts which Acorn is targeting with the Clan contains a vast wealth of programming talent which Acorn is now starting to encourage.

I really hope Acorn will

continue to pursue this line. There are so many things that can be done to encourage the development of software for the Acorn platform. And why not exploit some of the existing software in the PD scene? My computer seems bare without a good few PD applications in the boot sequence - why not start including the best PD utilities on the hard discs of new machines?

## Extreme possibilities?

French coding force Arm's Tech has nearly completed a collaboration with Belgian group BASS. The combined teams are working on a brand new demo which will probably be called *X-Treme*. Arm's Tech's front man, Frederic Elisei, informs me that the groups intend to get a bit more competition back into the demo scene and give German group, Xperience, a run for its money.

Highlights from BASS include a special Risc PC section and Frederic will be contributing some of his amazing texturing and voxel landscape routines. Looks like my own group Quantum is way out of contention on the demos scene right now.

## Meditation

The wacky writing team that brought us the four-course gourmet magazine that is *Lunchtime* has been hard at work developing its magazine editor. *Meditate* has now been updated with a new front-end program and a host of functional and aesthetic improvements.

The team also has a new game under development, but with his usual sarcasm, spokes-entity for the group, Andy, has launched a competition to guess the decade it's released in.

## The front end

Front-end programs for the *Queue* *The Music* tracker player seem to be all the rage at the moment. Simon Hatliff has just released a major update of his *PD Tracker* program which is available direct from Simon's Web site, at: <http://www.ed.ac.uk/~simh/files.html>.

Sounds Riscy is also working on a new release of its front end - *Q2Track*. This should be out within the next month, but you can keep up-to-date on its progress by checking out the group area in PD Unlimited on the Digital Databank BBS.

## Contacting me

You can contact the PD page by writing to me, Paul Wheatley, at *Acorn User*, IDG Media, Media House, Adlington Park, Macclesfield, SK10 4NP. Or preferably, by e-mail to [quantum@digibank.demon.co.uk](mailto:quantum@digibank.demon.co.uk) or online on the Arcade BBS.

## A3000 upgrades

### Memory

1-4Mb	£99
1-2Mb	£39
(See also the "2nd user" section)	
1-2Mb (upgradable to 4Mb)	£48
2-4Mb upgrade pack	£72
4-8Mb	£224

The above upgrades are all constructed on four-layer boards, as recommended by Acorn. Gold plated connectors are used for reliable contact with the A3000 main board. There are no clips or wires, and no soldering is required. Some older types of 2Mb board cannot be upgraded to 4Mb, but we offer a trade-in allowance. Please phone for details.

### Hard drives

A range of internal hard disc upgrades is available. The upgrades simply plug into the internal expansion slot. Also suitable for the A3010.

80Mb	£149
120Mb	£185
170Mb	£205
240Mb	£230

RISC OS 3	£39
ARM3 (25MHz)	£129
(Dealer fitting recommended for the ARM3)	

## A3010 2-4Mb RAM upgrade Introductory price £79

A3000 4Mb RAM £99

### A5000

#### Memory

2-4Mb	£74
4-8Mb	£234

Dealer fitting for the 8Mb upgrade is recommended for the 25MHz A5000.

### A3020/A4000

#### Memory

2-4Mb	£74
-------	-----

#### Hard drives

80Mb	£96
120Mb	£132
140Mb	£147

### A400/1

#### Memory

Per Mb (up to 4Mb)	£38
4-8Mb	£224
RISC OS 3	£39
ARM3 (25MHz)	£129

**Hard drives.** For prices, refer to the A310 section.

### Various

SCSI card	£79
Alsystems SCSI 2	£170
ARM3	£129
RISC OS 3	£39
MEMC1a	£39
Hard disc cradle	£6
Fan filters (pack of 5)	£3
RISC OS manuals, no vat	£22
Dongle dangle	£6
Chip extractor tool	£4
(for eg MEMC, ARM2)	
CDFS upgrade for Oak SCSI card	£25

**The following items are reduced to clear. Please phone to check availability.**

Artworks	£99
Wordworks	£25
Impression Style	£59

**How to order:** Please add VAT (17.5%) to all prices. Cheques made payable to IFEL. Most Credit cards accepted, and Switch. Official orders welcome.

**Educational and quantity discount available.  
Dealer enquiries welcome.**

## A3010 upgrades

### Memory

1-4Mb	£115
1-2Mb	£38
2-4Mb	£79

The 2-4Mb upgrade is constructed on a compact four-layer board. No soldering is required.

### Hard drives

A range of internal hard disc upgrades is available. The upgrades simply plug into the internal expansion slot. For prices, refer to the A3000 section.

## A310 upgrades

### Memory

1-2Mb	£89
1-4Mb	£119

All our A310 memory upgrades are constructed using four-layer circuit boards. There is no other 300 series RAM upgrade which has been available for as long as this one, and which has the same reputation for quality and reliability. A fitting service is available.

4-8Mb	£224
-------	------

### Hard drives

A range of internal hard disc upgrades is available. Prices below are for complete systems, including metalwork, controller card and cables as appropriate. No specialist knowledge is required either for installation or use. A backplane is normally required in order to fit a hard drive.

#### IDE

425Mb	£165
540Mb	£195
Larger sizes	£Call

#### SCSI

540Mb	£215
1Gb	£284

Backplane (4-slot, four-layer)

Fan for above	£8
RISC OS 3	£39
RISC OS carrier board	£17
ARM3 25MHz	£129
MEMC1a	£39

### RISC PC

#### Extra RAM (SIMM)

4Mb	£97
8Mb	£197
16Mb	£323
32Mb	£Call
SIMMs taken in part exchange (4Mb or larger).	
2Mb VRAM	£139

#### RiscPC600

4M, HD425 AKF60	£1148
4M, HD425 AKF85	£1426

#### RiscPC700

5M, HD425 AKF60	£1360
5M, HD425 AKF85	£1635
10M, HD850 AKF60	£1692
10M, HD850 AKF85	£1970
486PC card	£99
(when ordered with RISC PC)	

### 2nd User

Please phone to check availability.

A3000 1-2Mb	£27
A3000 RAM board	£5
(ie bare board, no chips)	
A5000 2-4Mb	£58
2-slot backplane (Acorn)	£15
4Mb SIMM (Risc PC)	£85

### Spares/Repairs

We carry stocks of most replacement chips for the Acorn range. (MEMC, VIDC, IOC and most memory devices). We can also fit any upgrades and offer a computer repair service.

All products (except some from the "2nd User" section) are fully guaranteed for 12 months. All items normally carried in stock have a 14-day money-back guarantee.

**IFEL**

34 Culver Road, Saltash, Cornwall PL12 4DR. Tel (01752) 847286. Fax (01752) 840029



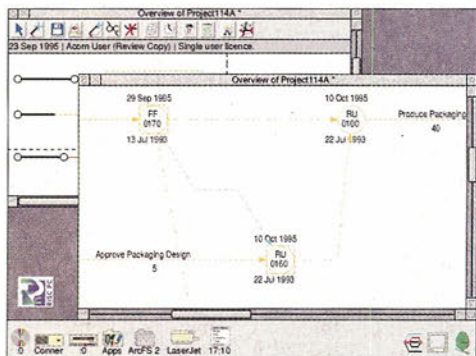




## Intuitive project planning

**ADVANCED** Computer Products has not only added a button bar but also keyboard short cuts to *ProjectING*, its project management package. With the exponential productivity benefits these enhancements bring, *ProjectING* is now a decidedly attractive business solution. Keyboard short cuts are implemented for all the main options – such as to turn the *Draw* mode on and off and to redraw an activity.

The software has always been intuitive; I learned how to use it within about ten



Version 1.10 of *Projecting* with its new button bar.

minutes. That said, ACP agrees with me that the resource facilities could be improved.

Unlike the first (PC) project management package I used – the now defunct *Pertmaster Advance* – networks are entered by directly drawing the network into the window rather than by using laborious tables. This, I feel, enables a heightened awareness of what one is actually doing.

*ProjectING* works with projects using network-based PERT charts, which enable complex projects to be viewed in detail. However, while such charts are ideal for the project manager, they can be a little overwhelming for customers. Instead, Gantt charts (which look a little like rotated bar graphs) are a more lucid solution; unfortunately, *ProjectING* cannot yet produce these. However, ACP admits that this is a major limitation and wants to implement them as soon as possible. When ACP does, the Acorn platform could well have an unsurpassed project planning package.

For a free demonstration disc or further information give ACP a call on (01256) 56666.

## PC data exchange

**ACORN** will be showcasing *PC Exchange* at Acorn World. This new utility for users of PC cards will enable users for the very first time to both drag-and-drop as well as cut, copy and paste between Acorn and Windows packages. This uses the Windows clipboard to transfer data, and will convert bitmap formats. Multiple items on the clipboard can be accommodated.

Unfortunately, this will not support the Adobe *Acrobat* 'standard' data-exchange format, though Acorn is looking at implementing this. *PC Exchange* will cost £25.

### Hints and tips

**DataPower:** Clicking with Adjust (the right-hand mouse button) on its icon bar icon opens up the directory display where *DataPower* is installed.

**Eureka:** A number of undocumented options can be set by altering the file:

*!Eureka.Resources.Settings*.

These include the typeface used for dialogue boxes and the width of the control panel.

**'z'-set:** Clicking with Adjust on the icon bar icon produces a new document based upon the template which is alphabetically first. If you have a number of templates for each estimate you produce, place them in their own directory inside *!Fireworkz.User.Template*.

## Bowing out

**AFTER** 15 issues of column writing it's time to sing my swan song so that I can go in search of greater opportunities – co-developing a Personal Information Manager for Apricote Studios. Working in close association with one of the companies which frequently features on these pages would obviously bias the coverage somewhat, so I'm letting the column go.

I will still be writing reviews and features for *Acorn User*, so you haven't seen the last of me on these pages. The business column is being given a rest for the time being, but if there is anyone out there who wants to take up the challenge of writing for the professional side of the market, we'd love to hear from you at *Acorn User*.

### My personal wish-list

- Gantt charts in *ProjectING*.
- A route-finding package, like *Autoroute Express* for the PC.
- A package where a postcode can be entered producing all the possible addresses it could relate to.
- Drag-and-drop in *Fireworkz* (as pledged several years ago).
- A Pentium PC card.

### Swifter PC cards

Because Windows 95 is a decidedly sluggish and subordinate operating system, it requires a particularly swift hard drive in order to function at a tolerable speed. Using a *DOSFS* partition on an Acorn hard drive is okay, but Windows' continual disc access can make this somewhat infuriating.

In response to this, Castle Technology has produced a 16-bit SCSI interface with the ability to format SCSI hard drives with intrinsic DOS partitions which, according to Castle Technology, offers a significant speed advantage. The interface is in fact capable of operating at 32-bits with an additional lead. These interfaces are available for all machines except the A4 portable. Prices start at £99 + VAT.

Castle Technology  
Tel: 01728 621222  
Fax: 01728 621179

### In the news

Acorn is on the lookout for people using Acorn machines in an interesting or extraordinary way. As Clan members will be aware, Acorn is building up a case-study library which it uses to suggest articles in the non-Acorn press.

Address: Newsroom, Acorn House, Vision Park, Histon, Cambridge CB4 4AE.

E-mail: [newsroom@acorn.co.uk](mailto:newsroom@acorn.co.uk)

### New online manual

By the time you read this, iSV Products will have added a more convenient, graphical and in-depth online manual to *TableCalc*, analogous to Computer Concepts' *WordWorks* as provided with the *Impression* range.

iSV Products  
Tel: 01344 55769

### Contacting me

As I will still be writing for *Acorn User*, if you wish to contact me, please write to Alexander Singleton, Acorn User, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP.

# Composition

drag and drop ArtWorks files

butterfly mask used as template for Vegas image

plane masked with ward and then anti-aliased

sky 'repaired' with ProArt 24 clone tool via OLE protocols

horse masked and blended

simple masking with ghost effect

drop shadow applied

edge and anti-alias filters used to tidy edges  
drop shadow added for emphasis

ArtWorks import masked in Compo

mask created in Compo and finished in ProArtisan 2

circular blend mask used

flower masked, smoothed and tinted. Opacity set to 50%

frog attacks Ayers Rock

**£169.95 inc VAT (P&P free)**

**Special offer price of £85 for ProArtisan 24 owners**

Introductory offer - £99.95 for users of other art packages

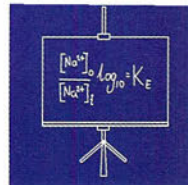


**CLARES**  
MICRO SUPPLIES

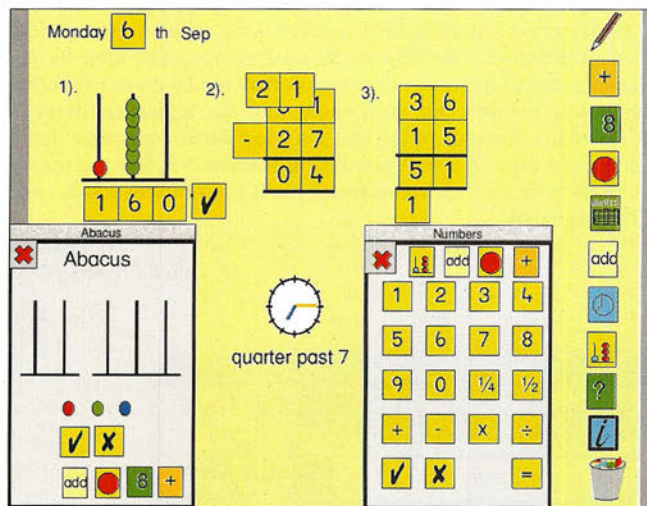
98 MIDDLEWICH ROAD, RUDHEATH, NORTHWICH, CHESHIRE CW9 7DA



# Education



## My World material



Special thanks to Dave Walsh from Information Training and Advice who has supplied some material for SEMERC's *My World 2*. Dave produces a great deal of support material, some of which is available through SEMERC or some of the major PD houses. This material is specifically aimed at Key Stage 1 and 2 Mathematics. On the cover disc is a *My World* folder containing a *Read\_me* file which outlines the history of the material and gives some explanation as to its intended use. The two folders called *Screens* and *SENmaths* contain the material.

Dave Walsh's address is included in the *Read\_me* file on the disc, but he may also be contacted on (01227) 369362.

### Electronic pen pals

Further to my note in the September issue about setting up e-mail pen friends, Stuart Longbottom, a professional Internetwork Consultant and managing director of Long Co and @theNET contacted me. Stuart would very much like to hear from any school around the world and will offer the first five schools who contact him a free page on his Web server for the next four years. I would also like schools from around the world who would like to e-mail other schools to contact me and I will publish their names and e-mail addresses in these hallowed pages.

Stuart Longbottom's e-mail address is:  
stuart@tengine.demon.co.uk

### Modem offer

I expect many schools will have taken advantage of Acorn User October's excellent modem offer. But now a word of caution; there are some images on the Internet which are unsuitable for school consumption. Before opening the Internet up to the whole school, ensure you have protected such areas with passwords. We are slightly better off than Mac and PC users because not many images are in native RISC OS format, although modern conversion programs mean that these images can be easily translated. Enough said.

### Cryptic plea

This plea is only cryptic if you don't know what ILS is. If anyone is using an ILS system on Acorns at their school I would be very grateful if you could write to me at either address below, telling me (briefly) the software you are using and your views about the system.

### Contacting me

You can contact the Education page by writing to me, Geoff Preston at Acorn User, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP or by e-mail to:  
gpreston@arcade.demon.co.uk

## One computer for each child

ACORN'S long-standing dream of one computer per child comes nearer with the announcement of reduced Pocket Book prices. The entry level Pocket Book II is now down to £205 with class packs of ten priced at £2050 which includes mains adaptor, desktop link and parallel printer link. Site packs of 1000 Pocket Books are also available at reduced rates.

Acorn Education  
Tel: (01223) 254254  
Fax: (01223) 254262  
E-mail: info@acorn.co.uk

### New price list

Code	Product	Price (+ VAT)
AHB05	Pocket Book II 256K	£205.00
AHB07	Pocket Book II 1Mb	£285.00
AHA20	128K RAM Disc	£42.51
AHA21	256K Flash Disc	£46.77
AHA22	512K Flash Disc	£76.55
AHA30	A-link	£42.51
AHA31	Parallel Link	£25.49
AHA35	Mains Adaptor	£12.72
AHA36	PC Link	£59.53
AHA37	M Link	£68.04
AHB12	Pocket Book II 256K Class Pack (10 units)	£2050.00
AHB13	Pocket Book II 256K School Pack (100 units)	£20000.00
AHB14	Pocket Book II 256K Site Pack (1000 units)	£192500.00
AHB17	Pocket Book II 1Mb Class Pack (10 units)	£2850.00
AHB18	Pocket Book II 1Mb School Pack (100 units)	£27500.00
AHB19	Pocket Book II 1Mb Site Pack (1000 units)	£260000.00

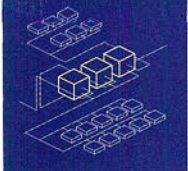
## Students' IT magazine

IT'S not normal practice to write a piece in one magazine extolling the virtues of another, but last week issue 1 of *Monitor* landed on my desk and it deserves a plug. I feel this is an important publication because it's aimed not at an adult market, but squarely at Key Stage 3 students. It's published by Philip Allan who also publishes successful

student magazines such as *Wideworld* and *Outlook*. It's a multi-platform magazine and includes articles by teachers and students. A single subscription (three issues) is £5 provided three or more issues are sent to the same address. Another reason for mentioning it is because the editorial team, *Educational and Multimedia Associates*, uses Risc PCs and

*Impression*. This is hardly surprising when you realise this team was responsible for the CD-ROMs *Langdale* (for Creative Curriculum Software), *London from the Air* (for PhotoAir Software Ltd) and the forthcoming *Mechanisms* (also for CCS).

Philip Allan Publishers Ltd  
Tel: (01869) 338652  
Fax: (01869) 338803



## On-line instruction

WHENEVER students use the network, sooner or later they invariably need some simple instructions on how to carry out a particular task. This usually involves calling me to answer questions such as, 'How do I change my password?', 'How do I print? from *Edit*', 'I've forgotten how to log on' and 'How do I save my work?' In these days of self-help and differentiated learning, I felt there must be some way of enabling students to find out the answers to some of the more basic questions for themselves quickly and without resorting to information sheets which become tatty and then get lost.

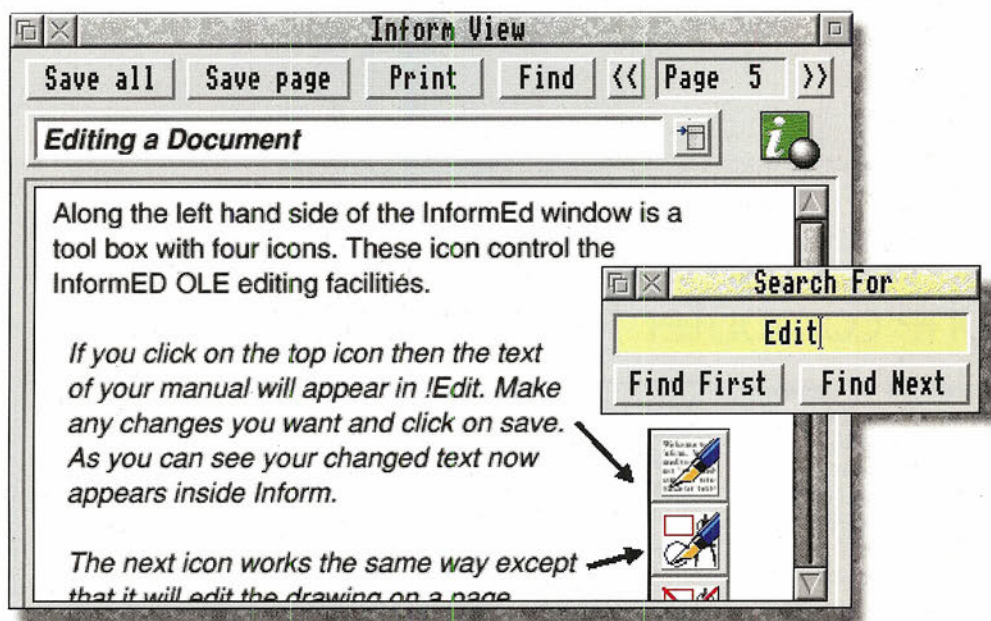
Aaron Timbrell at iSV has produced an on-line instruction application which is a greatly enhanced version of *Manual* is supplied with all iSV products. *Inform* will display pages of text (with accompanying graphics if required) in a small window. The text can be easily edited and highlights such as bold and italics included. There is also a search facility which will enable the user to search out the required instruction quickly, and the window can be scrolled therefore eliminating the restriction on the amount of text which can be entered on each page.

Aaron has written the program to be as network-efficient as possible. Graphics are only loaded when required and the scroll buttons do not auto-repeat, as auto-repeating could cause several graphics to be downloaded unnecessarily. Although the whole manual can be printed, the program

defaults to printing only one copy of the current page.

On the cover disc is *NetHelp* and *HowToUse* which were both created with *Inform*. *NetHelp* is the on-line 'manual' used by my students and while some of the details may not be correct for other networks - in particular, path names and disc names are likely to be different - the bulk of the text is a good starting point for developing your own on-screen instruction manual. To alter the text or to create your own on-line manual you'll need *Inform* which costs £25.00 from iSV.

iSV Products  
Tel: (01344) 55769



Good on-line help from *Inform* by iSV Products.

## Tip for the month

IF you manage a 10Base2 network, you'll know that if there is a break or a short in the cable run none of the computers on the network will work. Without expensive test equipment, tracing a hardware fault can be time-consuming. With the computers switched off, undo a network lead roughly in the centre of the cable run. Put a multimeter across the two terminals on the BNC plug on one of the leads and you should get a reading of about 50ohms. If you do, that side of the network is ok. If not, work your way down the leads until you find the fault. Starting in the centre at least means you can eliminate 50 per cent of the network.

### Contacting me

You can contact the Network page by writing to me, Geoff Preston, at *Acorn User*, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP, or by e-mail to: [GPreston@arcade.demon.co.uk](mailto:GPreston@arcade.demon.co.uk).

## Monitoring your printing

CONNECTING printers to a network opens up the possibility of consuming copious amount of paper. Children, given the chance, will print out anything and everything and often in triplicate. Room 20 software are just about to launch a program which should help reduce if not remove the problem.

*Quota* does two things. First it provides clients with a pre-determined number of printouts. Students will then be more thoughtful when they print something as there is a limit on the number of times they can print. The second feature is that it writes a log of who prints what and when so that people printing rubbish from the four corners of the site can be identified.

Setting up is straightforward and requires almost no maintenance (something I wish I could say about network printing in general). The file which determines who can print and how much can be printed is created largely from the user names held within *Level 4*. All the network manager has to do is enter a default number of copies per user.

Room 20 Software  
Tel: (01246) 856684  
E-mail [sales@rmtwenty.demon.co.uk](mailto:sales@rmtwenty.demon.co.uk)

# Notice Board

"...for rolling presentations Notice Board excels." *Acorn User*

Using Draw and Artworks files **Notice Board** enables you to create multiple-page, poster-like presentations that can run unattended in any location. Already widely used in schools, **Notice Board** provides a constantly changing set of information 'posters'. It is ideal for inf/sales messages at conferences and exhibitions and for waiting rooms, libraries, reception areas, etc. For use with RISC OS 3. **£35.00**

## MultiLink

Transfer data effortlessly between 8-bit BBC and RISC OS 32-bit computers - including the RISC PC. Easy-to-use click and drag operation. Machines linked by standard serial cable.

**£24.95.** With serial cable **£29.95**

## Notes

The sticky note pad for your desktop. Attach notes to disks, documents and directories. Set reminder notes to appear when you switch on or off! *Endlessly useful yet only* **£9.95**

## Softcrete

Password protect your programs and beat the software thief. Softcrete multiple-option protection restricts program use to just one or a group of machines. *Program security for* **£24.95**

## VideoTrak

Get your video film collection under control! VideoTrak lets you set up a fully cross-referenced database that gives instant access by film title, actor, director, etc. **£15.00**

## Twilight

The screen protector that provides a range of on-screen displays, auto boot options, password protection and more!

*For all RISC OS machines.* **£14.95**

## Z-Link II

The very easy to use Z88 - RISC OS computer file transfer utility that gives your old Z88 a new lease of life. Fully RISC OS compliant.

*Supplied with special cable* **£29.95**

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E-mail: [dturnbull@cix.compulink.co.uk](mailto:dturnbull@cix.compulink.co.uk)

Payment by cheque or PO payable to **The Really Good Software Company**. Official orders welcomed.



124 CAMBRIDGE SCIENCE PARK, MILTON ROAD,  
CAMBRIDGE, CB4 4ZS  
TEL: (01223) 425558, FAX (01223) 425349



# WINTER WONDERLAND!



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\*ACORN FORMAT UNLESS STATED

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**Normally £125 + VAT**

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### INDIGO 300iA

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£6.00 for Goods £100+  
Delivery to mainland UK only

**Delivery/insurance/packing\***

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Cardholder's signature \_\_\_\_\_

## 16 BIT SCSI CARD

Excellent low cost SCSI card upgrade for Acorn A300, A400, A540 and A5000 owners (can also be used as budget option with Risc PCs). Supplied with CDFS and SCSI Manager Software. **Normally £99 + VAT**

**SPECIAL OFFER £75 ex. VAT**

## 32 BIT SCSI II CARD

UK's most popular Acorn SCSI II Interface for Acorn Risc PC. 32 bit data transfer mode, Direct Memory Access and Soft Configurable Logic. New software update for Acorn World Show. **Normally £169.36 + VAT**

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Labtec high quality 10 watt stereo speakers. Frequency response 60-1500Hz. Ideal for Computer and Hi-Fi use including mains adaptor. **Normally £37.50 + VAT**

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# CUMANA

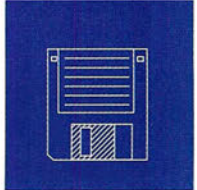


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# Cover disc



## The Big Picture

by Longman Logotron

**THE Big Picture** is Longman Logotron's new 24-bit painting package, and *Acorn User* brings you an exclusive demo of the software on its cover disc. *The Big Picture* will run on any machine with RISC OS 3.1, although to get the full benefit of some of its features you will need to run it in a 32,000 or 16-million colour mode.

Details of how to use *The Big Picture* are provided in a *ReadMe* file with the program, but getting started is fairly easy. First, copy the program out of the archive on to your hard drive (or a high density floppy disc). In particular, make sure you have a copy of *!Scrap* on your hard disc, rather than trying to use the one in the archive. You may then need to reset the machine.

Run *The Big Picture*; it will install an icon on the icon bar. Drag the file *Painting* to the icon and it will be loaded into *The Big Picture*. A window similar to the one in figure 1 will open, with a four-icon tool pane at the left. The top-left icon is a transparency adjuster; this will only be active in 32000, 16-million and 256-greyscale colour modes and adjusts the transparency of the tool being used. The other three icons open the three tool bars shown in figure 2. If they are clicked with Adjust, the tool bar is opened in a new window, if clicked with Select, the tool bar opens as an extension of the four-icon pane.

These icons provide a comprehensive set of tools for manipulating the image – the best thing to do is to play around and experiment. Further image processing options are available from the menu opened by clicking with Menu over an image.

*The Big Picture* provides a powerful way of using parts of pictures as motifs which can be painted onto a picture directly as repeated patterns or as textures (again, textures only work in more highly-coloured modes). A number of these are provided, but any part of an existing picture can be cut out as a motif and sprites can also be loaded as motifs.

This version of *The Big Picture* has a number of features of the main program disabled. It will not save or print, as is usual with demos, and also times out after a period of use. The full version will handle a number of different file types – JPEG, sprite, TIFF, GIF, Clear, Photo CD, *Draw* and *ArtWorks* – but this version will only load JPEG, sprite and *Draw* files. The full version also has a virtual memory system which is not present in the demo.

The full version of *The Big Picture* normally costs £69 + VAT, but if you send the cover disc 1 from this magazine to Longman Logotron you will be able to claim a 20 per cent discount exclusive to *Acorn User* readers. If you already have Longman's earlier painting package *Revelation* you can claim a 50 per cent discount off the full £69 + VAT price. Details of site licences for schools are given in the *ReadMe* file on the disc.

Longman Logotron  
Tel: (01223) 425558

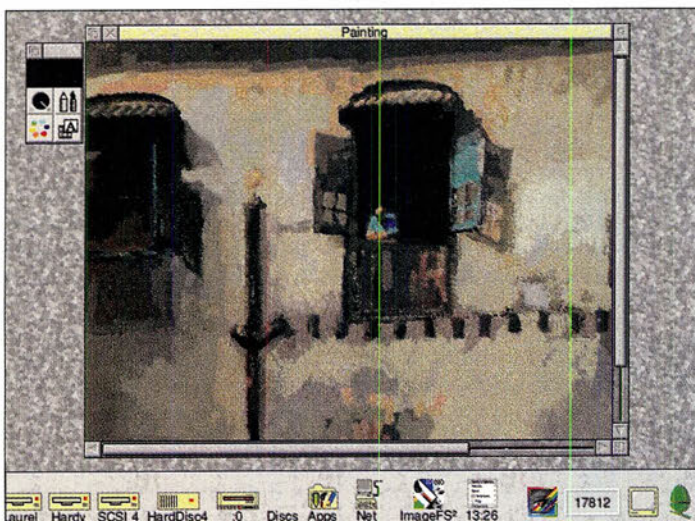


Figure 1 – the *Painting* file loaded into *The Big Picture*.

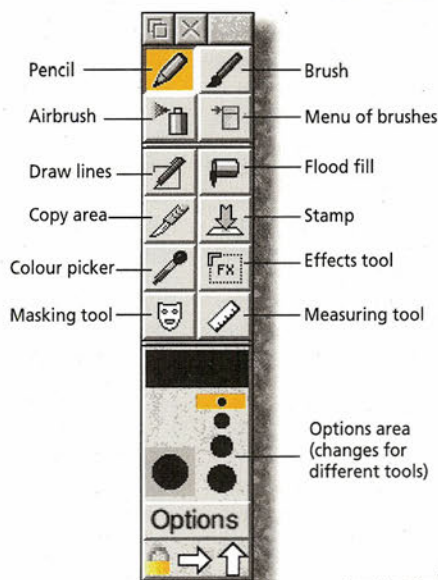
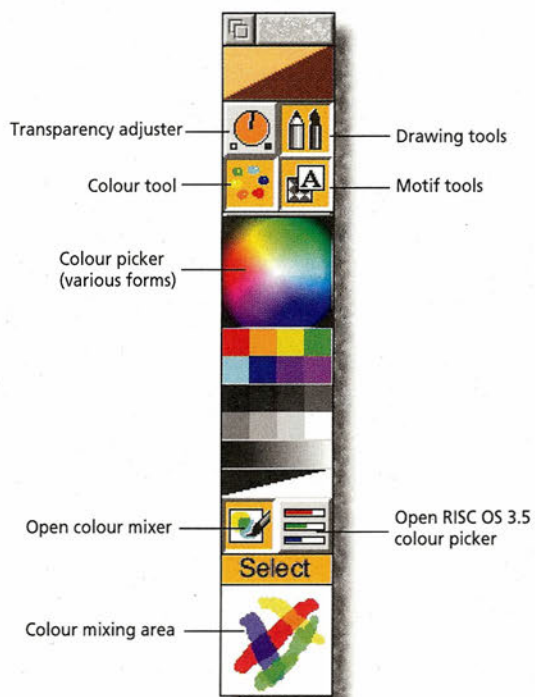
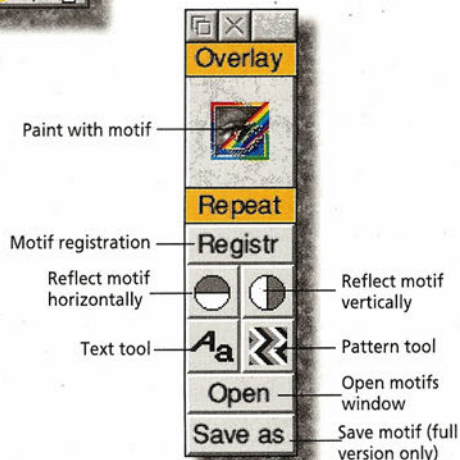


Figure 2 – *The Big Picture*'s three tool boxes. Note that these may look slightly different depending upon which mode you are in and which tool you are using.





# Spobbleoid Fantasy

by The Fourth Dimension

ONE of the surprise game hits of 1994 concerned the adventures of a small mechanical orange with the unlikely name of Spobbleoid. This game followed a long tradition of Acorn 'sliding block puzzle' games where a small, cute character beetles about the screen moving blocks around, collecting goodies and avoiding monsters. Now the followup - *Spobbleoid Fantasy* - has been released, and *Acorn User* has an exclusive demo on its cover disc.

Like all such puzzles, the game's not as simple as it looks. It's all too easy to slide a block irrevocably over one of the pieces of fruit that you're trying to pick up, or to arrange a set of blocks so that you can't move any of them. On later levels you get blocks which will only slide in a certain direction, blocks which need a key before they will move and - worst of all - blocks which become fixed after



a short period of time. Run the *Help!* application in the archive for details of what the various blocks you will encounter do and how to recognise them.

If the game is complicated, the controls aren't. You move Spobbleoid using the standard Z, X ' and / keys, and push blocks using Return (a joystick can also be used on the A3010). To push a block, stand at one side of it and move towards it holding down Return; the block will zip off at high speed, stopping only when it encounters another object. If you are lucky, you can squash monsters this way for extra points - on some levels of the full game you can only complete the level by killing all the monsters on that level.

The full version of *Spobbleoid Fantasy* - which includes 60 more screens, passwords to skip levels, and a game designer so that you can create your own levels - is available from The Fourth Dimension for £29.95 + VAT.

The Fourth Dimension  
Tel: 0114-276 9950

# Regular items

Various authors

THERE'S a host of useful programs hidden in this section of the cover disc, tying in with features in the magazine:

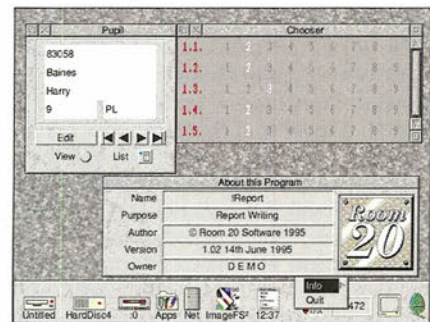
- **C tutorial:** The *C* directory has a short program demonstrating how to make simple SWI calls from *C*. All the program actually does is to return the coordinates of the mouse when Select is pressed, but it shows all the associated clutter that goes with making SWI calls from *C*.
- **Comms:** The *SerTest* program is a small utility by Acorn comms guru Hugo Feinnes to test the connection between your computer and your modem. The *ArcBBSList* is a list of Bulletin Boards run on Acorn machines with international phone numbers, Sysops and details of connection speed. The list was compiled by Steve Pursey, Sysop of Arctic BBS.
- **Education:** This directory contains a number of items. First up is a CSV file giving names and phone numbers of all the Acorn Education Agents, listed alphabetically by county or Local Education Authority. There are also two on-line man-

uals created using *Inform* from iSV Products - see the network page for more details. If you have *My\_World2* from SEMERC then you'll want to look at Dave Walsh's support pack for the program. This is aimed at helping a child who wants to present his or her maths work neatly, but is unable to master pencil control.

Lastly, there is a demo version of Room 20 Software's *Report* software for writing reports; full instructions are given in the *!ReadMe* file with the program. *Report* simplifies the task of preparing reports for pupils, taking information either from the school administration system or from data typed in by you. The demo version allows you to compile example reports but not to save, and does not include the support applications *OMRPrint* and *ReportEd* which come with the full version.

An article comparing the various report-writing packages for the Acorn will appear next issue.

- **Run the RISC:** This contains a set of BASIC routines for using the IFC interface which



Try out Room 20 Software's report-writing program *Report* with the demo version on the cover disc.

Mike Cook explains how to design in his article. There is also a full-blown *IIC\_Mon* program which monitors the signals from the IFC interface.

- **\*INFO:** This has the usual set of utilities, graphical oddities and programming illustrations which are all described in glorious detail in the \*INFO section of the magazine.

# Elite utilities

by Chris Davis, Ben Dooks and Andrew Clover

INCOMING message:

It has come to the attention of GalCop that some unauthorised Cobra upgrades have recently been distributed.

The first of these upgrades, *EliteEdit* by Chris Davis, allows a commander to alter his central records maintained by the GalCop computer. Not only can commanders obtain extra money and kill rating, they can also alter their criminal records and even change the

equipment on their ships; a task which should normally only be undertaken by skilled GalTec technicians. Missions - normally only awarded to hard-working commanders - can now be triggered at will, causing severe chaos at Galactic Mission Control.

Needless to say, GalCop

frowns upon the use of this program, and will prosecute anyone it catches using it.

The second upgrade is called *EliteExt* and is written by Ben Dooks and Andrew Clover who claim to come from an outfit called 'Doggysoft' (GalCop assumes this is a pseudonym).



This will allow commanders to identify any ships crossing their sights, and also provides an on-board clock and cargo indicator. Free with the upgrade is a complimentary pair of fur-covered cubical random number generating devices (fluffy dice) and a rear-view sticker.

GalCop frowns upon the use of fluffy dice, and will confiscate any found in your possession.



# Disc information

THE software on this disc has been compressed using ArcFS 2 from VTi. Unlike on previous discs, these are straightforward archives which are opened by running a copy of ArcFS and double-clicking on the archive to open it. There is a copy of ArcFS on disc one (and on previous cover discs). If you use disc two first, you will need to have seen a copy of ArcFS, otherwise the archive will not open; simply open disc one and try again.

Most software will run straight from the archive, but some programs (*The Big Picture* is an example) need to be copied out of the

archive before being run, uncompressing them in the process.

If your disc is faulty, you should test whether it will verify by clicking with Menu on the floppy drive icon and choosing 'Verify' from the menu. You should then either return it to TIB, TIB House, 11 Edward Street, Bradford, Yorkshire BD4 7BH (if it does not verify or is damaged) or to the editorial office at *Acorn User* (if it verifies).

The *Acorn User* cover disc has been checked for viruses using *Killer* version 2.101 from Pineapple Software.



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The family  
of the  
future?

## The Cambridge Trial

David Matthewman and Karen Peach went to Cambridge to meet a family who have been living for the past month with an Online Media set-top box in their house.

# At home with Online Media

**W**hat shall I watch on TV tonight? That simple question is about to acquire some real meaning. Up until now, what you watched on TV has largely been dictated by what the TV companies designed to show that night. Occasionally there was a clash, for which video recorders were tailor-made, but even with the explosion of channels brought by satellite and cable, it can still be a case of finding the least boring program to watch. One of the problems of a subscription service like satellite is that if you're paying monthly instalments for it, you tend to feel obliged to watch at least something every night, however dull it might be, just to get your money's worth. Sad but true.

How much better it would be if you could sit down and think 'what do I want to watch tonight?', press a button, and up the program comes. Of course, if you have the technology to do that, you're also likely to have the technology to offer a lot of other services as well, such as home banking and shopping, downloadable software and a wealth of information about local events.

### Enter Online Media

Just over a year ago, Acorn Computers announced that it was setting up a new division to look at iTV (interactive TV). Much of Acorn's technology is suited to the task, not least its experience with driving low-resolution monitors in schools and rendering text well using anti-aliasing.

The ARM chip's low power consumption is also important; the last thing any user of a set-top box wants is a noisy fan

cooling down the processor. The Online Media division of Acorn – with its partners SJ Research, ATM Ltd, LCL and Cambridge Cable – decided to set up a service structure unlike that in other tests.

Rather than attempting to provide all the services itself, Online Media concentrated on providing the infrastructure around which the services are based.

The services are provided by what Online Media terms a 'service nursery'; a collection of companies all using the Online Media infrastructure to deliver their own services. As Kevin Coleman explains:

'Online Media does not know about running banks, so it would be silly for us to provide an online banking service ourselves. The people at NatWest are the experts, but they themselves don't have any idea about providing an iTV network. By putting our expertise together, we can offer a combined service that's better than if either of us attempted it on our own.'

### Trial services

The service is still finding its feet. One of the advantages of the service nursery is that all the companies can sit round and discuss different approaches and solutions; it gets a number of potential rivals sitting round a table co-operating. The companies involved at this stage are as follows:

- Acorn Computers, offering educational services and software. Software written to run under RISC OS doesn't need much altering for a set-top box based around an ARM7500 chip; the main hurdle is the user interface.
- Anglia Multimedia, where Peter Stibbons has put together a package offering both its own CD-ROM multimedia and a range of local TV programs.
- The BBC, offering TV news bulletins and a wealth of archive material from BBC Radio.
- BMP DDB Needham, a large advertising agency who is working with its clients to produce interactive advertising.

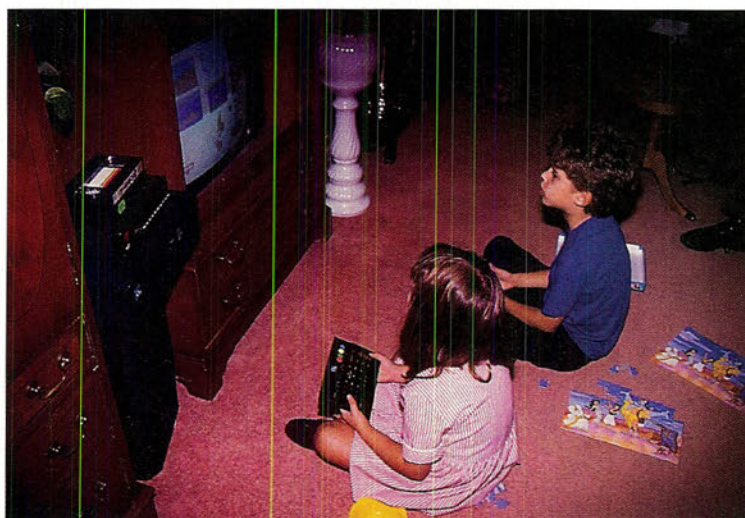
- NOP, the opinion poll specialist who is handling the user feedback and looking at the implications of the new technology for market research.

- Tesco, who is soon hoping to offer home shopping services to customers.

- Nat West, providing a range of home banking services.

- The ITC, considering the legal implications of the new technology. Particularly in the area of home banking, legislation has yet to catch up, and a number of useful services cannot legally be offered at the moment.

- ITN providing News At Ten.



Harriet learns about the animal kingdom by attempting to match each animal to its respective nest, hive or sett. She is holding the Online Media handset; the set-top box itself is sitting on the speaker to the left, with the Cambridge Cable decoder sitting on it.



The Online Media system is very easy to use; Joe claims that it took Alex all of five seconds to learn.

• The Post Office who is looking both at co-ordinating deliveries for some of the other providers and offering some of its over-the-counter services online.

So much for the theory. Most of the above services are already being offered to just over 100 selected homes and schools in the Cambridge area, delivered via the Cambridge Cable fibre-optic network. At the beginning of September, Joe, Claire, Alex and Harriet signed up for the trial, and we spent an evening with them finding out what they thought of Acorn's technology for the future.

### A night in - future style

It's no surprise to find out that the service is a big hit with the two children, Alex and Harriet. They sit in front of the screen, sharing the controller between them, working through some of the educational software and videos available. Alex proudly shows me some of his favourites, one in particular being *Calculating Kangaroo*. This features the exploits of an animated kangaroo and other animals as they explain addition, subtraction and so on.

Like all the best programmes of this nature, *Calculating Kangaroo* is both informative and fun. What makes the Online Media presentation of it so good is that Alex can call up the programme any time he likes, rather than being tied to when it's on in the schedules.

'If the kids want to watch *Calculating Kangaroo* at 7am on Saturday morning then they can,' explains Alex's father Joe,

'and they do. I've also seen Alex bring a friend home from school just to show him the set-top box.'

Alex passes the control to his younger sister Harriet who loads up some early learning software; she's learning to read. Each member of the family has an individual PIN number so that parents can control access to areas of the service that they'd rather keep their children away from.

Unlike *Calculating Kangaroo* which was an educational video, Harriet has chosen some interactive software where she has to construct a sentence describing the object; in this case 'I am the big wolf'. A selection of words is displayed and, with a little prompting, Harriet chooses the right words by using the buttons on the remote control.

Children's attention spans are notoriously short, but with the Online Media box they can change to something new when they get bored.

In general, Joe believes that the set-top box will make for fewer 'couch potatoes' as it puts people in charge of their viewing habits.

'I've noticed that sometimes when there are a couple things that you want to watch on TV you can spend all evening slumped in front of the box 'waiting for them to come on,' he says.

'With this system you can watch what you want straight away, and you haven't wasted all evening waiting for it to come on.'

You can catch up on things that you've missed, too. Joe was out when the last night of the proms was broadcast, but thanks to the BBC Radio collection he can just call it up and it's replayed in glorious stereo through his hi-fi.

In fact, the BBC Radio collection is one of the better resources on Online Media at the moment: everything from *The Goon Show* to *The Hitch Hiker's Guide to the Galaxy* and from John Peel's Saturday sessions to *File on Four* is available for download.

Other areas are still to come online. Home shopping is one where the details are still being worked out. Claire thinks that she'd use this a lot, but Joe isn't sure that it'll catch on: 'Shopping's a social thing,' he explains. 'I don't like shopping itself but the act of getting out of the house, going down the shops, meeting people you know - I can't see the set-top box replacing all this.'

At the moment, the service is still very much in its experimental stage. The range of programmes on offer is small, but the potential is there. The family agreed that when more films, documentaries and coverage of sports events became available - as they surely would in any commercial system - the service would really start to take off.

'Just using the system makes me think of all the possible things you could do with it,' Joe enthuses. 'It's very pro-active, and I keep coming up with ideas - train timetables, holiday programmes, playing chess with someone else on the system - which you could use it for.'

If the experience of Joe, Claire, Alex and Harriet is anything to go by then 'What shall I watch on TV tonight?' could be a very different question from 'What shall I watch on TV tomorrow?' **AU**



Photos: REGAN

'What interests me at the moment is mostly the news and radio; I like being able to watch the nine o'clock news even when I get in late.'

# Technology Matrix

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# Acorn's new

Last month, Acorn lost a lot of money; £7.9m to be precise which, for any company intending to be profitable, clearly signalled the way for change. The first change was the appointment of a new Managing Director, David Lee, who quickly identified the need for Acorn to both cut its costs and grow its revenue.

The cost-cutting exercise was the 'easy' part - easy to identify what should be done, though obviously not easy in the human cost of jobs lost - but the growth of Acorn's revenue was more complicated. David Lee believes that the solution lies in the focussing of Acorn's operations into its two main areas of expertise with the creation of two new divisions within Acorn: Applied Risc Technologies (ART) and Acorn Education.

## Marketing RISC technology

ART, headed by Peter Bondar, is made up primarily from the research and development part of 'old' Acorn. However, where as it used to operate philanthropically in the Acorn community, ART will now be run quite clearly as a business.

This very idea can set alarm bells ringing in the minds of people who don't believe that commercial interests can ever sit side-by-side with good research, but if you need a fine example of where this is possible, you need look no further than ARM itself, which continues to run at a profit while designing chips at the cutting edge of high-perfor-

What we knew as Acorn Computers effectively split last month into two new divisions: Acorn Education and Applied Risc Technologies. David Matthewman explains what they are, why they were created, and what this means for Acorn's long-term future.

mance, low-cost and power technology.

Inevitably some projects will be lost. Although it was reported in the news last month that the much-awaited colour portable was still on target, this now appears to have been put on ice. On the other hand, RISC OS is being constantly upgraded, though this will be branching out to support environments other than the Desktop for use as an OS in systems other than the traditional personal computer, as well as developing along tradi-

tional lines. ART's intention, then, is to design create and develop systems around RISC technology.

Peter Bondar explained that this will include PowerPC and other RISC processors, as well as ARM products. While some may seize on this as 'proof' that Acorn is abandoning ARM technology, in truth it is nothing of the sort; ART has every faith in ARM chips as pieces of silicon with a bright future, but sees no sense in restricting its operation.

The products - which ART's

mission statement poetically describes as 'entities' - will have both a commercial and a technological benefit to ART and its partners. They will be based around RISC technology, and an obvious and familiar example is the RISC OS range of personal computers which will continue to be developed for Acorn Education. Peter Bondar sees these as central to the ART range; their very existence allows him to market ARM-based systems as systems with a huge application base. We in the Acorn community are used to being a little defensive about the range of software available for our machines but, at the level that ART is trying to sell, the existence of (for instance) fast JPEG code built in to RISC OS 3.6 is a clear selling point. Very few competitors can offer what ART can without expensive development environments.

Acorn Education is, at the moment, ART's biggest customer for RISC OS machines by far, though they will also be sold to Value Added Resellers (VARs) such as AB Dick who markets the publishing system. Other ART products will almost certainly start appearing in a year or so, although whether we will know it or not remains to be seen. Details of ART's developments are commercially sensitive, and the final product will be badged and marketed by someone completely different. Suffice it to say that Peter Bondar hopes that in a couple of years you will be able to walk into Dixons and buy a



Peter Bondar, who heads ART.



Mike O'Riordan, Acorn Education's boss



# vision



## Online Media and ARM

In all the re-organisation, it is easy to forget about Acorn's other division, Online Media. This continues to develop set-top box technology (its research and development is separate from ART's) and is rapidly gaining momentum. We look at Online Media in a separate three-part article in the magazine, starting this month. Acorn also holds a 43 per cent stake in ARM Ltd, which is a separate company.

range of products which use ART technology, even if not a single one actually carries the ART logo.

While ART and ARM could, in theory, be competitors, Peter Bondar sees little conflict. ART has the expertise needed to get a product to market quickly, and in practice ARM often sends potential customers to Acorn to see its technology in use.

'While anyone can, in theory, buy an ARM chip and use the freely-available data sheets to design a product around it,' says Bondar, 'getting an ARM product to "hum and fly" is, well, an art form.'

Yes, they chose a sensible acronym for the division.

## Selling education

Acorn Education, headed by Mike O'Riordan, aims to sell Acorn computers into schools in a changing marketplace where customers are increasingly looking for a one-stop solution. Acorn is taking on an increasingly central role in this. The dealer channel changes – with the appointment of 25 'Education Agents' who effectively handle all Acorn's educational sales in fixed geographical areas – was the first manifestation of this. It allowed Acorn direct control over its sales channels; as Mike O'Riordan said, it's 'Acorn's market, and we intend to protect it and expand it.'

More centralisation is planned. The next Acorn catalogue (available in October)

will include a wide range of educational third-party software, not something Acorn has previously sold.

'Some software developers have poor sales and marketing,' explains Mike. 'They're simply not set up to produce and send

direct you to the software house anyway. We intend that our support staff will be able to answer questions on the whole range of products that we will sell.'

The most controversial and also the most encouraging development is the willingness of Acorn Education to sell PCs to schools that need them. This is a move that Mike feels should have been made a few years back and is emphatically not an abandonment of RISC OS. Make no mistake, Mike is a RISC OS fan, and Acorn Education will be continuing to push ART to develop the operating system for sale to schools.

## Jargon

**ARM:** Advanced Risc Machines, a company which sprang from Acorn and in which Acorn holds a 43 per cent stake. ARM designs high-speed RISC processors used in all Archimedes computers and the Risc PC (and increasingly in other areas too).

**PC:** Generic term for an IBM computer or compatible, usually running an operating system from Microsoft. Considered industry standard (though it very much depends upon the industry) and favoured by some schools for that reason, despite the belief of many that the RISC OS is a much better system to learn on. Clearly Bill Gates thought so, as Windows 95 looks like a poorly disguised (and poor) RISC OS clone.

**RISC:** Reduced Instruction Set Chip, a processor which executes a limited set of instructions very quickly (rather than a complicated set more slowly). RISC chips have been used in Acorn machines since 1987, and are increasingly being used in other computers – the PowerPC chip at the heart of a Power Mac is a RISC chip.

**RISC OS:** The operating system in the Archimedes and Risc PC.

out 25,000 glossy leaflets about their product. What we are effectively putting in place is an efficient sales and marketing machine for these developers.'

'We will admittedly be taking business away from some dealers – but only of educational software, which very few dealers hold a complete inventory of anyway. We can give better support for a product as well; if you phone up your local dealer and ask about, say, *Betsi*, he will more than likely

Unfortunately, trying to convince most schools to use Acorns for admin or GNVQ courses is a waste of time in practice, and Acorn is often tarred with the 'you only sell RISC OS, so naturally you say it's the best system' brush. If Acorn is offering both PC and RISC OS systems it will be seen as more impartial, and can get its foot in the door in RM-based areas that were previously barred to it.

Such areas will often buy Pocket Books in any case.

Pocket Books are a best-seller for Acorn and contribute to the excellent brand-awareness of Acorn in education; they may also feature highly in the rhetoric leading up to the next general election, if Tony Blair's speech to the Labour Conference is any benchmark.

Acorn Education is not intending to sell PCs into the Primary School market, where it already has a very strong grip, nor to home users. PCs are seen purely as a tool to get Acorn selling a wider range of computers into schools which otherwise wouldn't allow it through the door.

The home market, in the form of families, is also a target for Acorn Education. So are other home users in a way – they tend to be interested in the high-end systems favoured by enthusiasts, and the enthusiasts' Clan scheme is being run from within Acorn Education by Chris Cox. If Acorn Education is the success that is hoped, there may be plans to target the consumer market more directly, perhaps by setting up a new division, but that's not this year's priority.

Acorn Education will work closely with Acorn Education centres to offer the best and most up-to-date service for schools. Acorn Education has a commitment to train teachers to use IT effectively in the classroom throughout the country, and a training programme has been finalised.

For many schools – probably the majority – Acorn is still the preferred supplier, not just because of RISC OS but through its pedigree and knowledge in the area. By going on the attack, Mike O'Riordan hopes that Acorn can reverse its declining fortunes and sell more computers and services to schools than ever. **AU**



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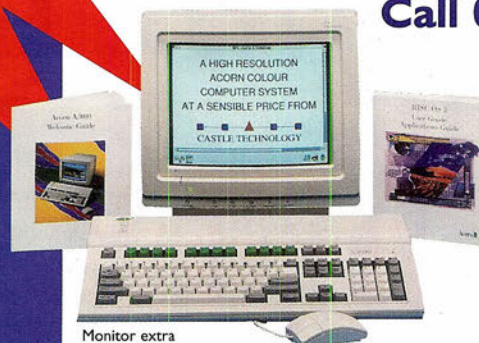


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# Unfinished business

REVIEW

**B**eta-testing is the term used when a program which is nearly ready for release is sold to real users, who buy it on the understanding that there may be bugs they can help to report and get fixed. These paying users are then rewarded with enhanced support and free upgrades as they become available. All the major commercial packages for Internet access are in beta-test at the moment, so it is worth remembering that what is reviewed here is not the final story.

Under consideration are *The Ant Internet Suite*, DoggySoft's *Termite Internet*, Argonet's *Voyager* and the two Freeware packages available from ftp sites and many Acorn Bulletin Boards. All these packages assume that you have an Acorn computer running RISC OS 3.10 or later, at least 4Mb RAM, 5Mb or more free on your hard disc, and for dial-up Internet access, a V.32 (14400bps) modem or better, a phone line, and an account with an Internet IP service such as Demon, Pipex, Cityscape and so on.

## The Ant Internet Suite

Supplied on one HD or two DD discs, the *Ant Install* program asks you for some basic information that your service will have given you about your Internet account, and places the Internet Suite programs in your chosen directory, with a choice of Internet connection via network or modem. Also included is a simple utility by Hugo Fiennes that detects the type of modem cable you have and tests your serial port and modem – you can find this useful program on this month's

cover disc. The word 'Configuration' freezes the blood of many new users, but Ant's *Interet Suite* already knows most of the details for about a dozen popular service providers, so only a few items need to be entered.

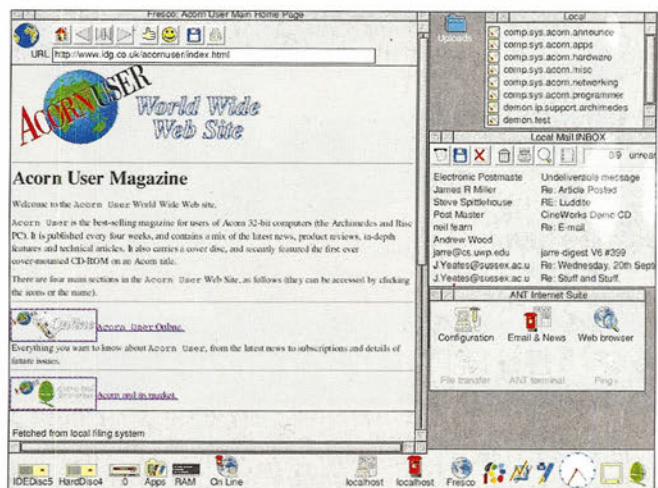
Currently, the suite consists of the *Marcel* e-mail and news client and *Fresco* – the WWW browser. More clients are in development such as drag-and-drop file transfer, Ant terminal and so on. Once a connection is established, 'Online' appears under the icon bar and you can then start web-browsing by loading the *Fresco* browser, transferring news and e-mail, and processing it with *Marcel*.

*Fresco* has a button bar at the top of its window with a box to enter the URL of a web page, and a pane at the bottom showing information about the page being fetched, and the function of the button currently under the pointer. A good feature of *Fresco* is that it displays the text of a page almost at once, then fetches any pictures afterwards, saving time when you want to follow a link to another page.

With a V34 connection, most pages arrive quite smartly. The text of the Acorn home page typically took five seconds to arrive, with the full graphics including a 60K image map arriving after 50 seconds. It copes well with the latest *NetScape*™ HTML extensions.

*Fresco* allows you to fetch more than one page at a time with multiple windows, although this can slow down fetches. The browser controls are comprehensive, but I'd like to see the release version

David Dade looks at the range of Internet software (nearly) available for the Archimedes.



The *Ant Internet Suite* offers integrated e-mail and news, plus Ant's wittily-titled *Fresco* web browser.

having the ability to drop a selected URL cut from a document into the box at the top of the window.

E-mail and news can be read and written by running *Marcel Lite*. Clicking on the newspaper shows a list of the configured newsgroups, and double-clicking on an entry lists the articles which are themselves displayed by clicking on them. You can reply to news or send mail, search through messages or save them to disc. The mailbox icon brings up a list of e-mail received, with similar options to read. File attachments can be easily added to outgoing mail or decoded from incoming mail.

Button bars of icons adorn these list and read windows, but there is no built-in help on the icon functions as *Fresco* has. In the pre-release version,

some expected features are absent, but Ant told me that a substantially improved version will be available shortly, as will a comprehensive manual to replace the draft documentation supplied on disc.

The *Ant Internet suite* aims to be the definitive Acorn Internet connectivity package by which others are judged. The other runners are pretty close behind as we shall see.

## Acornet

This is a compilation of Freeware applications bundled with a special configuration program by Phillip Temple. It consists of the *FreeNet* TCP/IP stack by Tom Hughes, *ArcWeb* browser by Stewart Brodie, *FreeTerm* by Tony Howat, and *SlipDial* by Graham Allan. When the archive is unpacked and *Acornet* is run, *Slipdial*

# integrex

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loads onto the icon bar, and a menu offers connect and configure options designed for Demon Internet subscribers.

Again, basic information about your Internet account is entered in the configure window. Clicking on the Install icon places the entered data into the applications; some unimplemented functions may be added in later versions of this configure utility such as search-by-dialling-code for the nearest POP.

*ArcWeb* is then run and

when its icon appears, clicking on it starts your WWW journey. *ArcWeb's* browser window also features a tool bar with built-in pointer-sensitive help, and supports many of the *NetScape™* extensions such as background images and colour-changing. The Acorn home page took 60 seconds to fetch and render, and the text appears in sequence with the pictures, so you have to wait for all the graphics to arrive before being able to read it all.

You can stop a fetch by

clicking on the spider icon, and you can fetch a page by dragging a text file of the URL onto the box at the top of the window. All the standard button bar functions are present and are duplicated by menus.

The program is supplied ready-configured for most uses, and you don't really need to change anything. There are some items you do need to set in the 'helper' application called *ArcWebTCP* that define your e-mail address and mail server which are not covered by

Phillip's setup program.

*ArcWeb* renders pages at least as well as *Fresco*, but takes a bit longer to render the whole document. There is an option to display pages without embedded graphics if required.

**Termite Internet**

*Termite Internet* is a package that enables the user to communicate both with Bulletin Boards in regular ANSI mode, and with the Internet using TCP/IP protocol. An installer program places the program where you want it, and automatically runs the Configuration utility, which sets up *Termite Internet* with your Internet account details.

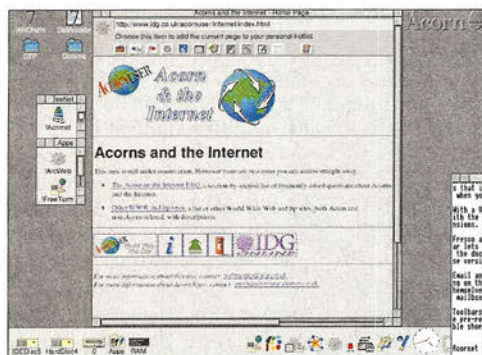
With the main program running, clicking on the icon bar produces a pre-configured menu of systems to call, including a list of well-known bulletin boards, the TI web off-line browser and 'Internet'. Clicking on the 'Internet' entry starts dialling, and when connection is established a window opens showing all the available client functions.

Clicking on the WWW icon starts the browser. The Acorn home page took 55 seconds to arrive and was rendered in four passes, each pass adding more detail than the last. You can configure one-pass rendering if desired; *NetScape™* extensions are also well-supported. Dragged-in URL texts are not accepted by the browser, unfortunately.

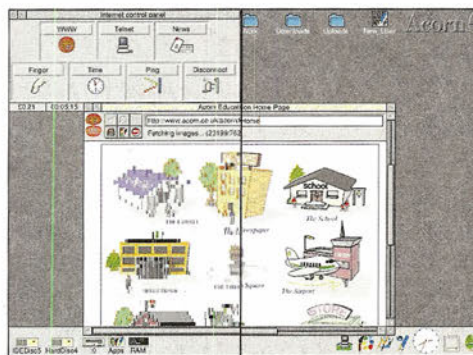
*Termite Internet* has a style editor which can be used to set up various features of the connection, and some quite important Internet proxy options seem hidden here.

Clicking on the news icon starts the transfer of news-groups while e-mail transfer starts automatically when the connection is established. All client functions can be turned on or off using the *TermiteIP* configuration program already mentioned.

News and e-mail are read and written with a separate application, *Offlite*, which is operated by a combination of clear arrow buttons and legend icons. *Offlite* finds and imports news and mail received, and offers messages listed by news-group to read and reply to. The



For straightforward, free software to access the WWW, *ArcWeb* and *FreeNet* take some beating, but you do need a large icon bar.



*Termite Internet's* WWW browser fetches large graphics in more than one pass, gradually building up the picture as it goes.

**Product details**

Product: The Ant Internet Suite

Supplier: Ant Ltd

Tel: (01223) 567808

Fax: (01223) 567801

E-mail: sales@ant.co.uk

WWW: <http://www.ant.co.uk/>

Price: £99 + VAT

Pros: Works over a network • Drag-and-drop ftp client promised • Good interface and set-up • Files may easily be attached to e-mail

Cons: Some clients not finished yet • Most expensive software

Product: Acornet

Supplier: Most BBSs, ftp sites and PD libraries

Price: Free

Pros: Free • Fast • Easy to use for WWW browsing

Cons: No e-mail or news posting yet, though this is promised soon

Product: Termite Internet

Supplier: Doggysoft

Tel: (01494) 673222

Fax: (01494) 675878

Modem: (01494) 681711

E-mail: sales@doggysoft.demon.co.uk

WWW: <http://www.u-net.com/~~doggysoft/>

Price: £79.95 + VAT

Pros: Allows BBS as well as Internet access • Good WWW browser • The most 'complete' commercial solution • Good interface

Cons: Not as 'network-aware' as Ant's software

Product: KA9Q and Webster

Supplier: Most BBSs, ftp sites and PD libraries

Price: Free

Pros: Free • KA9Q is a tried and tested solution • Better e-mail and news access than *Acornet*

Cons: WWW access is restricted (no forms) • KA9Q is a little awkward to use

Product: Voyager

Supplier: ArgoNet

Tel: (0500) 585586

Price: £59 inc VAT (includes initial ArgoNet subscription, see offer in this issue)

Pros: Comes ready-configured • Cheapest commercial option • Free telephone support

Cons: Currently tied to the ArgoNet Internet provider • Much of the software still under test at the time of the review



The Voyager package is based on a number of freeware packages – the Web browser will be familiar to ArcWeb users. However, the front-end and connecting software is all new, and the ftp client which allows drag-and-drop file transfer is excellent.

text of all messages in all groups is shown sequentially as you step through the list, or you can click on any one individually, or follow threads.

Replying uses whichever text editor you have loaded. You can mark sections of a message for quoting in your reply or save that section or the whole message as a file. The quoted text is re-formatted in the reply, and you can change the source message from which you are quoting while replying.

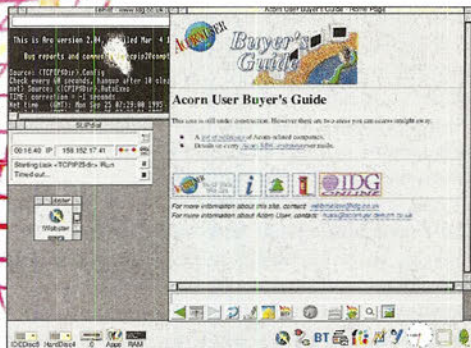
Termite Internet competes well in the Internet-connectivity stakes, and gives you access to all Bulletin Board systems into the bargain.

**Webster and KA9Q**

Andrew Pullan's Freeware Web browser Webster can be used with KA9Q, the pioneering

TCP/IP stack program by various authors, currently maintained on the Acorn platform by Anthony Frost and Adam Goodfellow. KA9Q can be set up quite easily using Colin Hogben's Freeware NetConfig program, which sequentially asks you for your account and serial system information and pre-configures the Starter Pack applications for you. All these applications are downloadable from BBSs as well as from popular ftp sites.

When a connection has been established via SlipDial and KA9Q, Webster is simply double-clicked to run, and opens a help index window. From here you can read comprehensive help information stored within Webster, and venture out onto the Web from a useful starting hotlist, or open an entry



That old favourite KA9Q is still very much an option for connecting to the Internet, though command-line based and therefore a little user-unfriendly. Although ArcWeb and Webster can be used with it, it works best with Webster.

window to type in a URL.

The Webster browser window features built-in pointer-sensitive help for the nice clear tool bar buttons, which can be placed at the top or bottom of the window. The usual options are offered and very comprehensive internal configuration options are available from the icon bar menu if you need them.

Webster took 75 seconds to complete the rendering of the Acorn home page, but was not quite happy with some other web pages. Some of the pictures on the IDG home page were placed incorrectly, and although some of the Netscape extensions are supported, backgrounds did not appear in the version I tested.

In spite of this, the Webster package looks good and

performs well, and there are lots of nice little details, like being able to save the browser window position for next time. The Freeware packages are in constant development, and by the time you read this there will almost certainly be a newer version of Webster available.

David Dade

**Voyager**

The Voyager software has been 'commissioned' by ArgoNet for the launch of its Internet service (see the special offer in this issue). The software wasn't quite ready in time for David Dade to give it a proper review, but a working version was sent to the editorial office.

Voyager is mostly a suite of special versions of previously-seen Freeware applications, attractively packaged with an integrated launcher application. It is based around the FreeNet TCP/IP stack providing dialler, web browser, e-mail and news readers, telnet terminal and an ftp filer.

The advantage of this package is that it comes ready-configured for the owner's new ArgoNet account and works straight away without further configuration, particularly if purchased with the recommended Sportster modem. The disadvantage is that it's tied to ArgoNet, at least for the moment. Readers with existing Internet accounts have asked if the software will be made available without the ArgoNet account or modem; this could of course be partly achieved by using the Freeware versions that are available.

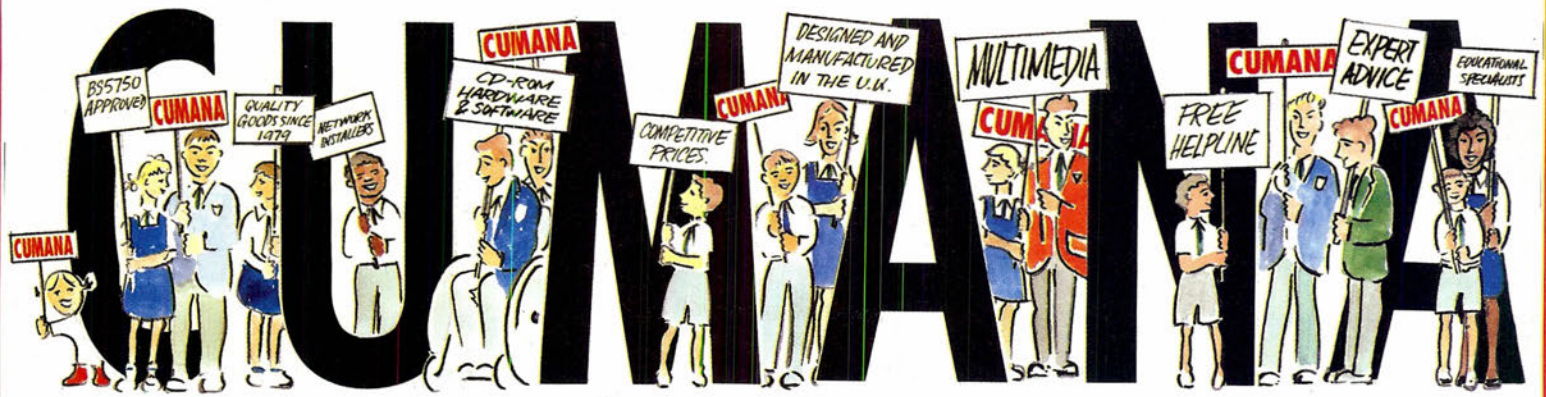
The Web browser is a thinly-disguised version of ArcWeb using the FreeNet stack, so much the same comments apply to this as to the Acornet package. The Acorn home page took a little longer to arrive than on the other packages, but I couldn't check what the modem connect speed was.

The e-mail and news readers are both nothing special, but the ftp client is excellent, with drag-and-drop and automatic filetyping supported. The Ant ftp client will be better when it arrives, but the Voyager one is here and working now.

David Matthewman AU

**RISKY BUSINESS** by Dave Howell and Paul Van Linden '95



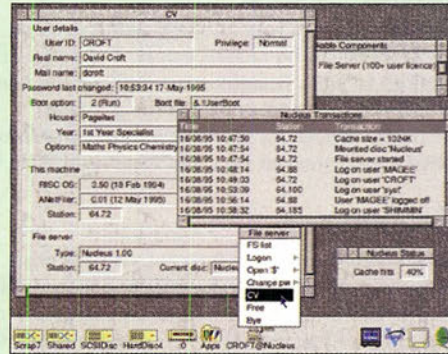


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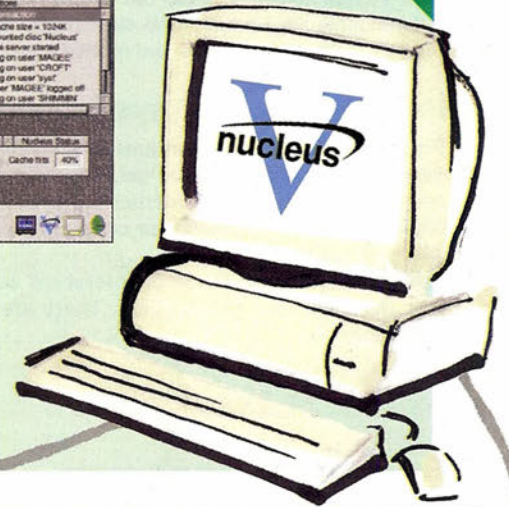
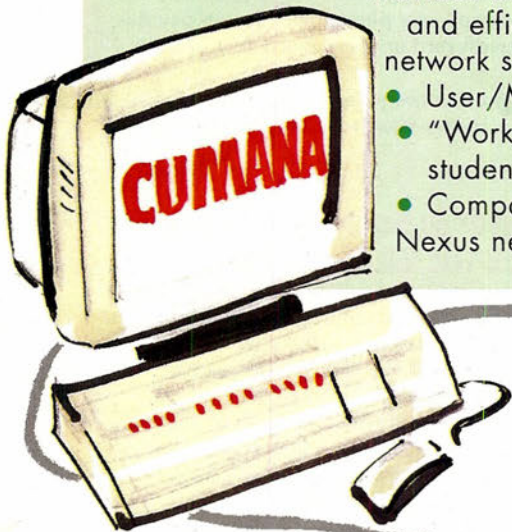
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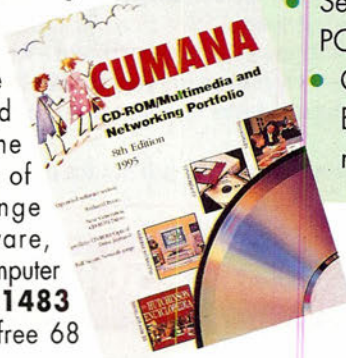


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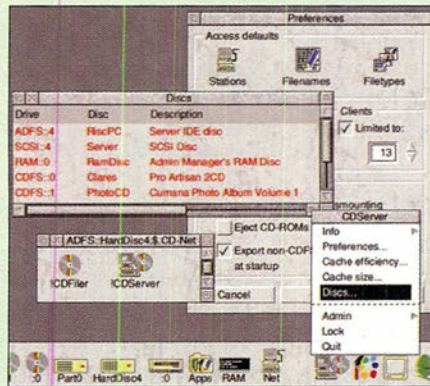
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Reader offer

# Internet bargain

## The Acorn User Internet Offer

Want to surf the Internet, but don't want to get involved in jargon or complicated configuring? Dying to look at the *Acorn User* web pages, but haven't got an Internet connection? Then you want our Internet pack, exclusively produced for *Acorn User* by ArgoNet, the new Internet company from the same stable as VTI and Eclipse.

Each pack contains everything you need to set up your account, and it couldn't be easier. All you need to do is plug in the modem, run the *Voyager* software pack, and that's it: there are no hidden extras. The software is programmed with your own personal password and account details, and is automatically set up to work straight away, without the need for any further action. And if there are any problems, there's a free number you can call for technical support as part of the package.

If you already own a modem, then there's a pack for you that includes the software and the connection for just £59 inc VAT. The software will enable you to post and receive e-mail, transfer files, surf the World Wide Web and more, all from a very easy-to-use interface.

## How much you have to pay

The packs shown below all include your connection to the Internet. As with other services, this has to be paid for on a monthly or annual basis, but with each pack you get free registration (normally £25) and one month's free subscription to ArgoNet. After this month, the cost of subscribing to the Internet is just £12.50 + VAT per month: there's nothing else to pay except your phone bill. You can pay this monthly subscription using your credit card, or you can save £15 by paying for a whole year by credit card or cheque, at a cost of £135 + VAT.

And because ArgoNet can offer local call access to 90 per cent of the population, you can stay online every day for two hours for less than the price of a pint of beer. There are no other hidden costs, so there's never been a better time to join the Information Superhighway.

### Offer 1: 28.8k solution £249 inc VAT

If you want the fastest access to the Internet possible, then you need our 28.8k solution. The modem included in this pack runs at a blistering 28,800 bits per second, the fastest speed commonly used on the Internet today. The pack, which has a RRP of over £350, contains:

- A US Robotics Sportster 28.8k modem
- Modem cable
- Pre-configured *Voyager* Internet suite
- ArgoNet registration
- One month's free access
- Pre- and post-sales support via a free 0500 number
- Courier dispatch

### Offer 2: 14.4k solution £189 inc VAT

If your budget is a little more modest, then our 14.4k solution is just for you. The modem runs at 14,400 bits per second, the most common speed for Internet users, and easily fast enough even for intense World Wide Web access. The pack, which has an RRP of £300, contains:

- A US Robotics Sportster 14.4k modem
- Modem cable
- Pre-configured *Voyager* Internet suite
- ArgoNet registration
- One month's free access
- Pre- and post-sales support via a free 0500 number
- Courier dispatch

### Offer 3: Software solution £59 inc VAT

If you already own a modem, then all you need to take advantage of our low-cost Internet service is the software – a full internet suite offering WWW browsing, e-mail, news file transfer – and the subscription to the ArgoNet service. This pack will work with all US Robotics modems and Hayes-compatible modems: if in doubt, ring our free 0500 pre-sales support number. The pack contains:

- Pre-configured *Voyager* Internet suite
- ArgoNet registration
- One month's free access
- Pre- and post-sales support via a free 0500 number



### Note for those with pre-A5000 machines

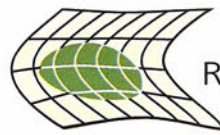
If you own an A300, A400, A3000 or A540 machine, then you have a slower serial port than in later machines, so you may experience problems running your modem above 9600 bits per second. As a result, if you have an older machine, you may not be able to get the best out of the modems on offer. With any pre-Risc PC machine the 28.8k modem will not run at its fastest speed.

However, if you purchase a fast serial port card – which we can supply for just £79 inc VAT – then you can run your modem faster with no problems. And, of course, a faster modem will save you money on your phone bill...

To order your fast serial port card, just tick the box on the order form.

**For more information, call free on 0500 585 586**





Reader offer

# Argo

- N - E - T -

JOIN THE INTERNET

## The Voyager Internet suite

The *Voyager* software provided with your ArgoNet connection is tailored to be incredibly easy to use. When you receive the pack, it will be pre-configured to include all the details of your account such as your password, as well as the best and cheapest number for you to call to access the Internet. It couldn't be easier, and no-one else provides such a simple service for Internet connection.

The *Voyager* suite seamlessly combines electronic mail, news reading, web browsing, file transfer and more, and integrates these functions so clicking on a web address in a newsgroup will automatically access that web site, without any more effort on your part. It really is that easy to use.

Other important aspects of the pack include: graphical ftp file transfer using icons and automatic log-on; full news and mail reader with editing, quoting, an address book and so on; web browser with support for virtually all Netscape extensions, hot lists, caching, sound, graphics, text and more; automatic log-on scripts for telnet; and security features to prevent access to certain areas of the net, so you can stop your kids surfing areas they shouldn't.

The *Voyager* pack is the most cost-effective Internet pack available, allowing simple access to all Internet facilities.



## The ArgoNet service

When you subscribe to ArgoNet, you get a unique e-mail address – like `mnoxon@argo.co.uk` – and access to full e-mail, news, web and file transfer facilities, all at a local call rate for 90 per cent of the population. All network links are provided by the well-known company Unipalm Pipex, guaranteeing quality network connections to the Internet in Europe and the United States, and ensuring that there aren't too many users for the modems available, so you don't have to wait ages for a free line (and that's guaranteed).

The ArgoNet service is complete: it gives you access to the full Internet, all without extra charges as there are with Compuserve. Argo Online runs its modem lines at 28.8k, and the technical support provided by ArgoNet is not only excellent, it's totally free. Best of all, as ArgoNet is a sister company to VTi, technical support for Acorn users will be the best in the country, so even if you have problems, there will be someone to help.

ArgoNet will also have its own World Wide Web site, with all the latest news from ArgoNet, VTi and Eclipse, as well as other areas of interest for Acorn users, both home and educational. Its ftp (file transfer) site will contain lots of Acorn-related files, and the news server will give access to well over 10,000 different newsgroups worldwide, including all the Acorn groups like `comp.sys.acorn.misc`.

The ArgoNet service: it's the best Internet service Acorn users can buy.

Please fill in all sections.

### Section 1: Personal details

Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_

Post code: \_\_\_\_\_

Daytime tel no: \_\_\_\_\_

### Section 2: Machine details

Machine: \_\_\_\_\_

Memory: \_\_\_\_\_

Modem (if applicable): \_\_\_\_\_

### Section 3: Order details

Please send me  28.8k packs @ £249 each

Please send me  14.4k packs @ £189 each

Please send me  Software packs @ £59 each

Please send me  Fast serial cards @ £79 each

Total cost: \_\_\_\_\_

I enclose a cheque/postal order, made payable to 'AU Internet offer', for the above amount.

Please charge my credit card, details of which are in Section 5.

### Section 4: e-mail address

We need to allocate you an e-mail name, but to make sure yours is unique, we need three different names from which we will pick one.

Please give three names, in order of preference, so for the name 'Mark Moxon' you could choose 'mark.moxon', 'markm' or 'moxy', for example.

Name 1: \_\_\_\_\_

Name 2: \_\_\_\_\_

Name 3: \_\_\_\_\_

### Section 5: Subscription payment details

**Option 1:** I would like to pay monthly by credit card (£12.50 + VAT per month)

**Option 2:** I would like to pay annually in advance and save £15 (£158.63 inc VAT).

I enclose a cheque for my pack plus my annual subscription.

Here are my credit card details (Access, Visa or Amex) – please charge me as appropriate.

Card number: \_\_\_\_\_ Expiry date: \_\_\_ / \_\_\_

I agree to allow my credit card to be debited monthly in advance after my first month's free access at a rate of £12.50 + VAT per month. I understand that I can give one month's notice to cancel my subscription at any time. ArgoNet will notify me at least one month in advance of any price changes.

I have paid £135 + VAT (£158.63 inc) for a year's access in advance.

I understand that ArgoNet will provide an ongoing Internet connection with private e-mail address and free updates to the *Voyager* access package as they become available, and that ArgoNet will endeavour to the best of its ability to ensure that all services are available 24 hours a day, 365 days a year and will, wherever possible, notify users in advance of changes to service.

Signed: \_\_\_\_\_

Date: \_\_\_ / \_\_\_

*E&OE. Please send this order form and payment to: Acorn User Internet Offer, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP. Please allow 28 days for delivery and account set-up. Offer closes 1 December 1995.*

Tick here if you do not want to receive promotional material from other companies.



## ARM710 upgrade

Some Acorn users believe there is no substitute for power. When Acorn announced the Risc PC last year with a number of upgrades to be released later on, those users started to jump with excitement. Unfortunately, it has been a long time coming; only at the end of July was the first upgrade released – the ARM710. The question is, was the ARM710 worth waiting for and have the bugs been ironed out?

When the Risc PC was first released, Acorn announced fixed prices for future upgrades, such as the ARM710. Acorn has stuck to their original prices;

	Processor		% increase in performance of ARM 710
	ARM710	ARM610	
	Time (seconds)*		
Loading of a 170K JPEG into IFYEO2	7.88	9.81	24.5
Loading of a 170K GIF into IFYEO2	1.81	2.01	11.1
Redraw of the Artworks CanonEOS Picture	10	13	30
Loading/Calculating/Displaying of a FineworkzPro File	11	14	27.3
Executing a Query of a 1000 Record File in Squirrel	2	3	50
Redraw of a Page in Impression Publisher	5	8	60
	Mean		33.8

Table 1 comparing the performance of ARM610 and ARM710 chips.

£25 upon receiving your Risc PC's old ARM610. There is no real reason for keeping the ARM610, unless considering Taos at a later date, which makes the exchange seem pretty fair.

It is very easy to fit the new processor; simply remove the old ARM610 and then fit the ARM710 in the same place. If you have a 486 co-processor, removing it beforehand makes the whole installation a lot easier.

Upon turning the computer back on, there is no obvious change. Acorn supplies an installation disk, which places a patch inside the *!Boot.Choices.Boot* directory and makes sure the caching of the card

works properly. The only reason for buying the ARM710 is for increased productivity on the Desktop. Table one shows a comparison between the performance of an ARM610 and an ARM710 fitted to the same 17Mb Risc PC. It shows that the ARM710 offers on average a 34 per cent increase in performance over the ARM610, which is exactly how Acorn said the processor would perform. The software patch that Acorn supplied with the card remains quite transparent to the user, which suggests that the bug fixes have been successful.

although the RRP of the ARM710 is £125 + VAT, £25 more than the original price quoted, Acorn does refund the remaining

### Product details

Supplier: Acorn by Post  
Address: 13 Denington Road,  
Wellingborough, Northants, NN8 2RL  
Price: £125 + VAT (£25 refundable on return of ARM610)

Pros: Easy to fit • Around 34 per cent performance gain

Cons: Risc PC only (obviously), but otherwise none

The ARM710 is certainly worth buying because the increase in performance can be quite dramatic in some cases. Although 34 per cent may not seem great, use the computer throughout the day and the increase in performance will become apparent. Some users may prefer to wait until the ARM8xx is released, but judging by the press releases it appears that this may not be until 1997.

Acorn had also promised to release an ARM700 with FPA (Floating Point Accelerator) option for the Risc PC. Unfortunately, this has not yet been released or completed, although the card should be released around the time that you read this.

Richard Barlow

### Product details

Supplier: SmartDTP  
Tel/Fax: (01332) 842803  
Price: £35 (no VAT)

Pros: Well presented • Well organised • Good hints and tips

Cons: No installer

## PublishArt

attractive. Many examples are shown, from newsletters to tickets, and they are all explained in depth. I found the information in the manual much more helpful to the casual DTP user than the heavy information which came with my copy of *Impression Publisher*.

*Publisher, Style, Ovation* and basically any other *Draw* or *ArtWorks*-compatible application including multimedia suites like *Genesis* or *Magpie* will load the files from the *PublishArt* collection, which is obviously of great benefit as they can be used many times.

The graphics are very well organised, and finding a certain image is simple; each sub-category is given a descriptive directory name, which eventually gives a number of files fitting the description. The only real way to improve this package would be to add some kind of installation utility with it, which did all the

copying and just prompted the user to change the discs every now-and-again.

This is not simply a heap of clip art thrown together in a couple of weeks; it's a well-organised collection of stylish artwork to improve any document a great deal. If you are looking for some artwork to enhance the quality of your work, then take a look at *PublishArt*, it could very well fit the bill.

Chris Jackson

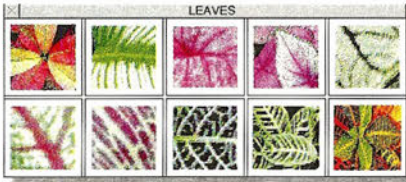


A number of files suitable for backgrounds are provided.

Most readers will have some clip art floating around on their hard drive or on floppies somewhere; it seems a good idea when you first see it, but how many of you actually use it to your advantage? Most available pieces of clip art are useless cartoon pictures which would look slightly out of place in a professional newsletter.

*PublishArt* is directed towards the amateur/semi-professional DTP'er who needs to brighten up otherwise boring documents with stylish art. It comes on eight 800K compressed discs, with a total of 13Mb of files. You can buy *PublishArt* in *Draw* or *ArtWorks* format, so it is compatible with all of the Acorn range, including RISC OS 2 computers.

A manual is supplied, and instead of showing every piece of clip art available (as many clip art collections do), it shows how you can use the clip art to make leaflets and manuals colourful and much more



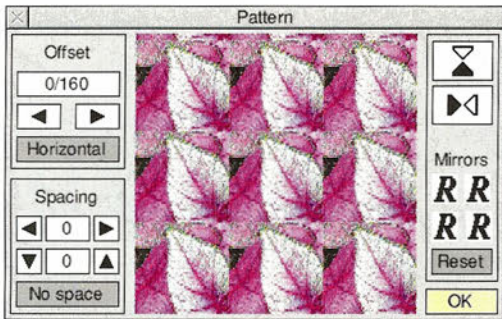
I cut out ten leaf details from digitised images using snapshot in *Paint* and collected them in a single directory, then installed them as motifs in *Revelation Image Pro*.

In the material world of furnishing and fashion, computers play an ever increasing role in new digital design. Patterns can be generated and colour combinations explored at the click of a button with great speed. So let's look at the tricks of the trade for Acorn users in the brave new world of textile design, right from the drawing board to final product.

Gathering source material is much easier these days, due to Public Domain image libraries, CD-ROM, Kodak Photo CD and – of course – the Internet. However, watch out for copyright issues, as many of the images may not be totally free for you to use. In my opinion, digitised images showing natural forms such as details from plants, leaves and textures or scanned original drawings have that original fresh flavour that often makes the best designs.

### Getting started with Paint

No matter where you look, the repeated image has a large part to play in design. Every day we see commercial products such as wrapping paper, carpets, clothing, wallpaper or packaging etc. with lively patterns, often in whole ranges of different colours. It is surprising to find out that *Paint* is a good starting point when it comes to repeating images – and it comes free with the machine. To begin with, try a small freehand drawing filling about one quarter of the screen. Then, using the small camera icon, it is possible to copy a



To repeat your design on a page in *Revelation Image Pro* select the pattern and then use the R icons and the offset and spacing arrows to repeat it in a number of different ways. OK saves the repeat details – the pattern can then be 'painted' onto a new page by using the paint roller on the 'Motif tiled' setting. The 'Colour shift' option will create a colour series from your original.

# A dedicated

portion of the drawing leaving a convenient rectangle guideline, so that you can accurately position and copy it again.

Try painting filled shapes over your original design with the OR, AND, EOR buttons pressed, and wonderful colour changes can be made. The designs can also be flipped vertically or horizontally and rotated if required.

*Paint* also has the extremely useful Snapshot facility – accessed from the icon bar – for capturing areas of the screen and saving them as small sprites.

### Other bitmap editors

*Artisan 2* (£61.95 inc VAT from Clares, the earlier incarnation of the more powerful *ProArtisan* and *ProArtisan 24*) is a powerful Mode 12 (16 colour) paint package which is probably the only bitmap software currently available which appears to be specifically designed with textiles in mind. Before you begin, it's a good idea to switch on the useful interactive help function on the main menu. Small freehand patterns can easily be drawn and cut out as sprites before moving to the Goodies menu containing the excellent 'Screen sprite plot' option. This allows the sprite to be repeated in different ways including options such as No drop, Half drop and Full drop which are textile designers' terms describing the position of a repeated image.

Having saved the image, you can try out the excellent 'Palette change' option on the Draw menu. You can redefine the palette and change all the relevant colours in the design by dragging bars in the window. The colour changes happen on screen, so you can create and save a 'colour series' from the original.

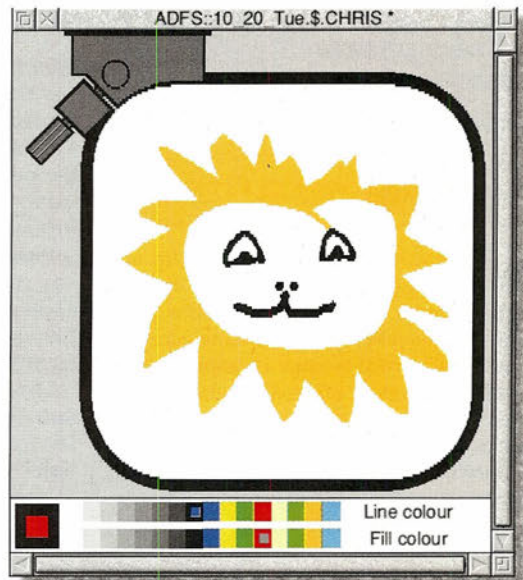
The *Spot* application on the *Artisan 2* system disc enables you to produce both process and colour separations so that the sprite even has registration marks printed. This means that if you want to create a stencil for a silkscreen print, just print out the spot colour separations and enlarge them through a photocopier for tracing onto stencil paper. Before

you attempt this, a word of advice; to begin with keep the number of colours in your design to a maximum of six. It's extremely interesting to try this with high-contrast digitised images such as self-portraits

*Revelation Image Pro* (£49 + £3 P&P + VAT from Longman Logotron) can also be pressed into service by the textile designer. One of the best ways to use this art package for textile design is to create a directory containing about ten small sprites. This directory can then be loaded into *Revelation* by dragging it into Motif on the main menu, which installs the resource images for access when required. Thematic directories of work can be developed once you get started.

### Poetry in motion

Creating a computer-generated artefact such as a badge or even a quilt is possible using the Poem Embroidery machine (around £1000 + VAT from Creative Textiles). At first sight it resembles a small robust plastic sewing machine which connects to the serial port of the computer. Once connected the Poem is controlled with the supplied *Poetry* software which



The Regent Special School in Sandwell decided to design its school lion mascot using Poem and the *Poetry* software, seen here. It was an exciting experience for the children to see their drawings on screen translated into a real embroidered design. After they were produced they were all stitched together as a unique large commemorative quilt; the final result looked highly professional. The lion designs were also used as the visuals for a school calendar which was sold to Sandwell schools.

# follower

Pete Worrall takes a look at how to get ahead in textile design.

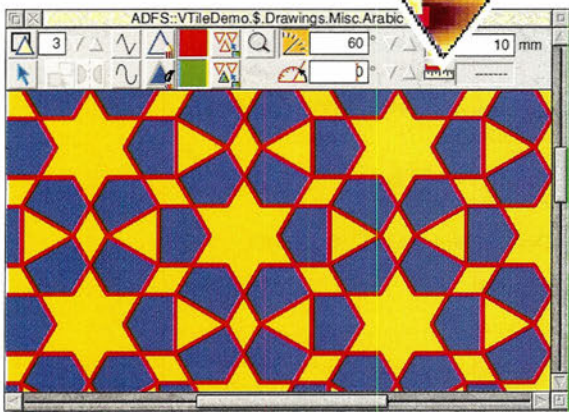
# of fashion

can be used for freehand artwork, as well as accepting imported *Draw* files and sprites. Work can be saved as a *Poetry* file or sprite.

Provided you have had some experience of *Draw* and *Paint* the software is intuitive. Preparing the Poem itself for action is straightforward; just stretch your material in the supplied hoop and thread the cotton. Selecting Embroider on the main menu will access the Poem control panel which will set the machine in action. When stitching, the colours are stitched from left to right taken from the colour bar in the main window and you have to change your coloured threads periodically. The average stitching time

One of my earliest attempts at *haute* (or *bas*) *couture* was designing ties with *ProArtisan*. My Integrex 132-colour printer had great possibilities at the time because it took a continuous roll of paper, so I joined three screens together after drawing a tie outline template which I filled with psychedelic patterns generated in *Arcol*. The three screens were printed producing a larger than life tie.

*Versatile* from Dial Solutions is excellent for generating repeated patterns.



from start to finish is approximately 30 minutes, but this varies depending on how many colours there are in the design.

The maximum size of the finished work is fairly small – around 12cm<sup>2</sup> – so it is best suited for group projects such as quilts or wall-hangings. It bridges traditional and new technology and allows for the manufacture of artefacts to a high commercial standard.

## T-shirt designs

JetWare transfer paper (£49 + VAT for a pack of 100 sheets) can be used in ink-jet printers for image transfer onto fabric. All you have to do is produce your design on screen using an art package. It's a good idea to experiment with digitised, scanned or Kodak Photo CD images. Don't forget to reverse the image before printing onto the paper (which is especially important if you have used text). Feed the special transfer paper into the printer so that the unmarked surface receives the print.

After printing, use an iron to transfer the image onto the T-shirt. The garment or fabric should be 100 per cent cotton or any cotton-poly blend; full instructions are included with the papers. Of course, if you want to look at your work prior to printing, why not digitise yourself wearing a T-shirt and cut and paste the design onto it for a sneak preview?

## Tessellation software

Tiling geometric and free-hand shapes is made easy with *Versatile* (£45 from Dial Solutions). Tiles can be drawn by clicking on the polygon tool; they snap

into place smoothly on screen and can be saved as a *Draw* file if required. Complex designs such as Arabic patterns can be generated with this software. For anyone hooked on simple or complex tessellations this software is an essential purchase.

While a definitive textile package is yet to emerge for Acorn users, there are still plenty of creative ways to explore and develop textile design solutions using what is available. **AU**



The 'Screen sprite plot' option in *Artisan 2* allows you to experiment with different arrangements as I did here with my freehand flower.

## Contact details

Clares Micro Supplies  
Tel: (01606) 48511  
Fax: (01606) 48512  
E-mail: sales@clares.demon.co.uk

Creative Textiles  
Tel: (01535) 213005

Dial Solutions  
Tel: 0113-232 6990

Longman Logotron  
Tel: (01223) 425558  
Fax: (01223) 425349

Quill Marketing  
Tel: (01603) 748002  
Fax: (01603) 748003

It's time to  
get *sensitive*  
about the way  
you *create*  
your graphics

.....

Many computer users feel that a graphics tablet is more natural to use than a mouse and without doubt it gives a much faster, smoother and higher resolution response. The mouse remains functional and can be used at the same time as the pen — however the pen has such a natural and precise feel, you will probably prefer it for many operations such as moving windows, drag and drop, region selection etc.

The new (approximately A6) ArtPad tablet offers a superb specification, even by Wacom standards; resolution exceeding 2000 dpi, 200 samples per second and 256 levels of pressure. All Wacom tablets include a cordless pen for added ease of use and flexibility.

The tablets are pressure sensitive, so in combination with suitable applications they can produce realistic effects such as variable width (the Eesox ArtWorks pressure sensitive tool) or variable density airbrush painting (PhotoDesk). The Computer Concept's drivers will be compatible with these and other software that can take advantage of the pressure information, such as Studio 24 and DA Picture.

Computer Concepts can supply the tablets with either Photodesk or the Eesox Pressure Tool at special prices. **PHOTODESK** is a photo retouching package from Spacotech, which offers a wide range of advanced image manipulation features; for example an airbrush, paintbrush and magic wand, full 24 bit colour support, the use of virtual memory, OLE with Impression, complete undo, effects such as colouring, toning and masking, motion blurring, cloning and smudge and smear.

The package contains the Wacom tablet (A6 ArtPad, A5 or A4) and manual, a cordless pen, Computer Concepts driver software suitable for all models of Acorn RISC computer (A3000 must have serial port upgrade) and PC drivers. Requires 1Mbyte or more.

Price: A6 ArtPad & drivers: £169 + VAT (£198.57 incl.) A5 tablet & drivers: £399 + VAT (£468.82 incl.)  
A4 tablet & drivers: £549 + VAT (£645.07 incl.)

ArtWorks Pressure Tool with tablet: add £10 + VAT (£11.75 incl.)  
PhotoDesk with tablet: add £125 + VAT (£146.87 incl.)

ArtWorks Pressure Tool: £39 + VAT (£45.82 incl.) PhotoDesk: £169 + VAT (£198.57 incl.)



Computer Concepts Ltd

# C Club Corner

Chris Jackson enthuses about the revival of a disc magazine produced by the Quantum group.

**N***ewDawn* was one of the first Public Domain disc magazines to hit the Acorn and lasted three issues before it was given a back seat by its producers Quantum to make way for more important productions such as the highly acclaimed *Liquid Dreams* and *Queue The Music*.

*NewDawn* was a good magazine when it first came out, and mutated into an excellently produced and presented magazine by the third issue. The demise of the magazine was a great shame, and I am very glad that Quantum has decided to bring it back to life.

Chris Hubball, the new editor of *NewDawn*, tells me that the magazine has been revived and will be received by Acorn users with greater enthusiasm than previous issues of *NewDawn* because of the many reviews and almost endless amount of articles, most of which are based around computing-related topics. All of the articles in the magazine are of the highest quality and graphics are used in abundance in the articles, which makes a nice change since the use of graphics is usually kept to a bare minimum on disc magazines.

When double-clicked upon, the *NewDawn* application loads an icon on the iconbar which proceeds to move around in circles revealing the words 'Quantum presents *NewDawn*', which looks very professional. The Desktop front-end allows you to set various options like a background sprite for the text and whether the music should be played in the Desktop or

## The Risc PC 486 Card



Over the past few months, the promise of a 486 PC card for the RISC PC has been enough to shut up most PC users who say - "The PC can do that better, why waste your money on a Risc PC?" My answer was "well soon we'll be able to choose which processor to use!" and now it's here, the 486 PC Card.

With Windows 3.11 installed on the PC partition, I booted up. It went into DOS nicely, and then called Windows, but all I got was a non-descript error. It took a few minutes before I realised that I hadn't got the Hard Drive unlocked (which is an option in !Configure in RISC OS 3.5). Although this is trivial, the emulator software should warn the user because you certainly don't know what's happened once you're in DOS, but I suppose nothing's perfect, especially in the first version.

With the Hard Drive unlocked, I tried again: This time everything ran as it should and Windows booted up nicely, and I was pleasantly surprised.

The latest issue of *NewDawn* contains an excellent article on the Risc PC 486 card. Note the attractive use of a textured background and the shot of the PC card.

not. You can also access the *NewDawn* resources directory by clicking on an option from the iconbar menu, which contains a number of files that link into the articles in the magazine.

One thing that has been concentrated upon this time in *NewDawn* more than previously is the world of communications. Cobra (the old editor of the magazine) has conducted a number of interviews with Sysops from some of the best BBSs around the country. There are also a number of articles on the subject aimed at everyone from beginners to sysops.

The graphics in the magazine are excellent and make the magazine very colourful. Light music is played in the background, as in previous issues, and of course it was all written

by the Quantum musician, Exel (Stuart Malcolm to the rest of us) and played by the highly-acclaimed *Queue The Music* pro-tracker player by Phoenix (Stephen Harrison). The graphical interface written by Chris Hubball is excellent and allows you to easily move between pages by clicking icons in the text. All the interface has a 3D design and looks very impressive. Icons can be pressed in an article to move to a certain page in the magazine, which allows for a hypertext-like engine, but Chris tells me he has tried to keep the actual workings as simple as possible so that anyone can operate it.

One article I found to be a very good read was the review of the 486 co-processor card for the Risc PC which contained a lot of useful information about

the use of the card with Windows applications. I also enjoyed the review of the excellent *PhotoDesk* software, which showed how the reviewer had used the package to cover over a large section of an image.

The magazine can be found on one of the Acorn BBSs or at a PD library, and is an 800K archive which shouldn't take long to download or fill much of a pic-and-mix collection.

### Conclusion

*NewDawn 4* is another example of the excellent work that can be produced by the Quantum programmers and writers. Get a copy from your local PD library or BBS and you won't be disappointed. I can only hope that the take-up of this issue will convince Quantum that they should start making the magazine on a regular basis. **AU**

### Contacting me

I would be interested to hear from any Acorn oriented clubs throughout the world (especially foreign clubs) to cover in this article. You can get in contact with me by e-mail at [Chris.Jackson@northarm.fidonet.zetnet.co.uk](mailto:Chris.Jackson@northarm.fidonet.zetnet.co.uk), via my own BBS 'The Northern ARM BBS' on (01274) 530831 (upto 14k4), RiscNet#7:44/101 or post at The Club Page, *Acorn User*, IDG Media Ltd., Media House, Adlington Park, Macclesfield SK10 4NP.

## The Thames Water Ring Main Project

There are lots of tiny things that make life that little bit more interesting, but one of the coolest is discovering that something you thought was a sort of everyday thing is in fact rather important.

For example, I drive through Holland Park in London at least four times a week, and there's a roundabout with a strange-looking sculpture in the middle. It's a kind of tall glass cylinder, looking not entirely unlike a large hypodermic syringe, with blue water spurting around inside. The level of the water varies according to some strange law of the cosmos, and it manages to make that joyous journey through the capital's smoggy haze almost worthwhile.

I always thought it was just *there*, for the hell of it, but I was wrong. You see, it's actually the top of one of the shafts leading down to the Thames Water Ring Main that supplies water to London. Heard of it? Probably not, but for all the right reasons.

### Digging for water

The Thames Water Ring Main is big. Huge, in fact. It's a vaguely rectangular tunnel that lies under London, is longer than the Channel Tunnel, and is big enough to drive a taxi through. Its water capacity is enough to fill 18 Albert Halls. In fact, it's the largest engineering project of its type ever, and was completed with almost no traffic stoppages, two years ahead of schedule. Because London is on clay, tunnelling was surprisingly easy, with the only serious challenge coming from the Streatham/Wimbledon fault, and at a total cost of £250m, the project was both cheaper and more eco-friendly than digging up the already chaotic streets of London.

The Ring Main works by gravity. Water enters the Main from the water treatment works and travels round both halves of the ring under the influence of gravity. It is then pumped out at 14 sites round the region to be distributed locally, so Londoners will have plenty of water well into the next century. It's also one of the reasons why we Londoners could hose down our cars and take long, hot baths this summer, when other areas were on standpipes.

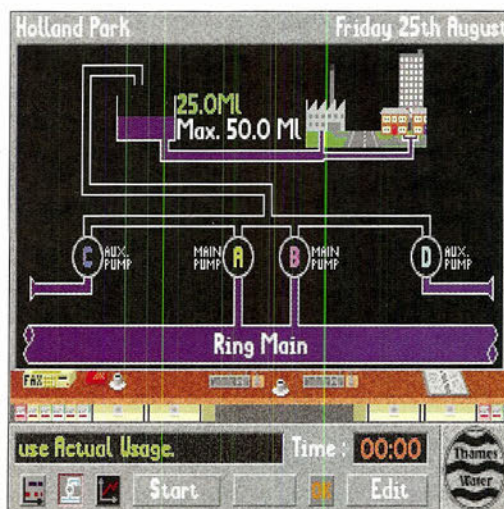
### James Pond to the rescue

So, Thames Water has a phenomenal piece of engineering, but none of us have heard of it. It just goes to show that you only hear about things when they go wrong or they're delayed – witness the Channel Tunnel – but there's a serious amount of potential for education in the story of the Ring Main.

'We wanted to promote the Ring Main from a normal press angle, but also from an educational point of view,' says Claudette Andrews of Thames Water. 'So we put out a bid for educational projects based on the Main, and we chose Skillsware. It's worked out very well,

Skillsware has produced a unique piece of educational software based on the Thames Water Ring Main. Mark Moxon took a trip to Thames Water and discovered that there's more to water than meets the eye.

# Ringging the



In *Running Water* you have to control the pumps A and B over 24 hours to minimise pumping costs and water waste. It's not easy.

especially as we have no other computer products at present.'

Simon Lovesey, chief mentor at Skillsware, came up with the idea for using that colourful character James Pond in the package, an obvious choice as Gamesware had recently converted *Robocod: James Pond 2* for the Acorn platform.

'It's been a real eye-opener for us,' says Simon, 'seeing how the Ring Main works, and how complex it all is. We worked very closely with Thames Water, particularly Mike Brophy, modelling scenes in the program directly on the real-life situation at Thames Water. For example, the shot of the water controller's desk includes Keith the water controller, looking just as he does when operating the water flow on the main.'

'The controllers were really impressed,' says Claudette. 'The Chief Executive saw it and thought it was great: he remembers when all the controlling was done on

paper, so that says something.'

'We showed the package to schools for feedback,' explains Simon, 'and the messages from this altered our original design quite a lot. Teachers told us that they could never tear their students away from Gamesware games, and after talking to them we realised that the combination would lead to a useful and popular educational resource. It's worked out rather nicely.'

'And it's great for us,' added Claudette. 'The kids learn all about the water cycle, so it's not just a game, it's an educational tool, and it's all good publicity for the work we do at Thames Water. For example, at an industry event where we got students to use the program, one group got a lower score than their friends. They blamed this on having smaller reservoirs and adverse weather – they were justifying their performance in realistic terms, and were understanding exactly what we have to do every day with water supplies.'

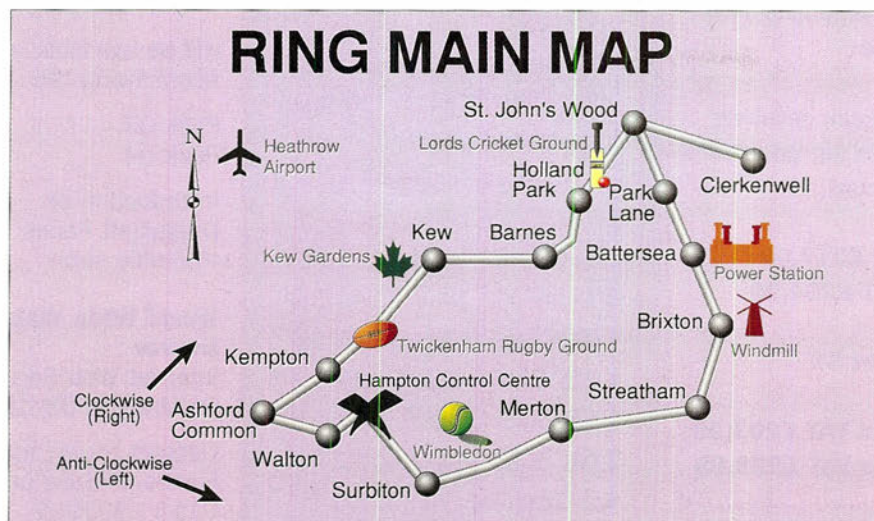
### The primary package

So what does the package consist of? Well, it's split into two separate programs: *James Pond Underwater Agent* for the primary sector, and *Running Water* for secondary Key Stage 3-4 students.

These come in the same box, with one manual between the two.

*James Pond Underwater Agent* is





A simplified map of the Thames Water Ring Main.

**Conclusion**

The *James Pond* package is a classic example of the successful combination of real life, fun and education. Its value in schools is obvious, but I would highly recommend it for home use as well, and not just for those in the London area. The concepts are universal, and all children will benefit from understanding our water systems.

*James Pond Underwater Agent/Running Water* is highly recommended, despite its price tag. It'll make sure you don't take water for granted, and it'll ensure that you can tell all your friends what that thing is in Holland Park roundabout; excellent stuff.

# changes

instantly recognisable as an arcade game based on the character of James Pond, but there's much more than just playing a game. As *James Pond* you have to guide your friend Ronnie the Raindrop through the various processes that takes water from the source to the tap, working your way through the six stages: source, storage, treatment, ring main, service and distribution.

For each of the stages you get shown a number of screens full of information about that particular stage. For example, in the 'source' stage, you find out about different types of cloud and why you shouldn't swim near collection pipes; it's important to take all this information in, because you're asked multiple choice ques-

tions about it later, after the arcade section. Each of the six areas has a number of different sections, and by the time you've got through to the kitchen tap, you've learned all about the processing of water. It's great fun, and educational psychologists will have endless fun showing that this proves the 'carrot before the donkey' principle of education.

The manual also contains a large number of suggested activities linked to the concepts in the game - like making a home-made water filter - with a table for each showing which areas of the National Curriculum are covered.

**The secondary package**

*Running Water* is a different kettle of fish all together. While *James Pond* is a game with educational content, *Running Water* is an educational program that simulates the job of the Thames Water controllers. Your aim is to make sure that your chosen area of London doesn't run out of water, while keeping pumping costs down to a minimum.

There is a lot of information to balance, and it takes quite a few ges

to get the hang of the program. Almost everything is here: weather reports; information databases covering electricity costs, population demands and so on; balancing your reservoirs; controlling the individual water pumps that control your supply. The first few times you'll end up with massive costs - and, if you're like me, flooded reservoirs and maddened customers - but that's the beauty of this program. You keep trying, working out why you went wrong, and in the process you learn all about the Ring Main.

As if the simulation wasn't enough, you can export enough data from the program to keep higher level statisticians happy for ages. The data used is all genuine, so the program can be used to provide graphs and figures for all sorts of projects on the Ring Main, in **AU** Maths, Geography and Science.

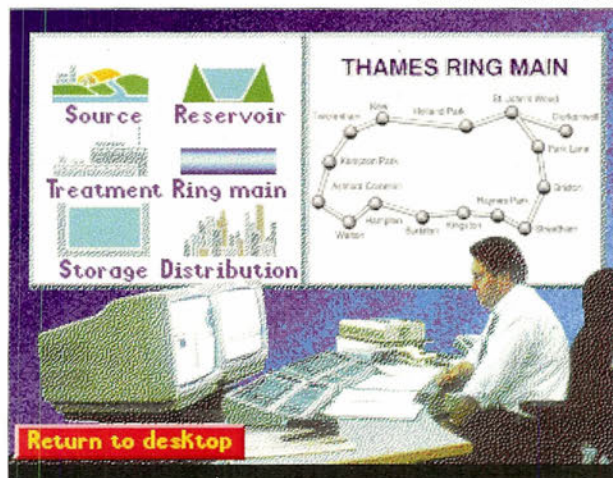
In *James Pond* you choose the six stages from the main control window, which shows Keith the controller hard at work.

**Contact details**

Product: James Pond Underwater Agent/Running Water  
 Supplier: Skillsware  
 Tel: (01703) 456523  
 Price: £35.99 inc VAT. Site licence available separately.

Pros: Makes learning fun • Highly relevant, especially after this summer  
 • Excellent teachers' notes included

Cons: Better value for schools than homes



FEATURE

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 Email Stuart at Stuart@tengine.demon.co.uk

Please note Email Address will change when Web Server Comes online

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### Modems:

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Supra 14.4: £120.55  
 Supra 28.8: £165.70

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External: £210.00 ex VAT  
 Internal (Active PC Accelerator Card): £365 ex VAT

### Modem Prices:

U.S.Robotics Sportster 14.4: £135.00  
 U.S.Robotics Sportster 28.8: £185.00

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 Email in advance of order and we will be happy to get the order placed while waiting for the cheque to arrive in the post.



# Letters

## The cost of images

As the developer of the *PhotoBase* software and the Editor of the Hulton Deutsch CD-ROMs, I was naturally pleased to see the *PhotoBase Decades* CD-ROM from Longman Logotron mentioned in your last issue.

Your reviewer suggested that the discs were rather expensive as resource materials go. In defence, I would like to point out that Hulton Deutsch Collection Ltd charges design studios and publishers around £75 per usage for images from its photo library. Once this is realised, 2500 easy-to-find images per disc at £49 + VAT begins to look like a real bargain – especially when the user has unlimited use for educational purposes and within the purchasing site for lectures, presentations, projects, DTP, montage work and even T-shirt printing.

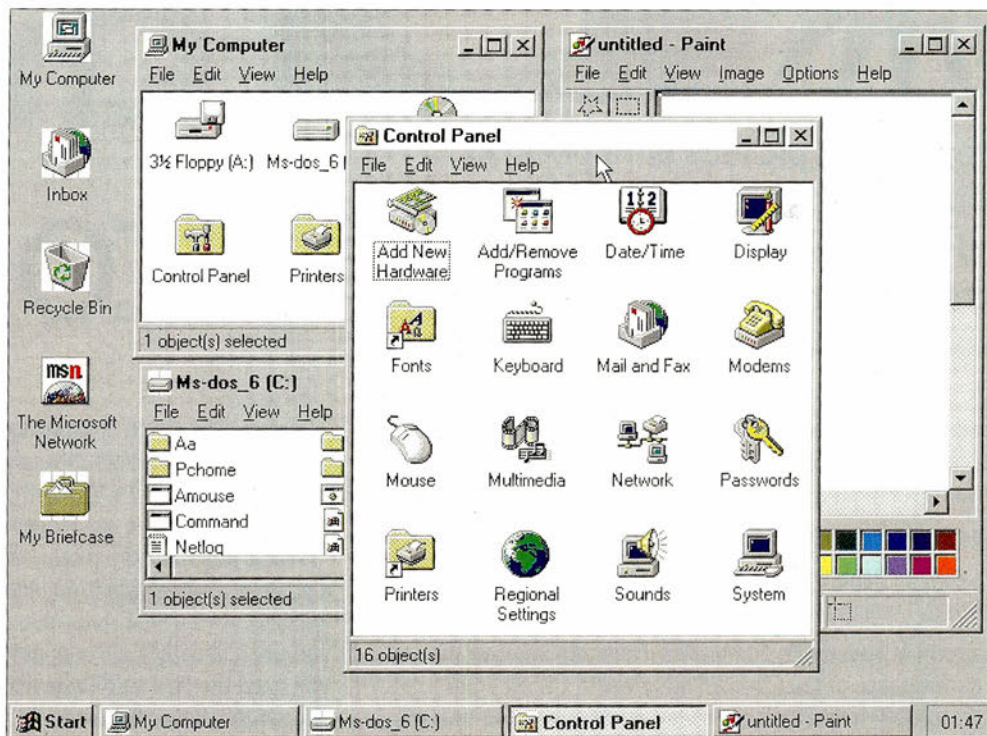
If that were not enough, every CD-ROM includes a site licence copy of the *PhotoBase* application. This can be used with the user's own collection of images to extend the database or to develop entirely new resource libraries, archives of children's work, slide-shows and so on.

Incidentally, if anyone does want to use any of the images commercially, they can be ordered direct from Hulton Deutsch (21 – 31 Woodfield Road, London W9 2BA) using the *Decades* filename or access code.

**Mick Cooper**  
Cambridge

**Well, what we said was that at £49 per disc this was not a cheap resource. That doesn't actually imply that the disc is bad value, rather that schools on a limited budget should think carefully before buying the complete six-disc set.**

**Having said that, it is true that people often do not appreciate that the images on CD-ROMs – or the Internet – are usually owned by someone who will often charge a substantial fee for their**



A familiar interface with a few good features, but Windows 95 shows no real technical innovation.

**use. Looked at in this context, many image collections represent great value for money. (DM)**

## Charging for support

Over the last few months, I have noticed various references and comments in *Acorn User* about companies charging for technical support. I believe it is a big mistake for software companies to do this, particularly in the small Acorn arena.

The major objection to charging for support is that it cuts companies off from their users. Companies making other products, for instance cars, clothes and so on are producing a tangible product. This means they can immediately see what has worked and what hasn't, and goods returned tell them exactly what needs correcting. They can also easily compare their goods with those of their competitors.

Software companies, on the other hand, produce an effectively intangible product, and their users generally do battle with the software alone and in private. If there is a problem and the manual doesn't

help, who do the users turn to? Sometimes it will be magazines like *Acorn User*, sometimes their 'local Acorn dealer' if they have one, or it may be a knowledgeable friend, but in many cases it will be the software company.

Now, no other type of company would *dream* of charging its customers for their opinions and the problems they found. On the contrary; letters saying 'thank you for your comments' and free vouchers are much more likely. Software companies, on the other hand, see nothing wrong with charging.

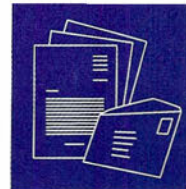
Okay, no-one yet has had to pay for the privilege of reporting a genuine bug, but 90 per cent of user problems arise from minor quirks of the program. It's extremely frustrating to be stopped dead by something you know to be trivial, but know that if you ask for support you face a charge of ten or twenty pounds. Users in this position will usually struggle through, getting more and more frustrated and wasting more and more time, until they eventually chance on the 'correct' way of doing things. As in: 'Oh, I needed a space and a

semi-colon – what a stupid way of doing it.' (a genuine *Dbase* quirk, incidentally.)

Meanwhile, a company that gives free support will have been telephoned by that user long before he reached the hair-tearing stage, and consequently the user will retain far more goodwill towards the company. And the company will get to hear about the quirks of its programs that keep tripping people up. Yes, free technical support does cost money, but dissatisfied, frustrated users can be even costlier. I hope I don't need to further labour the point.

**Simon Smith**  
Twickenham

**Most software companies in the Acorn market are more than happy to give free support to their customers, often for precisely the reason that you state, although it can sometimes call for deep reserves of patience when a user appears to be being particularly obtuse. Of course, even the free technical support given by some companies could be improved ... but that's another story. (DM)**



Write to Acorn User, IDG Media, Media House, Adlington Park, Macclesfield, SK10 4NP

## Windows when?

Did anyone read the review of Windows 95 in the *Telegraph* on 24 August, page 23? It said a very interesting thing about Acorn; something I did not expect to see: (I quote) '...most people can't explain what it (Windows 95) is or does, and those who can regard it as inferior to what has been available for years from rivals such as Apple and Acorn.'

It's good to know that Acorn still gets a look in when 80 per cent of the software market is held by Microsoft.

On the one o'clock news that day, the newsreader read a feature on Windows 95 and what is expected of it – Microsoft intends to bundle a free Internet access point with the later copies of the software, but there is much controversy as to whether they are doing the right thing or not.

I hope Acorn continues to give its best, especially with the launch of the new machines and the upgrade for Risc PC owners.

**Richard Sage  
Clwyd**

**I'm sure that Acorn will. I always do a double-take whenever I walk past a PC running Windows 95 these days – it really does look so like RISC OS in many ways. I felt that Douglas Adams summed the launch up best when asked what percentage of Windows 95 was hype and what percentage was technological innovation. '100 per cent hype: zero per cent innovation,' he replied. Of course, he's a Mac fan, but most Acorn enthusiasts would agree. (DM)**

## Bare bookshelves

I have recently considered replacing my A4000 with a new Risc PC. I am sure the quality of the new machine will be excellent. The biggest doubt I have about buying a machine is the complete absence of any books: reasonably priced or not.

I visited Waterstone's in Leeds where I found more

books about the 8-bit Amstrad PCW computer and CP/M than Acorn computers. Books make a computer visible in the market place.

They also build confidence in people. No matter that most of the books about Windows or PC applications are repetitive or badly-written. Books are a powerful marketing tool.

I would like to suggest that Acorn, as part of its marketing strategy, commission books about all the major applications used on Acorn computers; books aimed at teachers with lots of projects for students using Acorn computers; there also need to be books about programming Acorn computers. Apart from informing people these books will raise the profile of Acorn computers.

When these are written, every university and college library should be sent copies: free and gratis. At the very least, Acorn should make sure the Programmers Reference Manuals are present in all universities along with other technical documentation.

**Graham Telfer  
Bradford**

**That suggestion does have the familiar 'how to bankrupt Acorn in five minutes' ring about it, although I couldn't agree more about how Acorn's presence would be helped by a strong showing on bookshelves.**

The real question is 'who pays?' Acorn's in enough difficulty as it is, and schools hardly have the budget to buy all the computer equipment they need these days, let alone an individual guide to every piece of software they own.

**At least Beebug, with its PC Survival Guide and others to follow, is publishing Acorn-related books and in quite minority-interest areas. They may not be appearing on the bookshelves across the country, but they exist. (DM)**

## Viewpoint

This is where it's traditional for the editor to sound off about whatever seems to catch his or her attention that month. As the incoming editor, it might seem appropriate for me to let you know what changes I have in store for the magazine.

Well, this column – the viewpoint – is definitely on probation. I've never been a fan of rambling editorials which serve no other purpose than to make you hurry to read the bits that the editor *didn't* write. It's not as if I don't have enough other areas of the magazine in which to make my views and opinions known.

Mind you, if they're coming out too strongly in the other articles then I'm not doing my job properly. Keeping the magazine balanced is one of my main priorities, and that's not going to happen if I let the personal bees in my bonnet (and yes, I have a few) creep onto every second page. Perhaps the viewpoint column serves as a safety valve where the I can vent all the bottled-up bias that I've been keeping away from my other work.

I'd use the excuse that the viewpoint is there to provoke comment from the readers, but thankfully I don't need to. *Acorn User* readers are usually more than willing to write in without being provoked; take any of the last year's letters pages and you'll find as many letters leading the debate as there are replying to it.

Windows 95 seems to be a particular focus for debate at the moment. I'm sure that if you're used to Windows 3.1 then Windows 95 comes as a pleasant surprise – if it runs at all. There are certainly areas of the design of Windows 95 which RISC OS would do well to follow: long filenames, hot key window cycling and so on. But for anyone used to RISC OS, the sheer size of Windows 95 makes it very cumbersome to install and use.

In any case, Windows 95 will be obsolete in two years or so when the full-blown 32-bit Microsoft operating system appears on the scene. Anyone converting their software to take full advantage of Windows 95 might just as well wait for Windows 97 to arrive and standardise on that. In the meantime, Microsoft makes a heap of money selling an operating system with a two-year lifespan. And the operating system isn't even finished yet, with the promised Internet connectivity and outline fonts arriving in a 'supplement' at the end of this year. Good work, Bill Gates.

One thing Bill has done for the market is convinced people that if you hype a product enough, it will sell. They go on from this to suggest that if Acorn were to concentrate all its effort into marketing then Acorn would suddenly sell like hot cakes and all would be rosy in the Acorn world. This won't work – Acorn is no Microsoft, having neither the money, the resources nor the installed hardware base. Nonetheless, it produces leading-edge technology, and concentrating on this though its ART division can only be a good move for the market.

On the subject of PCs, I'm often asked whether *Acorn User* is about to start a column reviewing PC software. The answer to that is a very clear 'No'; such things are best left to the PC magazines, who can cover the software in much greater detail. The only PC-related articles in *Acorn User* will concern using a PC card or co-processor in an Acorn machine, and the problems encountered when doing so.

So, no PC page, but what of the rest of the magazine? There's nothing drastic planned, although a few new ideas will be introduced over the next few months. Our comparative review of Internet packages this month sets the trend – I always feel that it's so much more useful to have a large comparative review than a scattering of stand-alone ones. After all, that's the way you buy a product; you say 'I need a spreadsheet, I wonder which one's best?' not 'I want to buy *EasyCalc*, tell me about it.'

Oh, and I think we'll keep the name of The Moxon Interview the same. It's almost become a trademark.

**David Matthewman**

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# GAME SHOW

## Dune II on CD

I've been taking a look at the enhanced version of *Dune II* that Eclipse are hoping to release at the forthcoming Acorn World exhibition, and to be honest it's been a little difficult to prise myself away from it. Originally released on eight floppy discs, it was missing one or two things such as the music and the introductory animation. Still an absorbing game, it's kept me at my computer for hours and has even managed to tear Tom Cooper away from *Darkwood* – no mean feat in itself.

What's the CD-ROM version got to offer? The most noticeable addition is the music, something I missed on the earlier release. It's possible to output the tunes in MIDI, but I envisage most people will be using the standard Acorn sound output. If you haven't already purchased a pair of so-called 'active' speakers that amplify the sound from the computer's headphone socket, I'd heartily suggest you look around for a set. Due to the way the music is replayed, it can be a little on

the quiet side if you don't amplify it – besides, I wouldn't dream of forcing anything through the mono speakers gracing the current Acorn models. I think it's worth looking around for a magnetically shielded pair; anyone who's accidentally left a magnet near a monitor will know what I'm talking about – freaky colour schemes are the order of the day.

The pieces of music are automatically loaded while you're playing the game, and they're designed to augment the mood at the time. If you're busy wandering the sandy plains in search of spice, a gentle tune accompanies your movements. As soon as the local residents start making their presence felt, the tempo quickens and you're listening to the drumbeats of a military tattoo. The CD-ROM also contains the music tracks in their original form before they were converted to Acorn format. They're stored as individual samples, which means that about 80Mb of the disc contains raw sound data. The quality of the music is

incredible – slightly better than the in-game versions – and there's a Desktop program supplied so you can spool it off the CD and listen to it to your heart's content.

In terms of playing options, the available screen modes have been altered in order to cater for all tastes, including a new Risc PC CGA screen mode for maximum speed. There have been several tweaks to improve the presentation, but all in all there haven't been many obvious changes to the gameplay. If you've completed the floppy-based version, this one will hold no surprises for you.

To sum up, then – if you own the earlier version and you've mastered all that it can throw at you, there's not much to be gained by upgrading unless you particularly like the music or you need to liberate some space on your hard drive. If, however, you're still battling with the forces on Arrakis, the CD-ROM upgrade will add a new dimension to your adventures. Finally, if you haven't played *Dune II* yet, take a look as soon as you

can. Although its unprepossessing graphics didn't win me over initially, after ten minutes of gameplay I was hooked. There's an older demo version on the *Acorn User* CD-ROM in case you want to try it out, and you can contact Eclipse on (01243) 531194 or by e-mail at [eclipse@oasis.co.uk](mailto:eclipse@oasis.co.uk). They're also hoping to release *Global Effect* very soon, but I've not been able to catch sight of this one yet. When I do, you'll be the first to know.

Now, what I'd like to see in the future is a multi-player version of such a strategy game. Battling against the computer is all very well, but you can soon develop a set of strategies which will allow you to overcome any opposition in the end. Imagine *Dune II* in which you were playing against a colleague, or a version of *Sim City 2000* where you were competing for land space with another mayor. If anyone out there is designing something similar for the Acorn, please let me know and I'll feature it in a future column.

On a different note – I'm



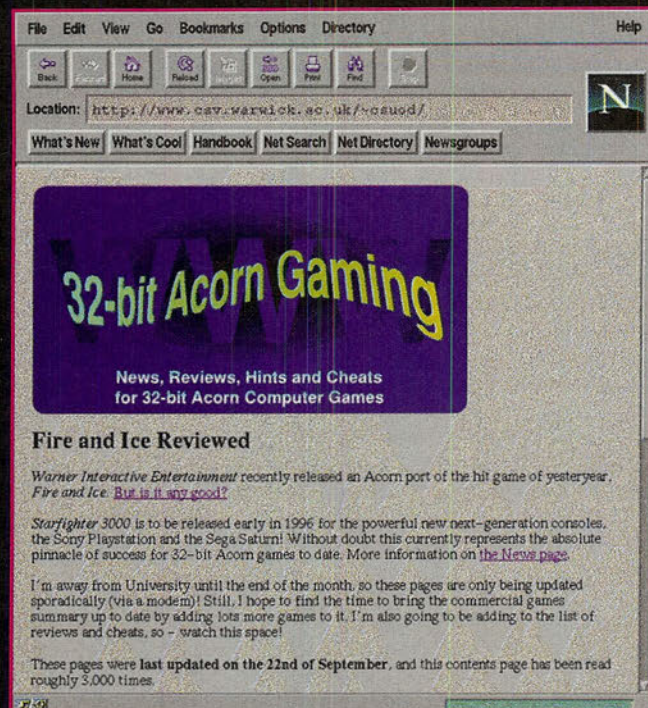
*Dune II* is now available on CD-ROM, and very nice it is too.

## The Databay

sorry, I couldn't resist it – I'd be interested to hear from people who have upgraded to 16-bit sound, either through purchasing the optional sound card or those lucky enough to possess a new Risc PC or A7000. How well do they work, are there any incompatibility problems, and can you tell the difference?

### Net one, pur1 one

By the time you read this, the *Acorn User* Internet Offer will be well underway, and I reckon it's time for the Game Show to branch out a little. There are plenty of ways to spend your time on the Net; some productive, others not so. I've already mentioned Gareth Moore's electronic repository of games information, and there are plenty of other resources knocking about which can provide you with anything from detailed tutorials on three-dimensional graphics to lists of the secret levels in *Doom*. The Net has its fair share of drawbacks – the Information Superhighway comes complete with roadworks – and if you're new to the game, it's easy to be demoralised by the number of errors you encounter. However, with time and patience, you can access all manner of informative material. In order to make things a little easier to find, I'd like to collect the addresses of any particularly interesting sites,



Next month – games pages on the Web.

so if there's one that you think other readers might benefit from, please drop me a line with the URL.

If you've already spent some time on the Net, the chances are that you'll have heard about the various Multi-User Dungeons and talkers that are liberally scattered among servers all over the world. They vary wildly in theme, from gritty fantasy to surreal humour, so there's something to suit everyone. The vast majority of these MUDs begin their lives as a chunk of generic code that

someone's downloaded, with new locations and code tacked on here and there – don't be surprised when a lot of them have the same sort of feel.

However, there's the odd original floating around, and I've spent quite a bit of time on one based in Oxford. Going by the seemingly innocuous name of *Island*, it's home to a diverse collection of characters from all over the world who log on to tackle mind-bending quests, battle horrific monsters from King Kong to Bill Gates, and

perhaps most importantly, have a good chat. The overriding theme of the game is humour, and you'll find a collection of styles spread over its numerous locations. If you fancy taking a look at what the management like to call 'the world's most literate MUD', telnet teaching4.physics.ox.ac.uk 2092 and tell them that LINK sent you. One word of caution – these MUDs can soak up a disproportionate amount of time, so if you're dialling via a modem, make sure you keep an eye on the clock.

What do you think about the Internet? It's something of a contentious issue – theoretically, the Net opens up worldwide communications to anyone with a modem, but in practice it's going to get increasingly congested as time goes on. Is it going to hold the future of interactive gaming, or will we be staring at 'Connection failed' messages in years to come? Will you pay the connection charges and access costs to play on-line games, or will you stick with the more conventional games of the present? Let me know what you think.

### And finally

Next month, I hope to bring you progress on what looks to be the first realistic pinball simulator for the Acorn – written by Mattijs van Delden and the Quantum team, and introduced on Gareth Moore's World Wide Web gaming page. It's only the first in a series of games that Quantum hopes to release, and I'll be interested to see whether their products show the sort of polish they made such a point of in their recent demo.

As always, I'd be interested to hear from programmers and players alike, so if you'd like to drop me a line, you can write to me at *Game Show, Acorn User, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP* or by e-mail at [HAL@acornusr.demon.co.uk](mailto:HAL@acornusr.demon.co.uk). I look forward to hearing from you.

Steve Mumford

### Free Darkwood demo

Tom Cooper's much-awaited masterpiece *Darkwood* will be making its debut at the Acorn World show in October, costing £24.99 from Eclipse.

Regular readers of this column will know that the plot concerns a wizard who has to solve a number of fiendish puzzles as he wanders through the land, meeting other characters on the way. Imbued throughout with Tom's quirky humour and general hatred of small cute animals, *Darkwood* promises to be one of the hits of 1995, and to go down in the hall of fame of Acorn-originated games.

*Acorn User* readers can get a free demo copy of the game by phoning Eclipse on (01243) 531194. As visitors to our web site will know, Tom has had a page previewing *Darkwood* for some time; the page should now contain a link to a downloadable copy of the demo.

Happy wizarding...



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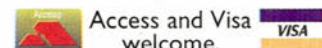


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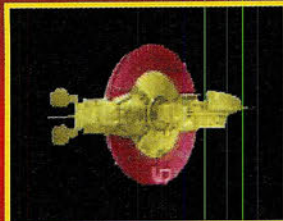
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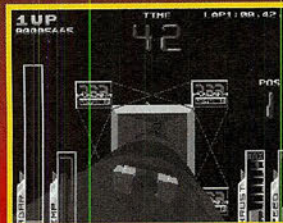
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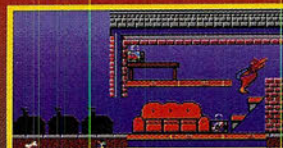
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# HIGH RISC RACING

GAMES

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 Price: £25

Modus Software is an unusual company in that even before it had released its first game, it was a finalist in the 1995 *LiveWire* awards, based on the team's business acumen, technical expertise and original ideas. The company's aim was to improve the quality of games on the Archimedes, and *High Risc Racing* is the first product to emerge.

First impressions count for a lot, and *HRR* scores highly here. The presentation is slick, with the opening screens zooming in and out in a flurry of bitmap graphics. This is carried over to the main menu screen which presents you with a choice of six options; click on any one and the button expands to fill the screen, dissolving into whatever option you have chosen. All the while a moody soundtrack is being played, courtesy of the ubiquitous *QTM* tracker player.

This sort of attention to the presentation of a game is all too rare on the Acorn platform – though it is standard elsewhere. Having said this, too many well-presented games turn out to be 'all style and no substance'; is *HRR* one of these?

No, not really. As you can see from the screenshot, the graphics for the game are at first sight a little disappointing, being basic overhead representations of the track and competing cars. However, the scenery scrolls past at an impressive rate, and you soon forget the blocky representation of the cars because all your wits are occupied keeping the thing on the road.

*HRR* has a structure similar to *Elite*, in that you start off in an underpowered shoebox with no weapons and gradually, as you get more skilful and start winning races, you build up enough money to improve your car's specifications. In fact, you can even trade it in for a sleeker model, right up to the top-of-the-range hornet.

One feature of *HRR* which you don't exactly get at *le Mans* is the ability to blow your opposition off the track with missiles. This is a bit of a novelty for racing games – you could knock over the odd policeman in *E-type* but *Revs* was never like this – and it certainly adds to the excitement.

The gameplay is very tricky to get the hang of at first. The car seems very hard to control, and you end up making multiple contact with the walls and with other cars as they lap you again and again. You start at the back of the pack too, so even if you keep pace with the other cars you do still have to fight your way past them. Anything worse than third leaves you unranked with no prize money and no



way of progressing through the levels.

If you're the sort to give up easily then don't buy this game. If you like a challenge; this could just be the game for you. Once you have got the hang of steering the car, and you will with a little practice, you have a long, gruelling task ahead of you.

The levels are varied and offer some inventive track layouts, although none are maintained to Formula One standards as they all have pot-holes and the occasional oil slick. You don't actually need to keep your car on the road all the time, but if you do nip across a bit of waste ground for a short cut, you'll pay the price in expensive repairs.

Repairs are very important. Each race will have taken its toll on your car, and if you're the type of driver who likes to screech round corners in a 'controlled' skid, you'll need to spend a lot repairing your tyres afterwards.

This aspect of the game calls for a lot of skill and tactics. You want extra power, but it'll cost you in tyre wear and fuel and you'll need the skill to control the car, or the effort will be wasted. You're on a budget, but the faster and more powerful your car, the more chance you have of winning the big bucks in races. It's this combination of tactical planning and arcade-style racing action that should make *High Risc Racing* a winner.

If they continue to write games like this, the Modus Software team should go a long way.

Dave Ward

You're in eighth position and battling hard to get to third, but there are five computer-controlled cars and a dangerous corner ahead of you. Time for a turbo boost? Burn that rubber – this track isn't called 'tyres nightmare' for nothing.

## GAME OVER



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*'The story so far...*

*'After being kicked off Earth, Spobbleoid was sucked into a passing dimensional rift. This was a tad unfortunate, but such is life...'*

The latest release from The Fourth Dimension is the sequel to a game published last year by Cybernation; *Spobbleoid*. It's written by the same team, and those of you who bought the original really only need to know that this has another 36 levels, improved sound and in-game music and a game designer.

Those of you who missed the original will need a bit more explanation. *Spobbleoid* is a cross between *Pac Man* and *Repton*, but more psychedelic. Spobbleoid herself is a small mechanical orange who scampers about the screen collecting fruit and power crystals and avoiding monsters.

Just to complicate matters, the screen is littered with blocks which must be slid out of the way to get at some of the goodies. It's not that simple though (is it ever?) because if you push the wrong block at the wrong time you'll end up being unable to get at all the goodies and won't finish the level.

Furthermore, some of the blocks have time

delays which locks them in place if you are too slow. Others won't move until you have found the correct key to unlock them, or only slide off in one direction.

This, then, is a game of cunning. There are no spaceships to shoot, no Nazis to gun down, and even when you do squash the monsters, they vanish in a gore-free puff of pixels. There are plenty of puzzles to solve, and I can't tell you how refreshing it is to find a game that hasn't forgotten that games should, at heart, be both brain-taxing and fun.

The game is divided into 12 areas, each with six levels to solve. The first six areas are from the original game; the second six are new. Between each level is a special bonus screen, where you have to solve one of a variety of puzzles against the clock for extra points.

The puzzles start out easy enough, breaking you in gently. They get harder very soon after that, and if there's one criticism I would level at the game, it's that one or two of the early time-lock levels don't leave you nearly enough time to complete them unless you are already an expert.

Owners of the original *Spobbleoid* may be wondering if it is worth buying the new game if they already have half the levels. I would say that it certainly was; not only has the game itself been improved but *Spobbleoid Fantasy* includes a game designer with which you can create your own levels or add extra challenges to existing levels.

To use the designer, you first make a copy of the second *Spobbleoid* disc and then edit the copy. You can design completely new levels from scratch or alter the data on existing ones. What's more, the high score table and passwords are saved with the level data, so you can pass the discs round to your friends who also have *Spobbleoid Fantasy* and have league tables for each set of levels you design.

If you need any more convincing that *Spobbleoid Fantasy* is a genuine arcade puzzle game like which they don't make 'em any more, try out the demo on this month's cover disc. You won't be disappointed.

**Dave Ward**

### Cover disc demo

Play the exclusive *Spobbleoid Fantasy* demo on the Acorn User cover disc this month.

Spobbleoid must move all the relevant blocks with clocks in before they time out and become fixed in place. She must also avoid the evil-looking orange pepperpot in the bottom right of the screen, unlock blocks using the key and collect all the purple crystals - all before the time bar at the bottom of the screen reaches zero.





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Longman Logotron has just released a new 24-bit painting package called *The Big Picture*, a demo of which is on one of our cover discs this month. Normally, *The Big Picture* costs £69 + VAT, but *Acorn User* has five copies to give away to the first five correct entries to our competition drawn out of the hat.

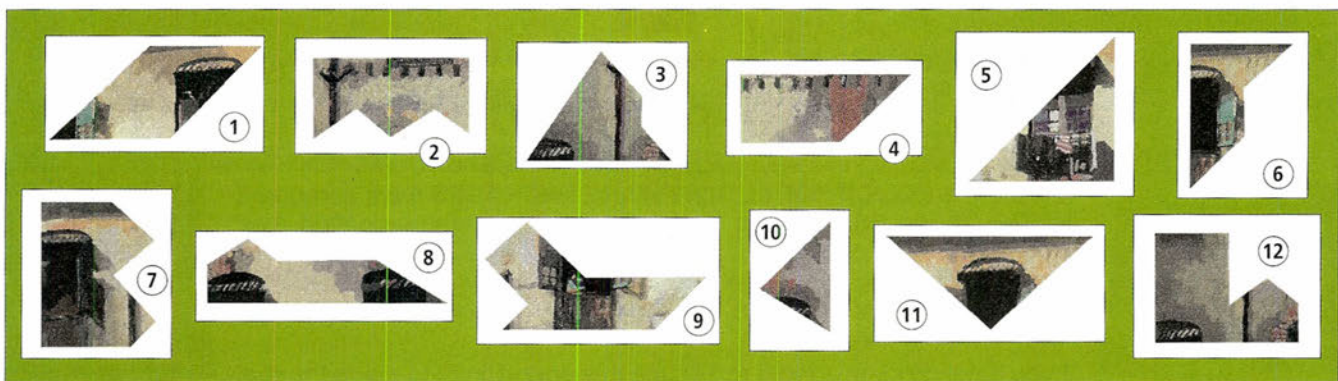
Ten of the pieces on this page fit together to make up a complete picture – the painting on the cover disc, which was created using *The Big Picture*. Two of them are extra. All you have to do is identify the extra pieces and send us a postcard saying which ones they are; remember to give your name and address on the postcard. All entries must be received at the *Acorn User* offices by the end of December, when we will draw the five lucky winners from out of a hat.

Send your entries to: *Acorn User* Picture Puzzler, IDG Media, Media House, Adlington Park, Macclesfield SK10 4NP. The editor's decision is final, and no correspondence will be entered into.

# Picture puzzler

Win a copy of *The Big Picture* from Longman Logotron in our competition.

FEATURE



## The fastest IDE solutions...

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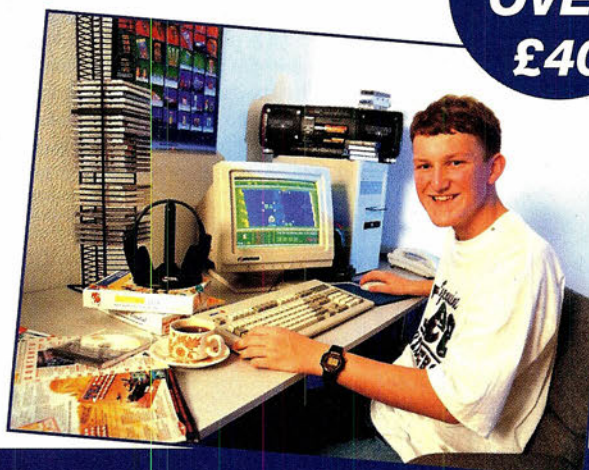
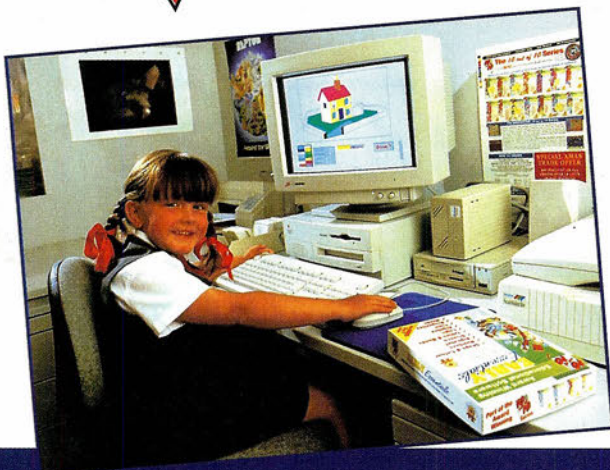
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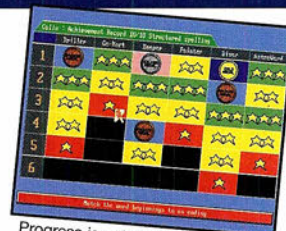
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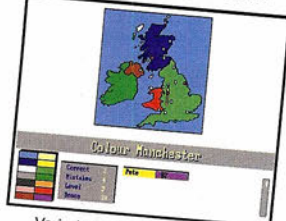
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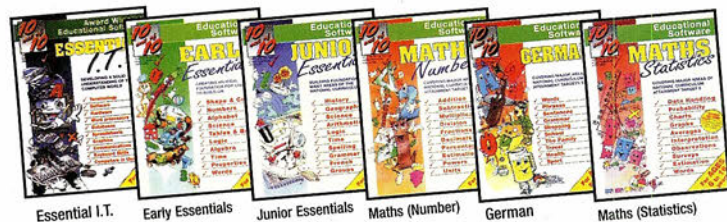


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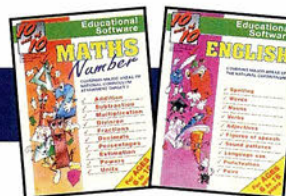
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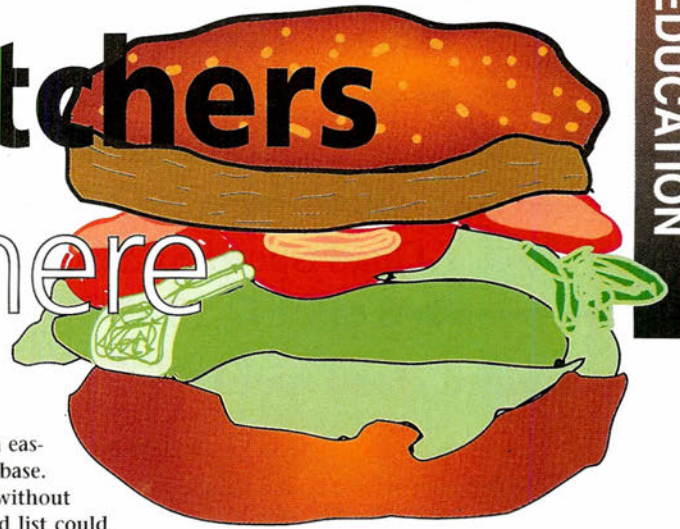
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# Weight watchers

Geoff Preston weighs up the options for computerised diet managing.

start here



It seems that hardly a week goes by without someone, somewhere telling us our diet is unhealthy. Keeping note of daily intake with the aid of a book of nutritional data and a calculator can be tiresome to say the very least. A computer with the right software can make the task a great deal more pleasurable. But what are the options?

## Diet Manager

One of the programs I use in the lower school, and available on the network for general use, is *Diet Manager* from Mewsoft. This is a dedicated database containing nutritional information on over 300 foods and ingredients. I use this program with Year 9 Home Economics students who can quickly plan a meal by selecting various foods from a window called the Larder.

All foods are divided into categories meats, dairy produce, vegetables etc. The category icon is dragged into the Food Selection window and the actual food is then chosen from the list displayed.

Included in the food data is the value of a typical serving, which can be adjusted. Unfortunately, the units vary between different foods, so it's not always easy to compare servings.

A graph can display the nutrients for either a single food or for a selection of foods against the recommended daily intake. The nutrients included are calories, protein, carbohydrate, fat and fibre, but there is no provision for vitamins or minerals.

*Diet Manager* will save meals in either native format or as a CSV file which could then be loaded into a spreadsheet or

graphing program. Items can easily be added to the food database.

This is a mixed blessing as – without careful supervision – the food list could soon contain large quantities of inaccurate and misleading data making it about as useful as a spelling checker filled with misspelt words.

The solution here is to place the program on a read-only area of the network. If any foods need to be added, the teacher responsible for the network should do it, after verifying the accuracy of the data, of course.

An enhanced version (*Diet Manager II*), which among other improvements generates graphs, is available at the higher price of £55.

## Diet Guide

From Hampshire Microtechnology Centre comes *Diet Guide* with which I am not so familiar, but initial impressions are very favourable.

The manual begins by claiming the program is aimed at Key Stage 2 and below. Certainly, the presentation is aimed at a younger audience than that of *Diet Manager*, but I can't think of a good reason why it should not be used right up to Key Stage 4, and even beyond. Certainly, the material content is more than adequate and it has some very interesting additional features which many adolescents would be wise to use.

The user selects foods by clicking on the text icon on the button bar which opens a menu showing all the categories of foods held in the database. The food is chosen from a sub-menu containing all the foods in that category. Once the food is chosen, the user is asked to choose the quantity.

This, I feel, is the weakest area of the program because in most cases the choice of serving is small, medium or large, rather than accurate weights.

Clicking on the 'Professor' icon gives

some textual comments on the food selection and a graph of the breakdown of the food. An analysis of each item can be also be displayed.

*Diet Guide* contains a much greater database of foods than *Diet Manager*, each one containing more data about each food, but there is no way of adding to the existing food list.

## Diet

Don't dismiss magazine discs as containing only trivial programs. The magazine disc associated with volume 8, issue 3 of *Risc User* – published by Beebug ((01727) 840303) – carried a program called *Diet*. While not as user friendly as either *Diet Manager* or *Diet Guide*, it is nevertheless a sound program with many useful features, which for £4.75 is worth AU buying.

## Product details

Product: Diet Manager  
Supplier: Mewsoft  
Tel: 0171-267 2642  
Price: £35 + VAT

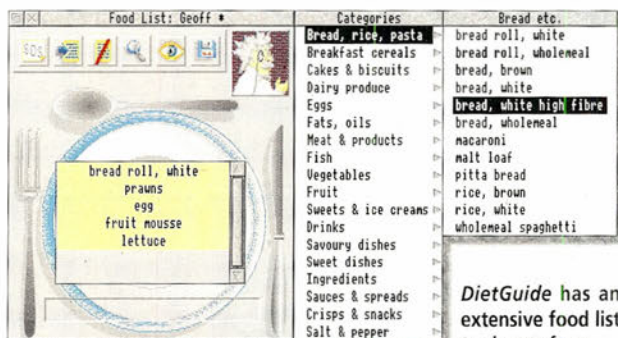
Pros: Easy selection • Configurable for age group

Cons: Limited food list • No vitamins or minerals

Product: Diet Guide  
Supplier: Hampshire Microtechnology Centre  
Tel: (01705) 378266  
Price: £45.95 + VAT (Secondary site licence £90)

Pros: Easy to learn • Suitable for wide age range

Cons: No CSV output • Food quantities a little vague



*DietGuide* has an extensive food list to choose from.

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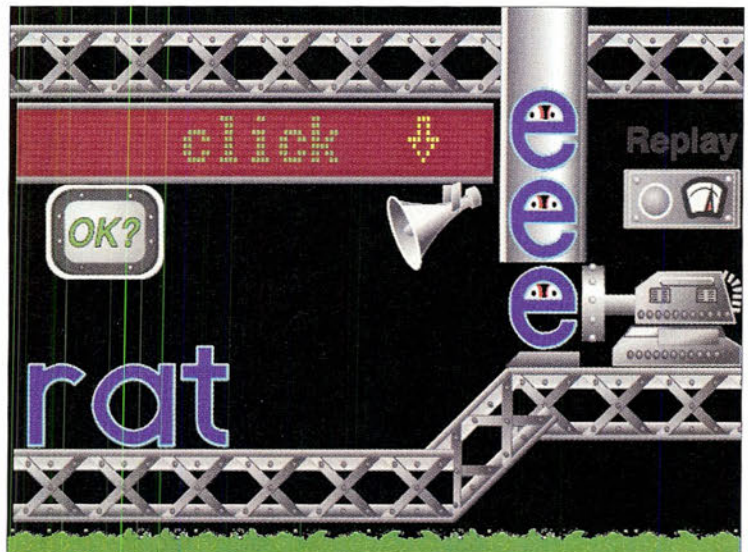
email: cjemicro@pavilion.co.uk (n.b. we log on about twice a week)

# Under the spell

Often, in the classroom, we are faced with the problem of meeting the needs of children who have specific learning difficulties. There are many different strategies that can be employed very successfully. Information Technology can help meet the needs of these pupils in a variety of ways. One software house, Xavier Educational Software, has produced a selection of software specifically aimed at these children, especially those with dyslexia.

Xavier is based at the University of Bangor, Department of Psychology. Within the department is a dyslexia unit, where research has been undertaken for 30 years, gaining international recognition. It was here that a small-steps, phonic-based teaching system for the dyslexic pupil was developed, and about seven years ago it was decided that a series of computer programs could enhance the work of the unit and provide stimulation for the pupil.

The software was originally written for the BBC range of computers but was extended with the introduction of the Archimedes and sampled speech. This produced some excellent software, some of which was short-listed for a Joseph Rowntree Foundation award last year. Having found that many dyslexic children benefit from frequent, short-term repetition of exercises, the programs tend to be of the 'structured learning' variety. I think there is a need for all types of supportive program and therefore suggest that these



The magic-e machine at work.

Colin Rouse looks at a selection of software from Xavier to help dyslexic pupils.

software packages will have a real impact in the education of dyslexic pupils.

## Software selection

Although Xavier produces a variety of software, I have chosen three programs I feel can support the needs of dyslexic pupils and those with specific learning difficulties in the primary classroom.

All the programs reviewed here are supported by research findings that show the relevance of this approach for pupils who struggle with literacy learning.

The programs generally correspond to the early levels of the revised National Curriculum for English and complement in particular those elements that deal with the acquisition of essential low-level literacy skills.

## Magic-e

This program is designed to help pupils recognise whether the vowel sound is long or short. A second major function of the silent *e* – to soften the sounds of *c* and *g* – is also introduced.

The teacher disc has a limited vocabulary to demonstrate the various spelling rules associated with the 'magic e', while the practice disc is used to test the pupils' knowledge over a larger selection of words. This is then extended using the chooser

disc whereby the teacher – with access to a sound recorder – can choose the words the pupil uses.

There are two main activities: Firstly, the magic-e machine which pumps the 'e' to the end of the word and then says the word. Both sound and animation can be replayed, if necessary, to reinforce the concept.

Secondly, there is the practice section. This features a wizard who is moved around the screen collecting the letters of a pre-defined word in the correct order.

The screen is in the form of a maze with a selection of closed doors. To unlock these doors the pupil has to listen to the spoken word and guide the wizard to the first part of the word. When the doors have all been unlocked and the word collected, the next screen is displayed.

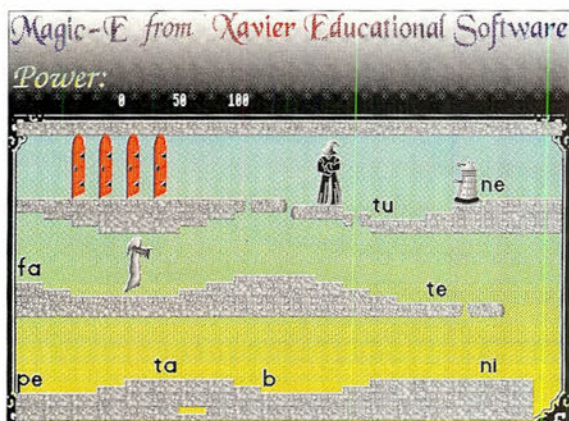
Teachers can choose from a selection of words or add their own; if they wish to create their own word lists, and have access to a sound recorder.

## Sentence Pumper 2

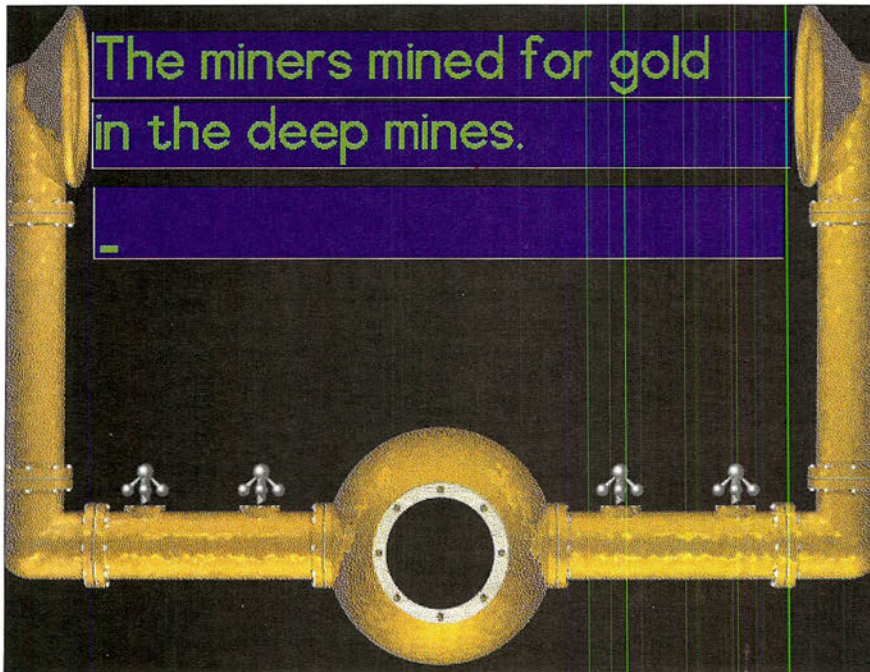
It is generally recognised that the first step in learning spellings is to study and remember separate words, in groups or by spelling patterns. It is useful for this to be followed by dictation of the same words in carefully composed sentences. This gives pupils the opportunity to practise the learned vocabulary in a structured context along with revision of the work.

Sentence Pumper 2 encourages careful listening and accurate memorisation and repetition of sentences which may be gradually extended in length, and it can also be used for structured reading.

The screen takes the form of a machine with a line of text at the top. The pupil then reads the text and copies it, using the keyboard, onto the line underneath. As each word is correctly entered, it is spoken



Can you help the wizard?



The sentence pumper in action.

clearly and the pupil moves on to the next one.

When the sentence is completed, a new one is 'pumped' into place. New sentences can be added to the extensive list either by creating an Edit file which will then use synthesised speech or by using a sound sampler to create your own sounds.

### Soapbox

This final choice aims to help learning by emphasising the relationship between the spelling pattern and the vowel sound. Each word is pronounced, the consonant pattern is highlighted, and contrasts made between words with long and short vowel sounds.

The program has two modes. In tutor mode, the pupil is helped to learn the spelling by studying the sequence of letters visually, then listening to the word and the sequence of letter names. In test mode

the program dictates words for the pupil to type in. There is an optional game at the end.

The first stage screen has a word at its centre and is surrounded by four outline shapes, only one of which fits the word. If the correct outline is placed over the word, the computer will pronounce the word and can also spell it.

The second stage involves the pupil spelling back a word the computer has chosen. The pupil may hear the word as often as needed by using the megaphone option.

Once these two stages have been completed there is an optional map game which can be used to test a pupil's understanding in a fun way.

There is also the very useful option to print a list of words set and the attempts made by the pupil together with the time taken to do them.

### In the classroom

Current research suggests that dyslexic children find it difficult to transfer information between the short and long-term memory, and it has been found that frequent short period repetition of exercises is a very successful approach.

Bearing this in mind, I decided to make computer time available on a daily basis for such pupils. My aim was to give them short bursts to help try to make the transition from short to long-term memory retention. This did take the computer away from other pupils, but the time needed to complete the small tasks was minimal so that it was not actually an issue.

I targetted not only my dyslexic child but also others who – for one reason or another – were failing to acquire the necessary skills for successful spelling.

All the children found the various exercises stimulating and looked forward to them. They were quickly able to load and run the exercises independently but I was able to monitor their work through the program's record-keeping facilities.

They were able to succeed using the computer, which in turn provided motivation for the next attempt. There was a definite improvement in spelling skills using this 'little and often' approach.

### In conclusion

Almost all those with literacy problems need large amounts of structured learning. The computer is able to provide this better than any other method. Through the use of appropriate software, dyslexics begin to understand the sound symbol correspondence and letter strings.

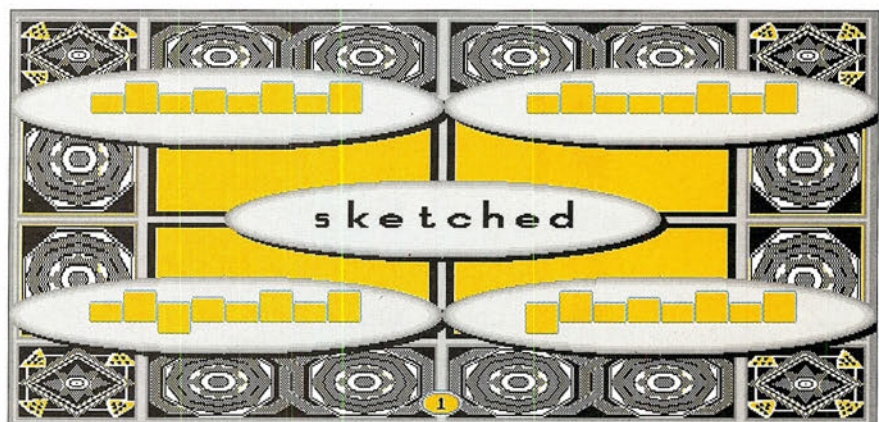
The software covered here, as well as other Xavier programs allow pupils the opportunity to do just that. Based on well-researched and proven techniques and approved by the British Dyslexia Association, these programs are a must for any school or parent faced with these problems. **AU**

## Product details

Supplier: Xavier Educational Software  
 Tel: (01248) 382616  
 Fax: (01248) 382599  
 E-mail: pss005@css1.bangor.ac.uk  
 Price: Magic-e £32.50, Sentence Pumper 2 £32.50, Soapbox £37.50

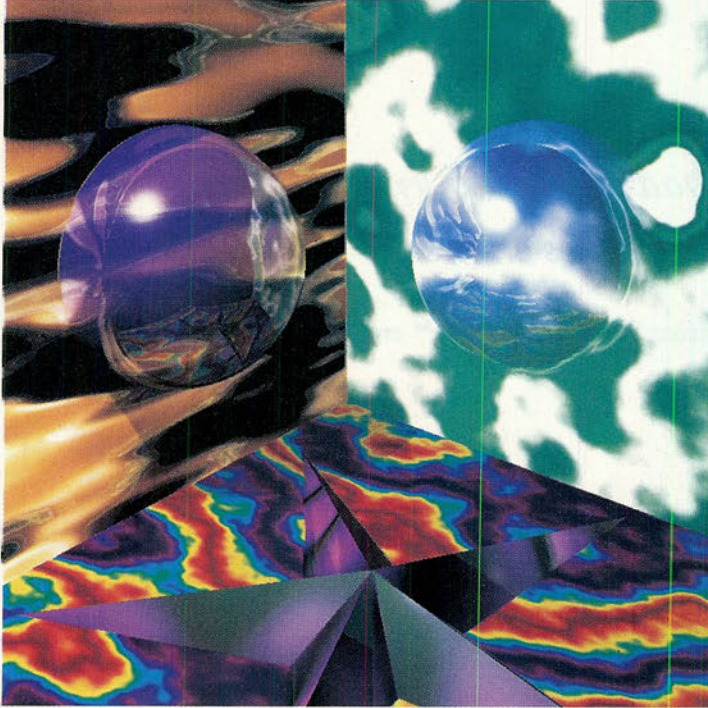
Pros: The software does what it claims •  
 Interesting and easy to use •  
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Cons: A sound recorder is needed if you want to add your own words and sounds.



On the soapbox spell trail.

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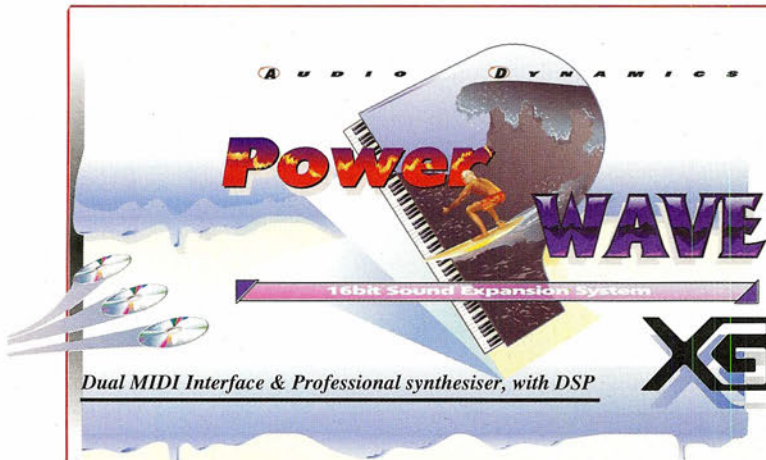
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# C for yourself

Steve Mumford investigates performing SWI calls from within C.

**W**elcome to the start of a new phase in *Acorn User's* monthly C tutorial – now we've covered the basics of programming an application in C, it's time to add the various mechanisms needed to allow the code to multi-task in Acorn's desktop. However, it's not a particularly simple task and last month, I briefly mentioned the various libraries supplied with the compilers on the market. These aim to make the programmer's life a little easier by supplying ready-made C functions to automate the processes necessary to maintain a WIMP application.

Due to the problems associated with picking out a single library for the tutorial and disappointing those who don't have it, I've decided to take a lower level approach and attempt to build up our own library, using Acorn's SWI calls to control the WIMP directly. In this way, I hope to be able to introduce you to the methods of building your own libraries, as well as programming the WIMP. Since SWI calls are available in other languages available for the Acorn, the topics I'll cover in the forthcoming months should be applicable to a wide range of readers. From time to time, I'll compare the techniques I'm using with the libraries available so you'll be able to see the differences between them.

This month, I intend to cover the basics of calling an SWI from within a C program, giving you access to a wide range of utilities. Although we're not going to be building up a WIMP application just yet, we need to cover the SWI mechanisms now so that we can use the relevant WIMP calls in the future.

However, once you've mastered the techniques given below, you'll be able to inject your single-tasking applications with a bit more power. Of course, as soon as you start using SWI calls, your program is no longer portable – but that's a small price to pay.

In order to access these functions, we'll have to #include two new header files which we haven't made use of before. These are `kernel.h` and `swis.h`, and versions of these are supplied with both Beebug's *Easy C* and Acorn's C package.

The first of these provides the definitions of the functions we'll be using to call the SWIs, along with some important structure definitions which are used to hold the register information passed to and from the SWI.

The second file contains a long list of #define commands, allowing the programmer to use the textual variants of the SWI names and avoiding the need to remember eminently forgettable hexadecimal numbers.

I've included a basic demonstration of an SWI call on the cover disc, compiled by both Acorn

and Beebug compilers – it simply performs an `OS_Mouse` system call and prints up the coordinates it returns whenever a mouse button is pressed. Before calling an SWI, there are a few data structures that you need to set up. Firstly, since you know how little error-trapping C does by itself, it's important to have a device to catch calls that produce errant results. To this end, a structure has been defined in `kernel.h` capable of holding an error number and message:

```
typedef struct {
    int errnum;
    char errmsg[252];
} _kernel_oserror;
```

Once you've included `kernel.h`, you don't need to re-define this structure, and all you're required to do is declare a structure of your own with the line similar to the one shown below:

```
_kernel_oserror error;
```

The function itself takes three parameters – an integer giving the SWI number, and two structures each containing an array of ten integers. These hold the register values passed to and from the SWI command, and are set up prior to the call.

```
_kernel_swi_regs in;
_kernel_swi_regs out;
```

I've not needed to initialise `in.r[]` because `OS_Mouse` doesn't take any register input – it just passes values back in registers 0 to 4. We call the SWI as follows, typing in the full name instead of the number since this will be replaced by the appropriate `swis.h` definition on compilation.

```
error = *_kernel_swi(OS_Mouse, &in, &out);
```

On this occasion, I haven't implemented any error checking, but I've shown you the general form because it'll crop up a number of times in the future. The parameters are retrieved by standard structure manipulation, and they're printed using `printf()`. That's all there is to it – well, **AU** for now at least. See you next time.

## Hints and tips

ST506 drives, 3D menus, unplugged modules, upgrading A3000s and the serial ports on older machines.

# Questions & Answers

**Q** I have an aged and second-hand but dependable A410/1 with a 4Mb memory, ARM3 and a 40Mb hard disc. As you would imagine, the hard disc is running out of space and I would like to upgrade to something much larger. It seems from the configuration file that I have an ST506 drive (in fact the drive itself is labelled 'Toshiba MK 134FA'). The user guide is not detailed enough to help me, so I wonder can you answer the following:

1. What is an ST506 as it seems it is neither an IDE nor a SCSI?
2. Is it upgradeable or would I have to discard it and replace it with an IDE/SCSI?
3. Could I run two together? The ST506 seems to have no interface card; could I still fit an extra IDE internally and where does the interface plug

in? I have used only one of the backplane slots for a Scanlight 256.

Philip Hughes  
Essex

**A** An ST506 is a standard of interface now made obsolete by IDE and SCSI, as it is slower and large hard drives are not available for it. It is possible to upgrade it, but not advisable – the best route would be to buy an IDE or SCSI interface and fit a hard drive to that.

The good news is that you will not need to scrap your old hard disc, which will quite happily co-exist with any new SCSI or IDE drive

that you decide to fit – I have had all three working together in one machine myself. Either interface will plug into the backplane. If you are determined to go for an internal drive, a number of companies do a compact 'IDE drive in a card' solution, with a 2.5in IDE drive actually mounted on the podule itself.

If you want to fit a SCSI drive internally (or a larger IDE drive) then you will have to remove your existing hard drive. However, provided that you can manage to power both drives at the same time, you should be able to have them both

running with the case of the machine open while you transfer data from your old machine to your new one.

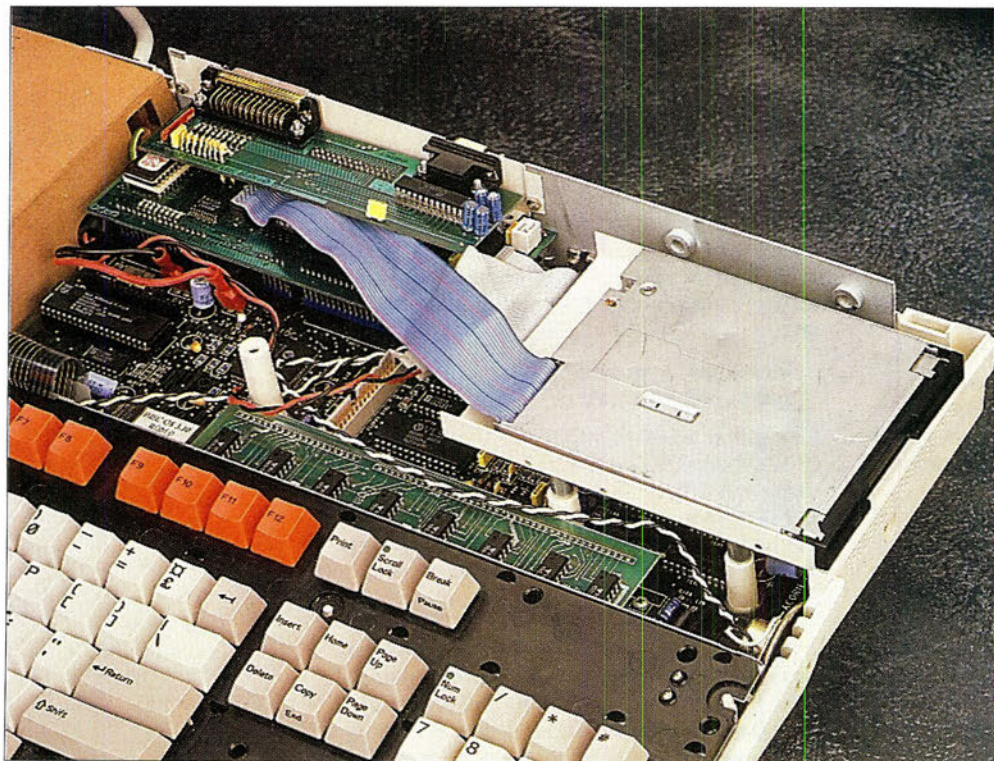
**Q** I was over the moon when I saw the *Director* program on your cover disc, as the screenshots accompanying Nick Craig-Wood's article all included menus with a three-dimensional effect. Upon using the program, I discovered that this didn't seem to be one of its features, much to my disappointment. Can you tell me what software allows you to have these menus, or if it is some part of *Director* that I've missed?

Martin Hendry  
Poole

**A** You're quite right – *Director* doesn't do this. The only patch I am aware of that has this effect is a Risc PC-only one called *WimpPatch* by Ting Zuei Kuei, which also gives raised borders on dialogue boxes. This should not be confused with an earlier *WimpPatch* for pre-Risc PC machines which gave them outline fonts and textured backgrounds (but not 3D-style menus).

Both patches are available on Arcade and probably most PD libraries as well. Ting Zuei Kuei's patch is also on one of our PD subscription discs in our latest subs offer.

**Q** I have been having a problem with my A3000: recently strange error codes have appeared when I try to run *Armadaeus* or *Phases 2*. The codes are:



Greyhound's upgrade kit for the A3000 gave you a high density floppy drive – is anyone still selling the upgrade now that Greyhound is no longer with us?



SWI name not known  
and:

SWI &406C0 not known

I was surprised by this because I thought that SWIs had something to do with sound which *Phases* doesn't have.

More importantly *Sound Lab II* gives an error code of:

SWI &406C3 not known

whenever an attempt is made to record anything via the microphone connected to the computer, but it will allow previously recorded samples to be played. Do you think that my problem is in the hardware or the software?

Morgan Brickley  
Portmarnock

**A** SWI call is used by a program to interface with *any* area of the operating system – sound, graphics, the Desktop, files and so on – it's not sound-specific. The particular calls that you mention are concerned with the hourglass (the pointer shape which appears when the computer is busy).

This is very odd, as these calls should always be available. What I suspect has happened is that the Hourglass module has become unplugged, making it invisible to the system. This would cause seemingly random errors as every time the software tried to create an hourglass it would throw up an error, though this won't always cause a crash.

The situation is thankfully reversible: try this:

- Leave the Desktop by pressing F12 (function key 12)
- Type

\*UNPLUG

This will probably tell you that the Hourglass module is unplugged.

- Type

\*RMInsert Hourglass

This will re-plug the module.

- Type

\*RMReinit Hourglass

to re-initialise the module, making it available to

the system.

- Press Return to get back to the Desktop.

If there are any more modules unplugged, you can re-plug them in in a similar way. Sometimes games unplug modules to get extra memory, and don't always give them back when you quit.

'SWI not found' errors are also caused when you try to run a RISC OS 3 program on RISC OS 2, but in this case the program usually warns you that it won't run on the older operating system first.

**Q** I currently own an A3000 with 2Mb RAM and RISC OS 2. I have a printer occupying the parallel port but no hard disc; I was wondering what the best options are to get one. The serial port is 'not fitted'.

Can I get a hard drive fitted to my expansion port? Would it be better to go internal? I am after a drive of around 200Mb here. What prices can I expect?

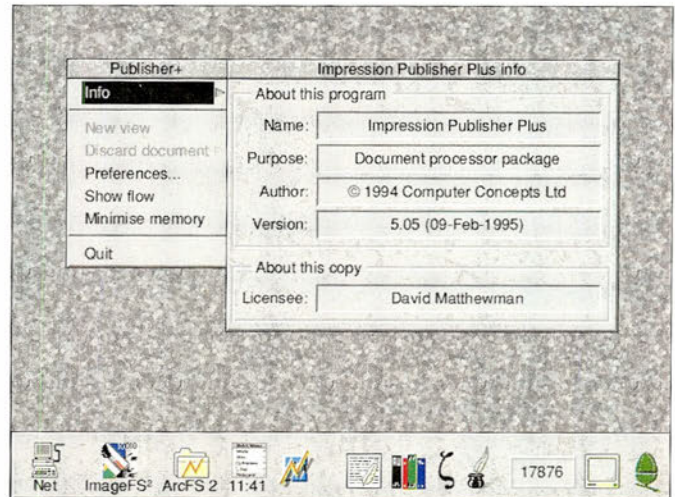
Also, can I fit RISC OS 3.11 after I have fitted the hard disc, or would it be better to have it fitted first. Does RISC OS 3.11 allow you to use high density discs?

Gavin Innes  
Peterhead

**A** To take your points in turn:

You could get a hard drive fitted to either the internal or the external expansion slot. For instance, Ian Copestake does an internal 240Mb IDE drive for £299. Other people to consult about this would be HCCS and Cumana, both of whom do a kit that allows your machine to be expanded further. VTi, Cumana, AlSystems and Morley will also do a SCSI interface either for the external slot or for the internal expansion slot. A SCSI interface would allow you to connect larger hard drives to your system, but is more expensive to start with. If you're sure that 240Mb will be enough, then the IDE route is the best.

RISC OS 3.1 is an upgrade which is basically independent of the hard disc upgrade. I don't believe any



3D menus and raised dialogue boxes are supplied by Ting Zwei Kuei's *WimpPatch* on the Risc PC. The nice 3D effect on the icon bar gets a bit confused when it scrolls, though.

of the hard drive upgrades have problems with RISC OS 2, but you should ask the companies concerned. A RISC OS 3.1 upgrade is well worth getting, in any case, as a lot of software is starting to expect it.

RISC OS 3.1 will support high-density discs; unfortunately, your floppy disc drive won't. There used to be a hardware upgrade for this, but the company that sold it (Greyhound Marketing) has ceased trading, and I don't know of anyone else selling the upgrade. Beebug's high-density drive podule may be suitable for the A3000, but it may not give you a replacement internal drive.

**Q** I was interested to see in the October issue (page 38) that it is not possible to run a modem faster than 9600 bps on pre-A5000 machines.

I use a 4Mb ARM3 A3000 with RISC OS 3.10, with the upgraded serial modules installed. Using a US Robotics Sportster 14400 Fax/Modem, I reliably connect at 14400 to my local Demon vPoP and other BBSS including Arcade.

Perhaps it might be worth mentioning this in a future issue, as I'm sure that more than a few people are probably being deterred from going online because of the claimed 9600 max.

J William Kay  
via the Internet

**A** What the older machines are capable of in terms of serial port speed is a matter for some debate. Certainly, many seem to be able to run faster than the 'official' maximum of 19,200bps if you install Hugo Fiennes's serial block drivers (which come with most of the Internet packs and present a consistent and reliable serial interface to applications). 38,400bps is common, and some people claim to be running pre-A5000 serial ports at the 57,600bps required to get the best performance out of a 14,400bps modem. The modem to computer speed should theoretically be four times the modem to phone line speed, because the modem compresses data by up to four times as it sends it down the phone line. I've yet to see this theoretical maximum achieved in practice, though.

It's that old chestnut 'Your Mileage May Vary'. If you have a chance to test the connection between your computer and a modem – for instance with the *SerTest* program on the cover disc – do so. Mind you, just because you can send short strings to the modem at a particular speed does not in itself imply that you'll be successful transferring masses of data. **AU**

Help direct from Acorn

Essential information for all Acorn users, compiled by Dave Walker of Acorn Customer Services exclusively for Acorn User.

### Questions and answers

**Q:** I see in my default configuration that ADFSBuffers isn't set to zero any more; what does this do?

**A:** The version of ADFS in RISC OS 3.6 has a buffer management system which squeezes greater data transfer rates out of your drives. In earlier versions ADFS-Buffers should be set to 0, however on 3.6 it is possible to allow the disc heads to speculatively 'read ahead' of the data being loaded and cache it in RAM, in anticipation of that data having subsequently to be loaded from disc, and to cache data to be written so that it can be written when the drive isn't already busy reading or seeking.

### Back in ROM

RISC OS 3.6 ships with *Printers* version 1.45. Unlike previous versions of *Printers*, 1.45 is in ROM, along with many of the other bundled applications; for example *Edit*, *Draw* and *Paint* have been incorporated into the ROM. *Configure* remains as a soft-loaded application residing in *!Boot.Resources*, from which it can be removed if (as may be necessary in an education environment) the need arises to disable the machine's capability to configure its CMOS RAM.

It is not obvious how a ROM-based application can be set up to have a given configuration on start-up. This is where the Boot hierarchy comes into its own; the appropriate place to store user-configured parameters – if it is not possible to store such data within the application itself – is within *!Boot.Choices* in a directory created and appropriately named by the application. The boot sequence is currently used by *Printers*, *Alarm* and *Boot* itself for storing configuration parameters.

### UpSet?

RISC OS 3.6 users will find a file inside their boot sequence called *ADFS::4.\$.!Boot.Choices.Boot.PreDesk.SetUpNet*.

This file disables the networking

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# Acorn Customer hotline

modules built into ROM when they are not needed, in order to save memory. It is supplied in the form you need for a machine not using a network at all. If you wish to use a network, this file needs to be altered; the file contains adequate commentary documentation for its configuration in an Ethernet-based system, however it does not make any specific reference to its use in conjunction with the much slower Econet system. The following modules need to be enabled for Econet use:

- NetFS
- BBCEconet
- NetPrint
- NetStatus
- NetUtils
- NetFiler

Once the appropriate modifications have been made to the file, you will need to \*RMREINT the modules which you need to have active and then reboot your machine.

### Access all areas

With *Access+*, you have the choice of making people accessing the exported areas of your disc enter a password before they can do so. Although *Access+*'s plug and play capability remains the fundamental philosophy behind its design, it is possible to make some further modifications:

**Client machine boot:** Client machines can be configured to boot from the *ShareFS* filesystem, as detailed on page 17 of the Acorn *Access+* release note; there is another method of specifying the name of the 'boot disc' which is particularly useful if you are using *Access+* structured sharing, when the 'boot disc' is shared without an icon; that is to use the command:

```
*CONFIGURE SHAREBOOT <discname>
```

This command, however, needs to be followed by the command:

```
*FX 162 81 15
```

in order that the disc will be correctly used as the boot device.

**AccessCD and AccessCDS:** When a system first sees these applications, there is a

possibility that it will cease to accept any user input. This can be prevented by making the following alterations to the file *!AccessCD(S).!RunCDFS*:

Line 31:

```
if "<Wimp$State>" = "desktop" then  
run...
```

should be changed to:

```
if "<Wimp$State>" = "desktop" then  
filer_run...
```

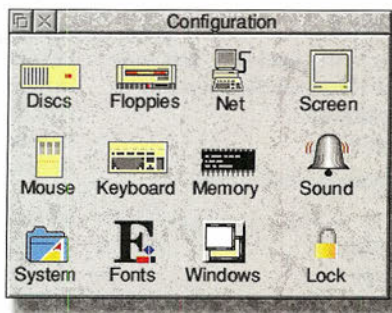
that is, add 'filer\_' to the existing line.

Line 38 (the last line): add a Return character to the end of the line to enable the cache mechanism.

Also delete the file *!AccessCD.sharecd* if it is present.

### At your service...

Some confusion has developed regarding the provision of assistance from Acorn in setting up and maintaining *InterTalk*. As always, postal and email queries to Acorn remain free of charge. The offer from STNC enclosed in the *InterTalk* package pertains to an independent chargeable service arrangement whereby installation and configuration problems are met and dealt with by an engineer sent out to your site. Take-up of the STNC agreement does not affect the support obtainable from Acorn.



*Configure* is not in ROM in RISC OS 3.6. This helps to stop unwanted tampering with the system.

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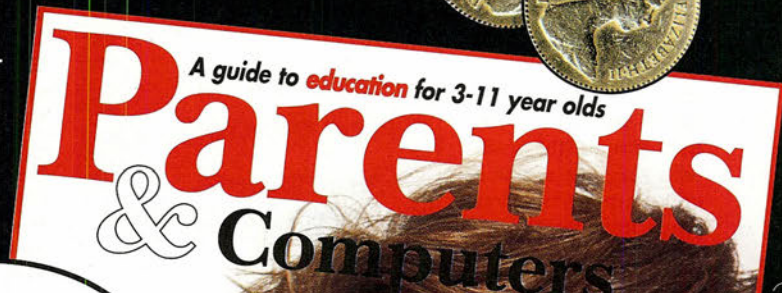
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Parents & Computers issue 2 is on sale 30 November



Last issue I explained about selecting a single file or a group of files, and said that you could open a menu to perform various operations on the files that were selected. The menu is opened by clicking with Menu in a Filer window; if there is already a file selected (with icon inverted) then the menu refers to that file, if not it refers to the file (if any) under the pointer when the Menu button was pressed. A typical menu is shown in figure 1.

### The main menu

The functions of the items on the main Filer menu are described below:

**Display:** this leads to a second menu divided into two halves which controls how the directory looks on screen. The upper half changes the appearance of the files – large icons, small icons or with full date and size information – while the lower half controls how the files are sorted. There are four options: name, date, size and type. If all this is old news to you, have pity on the reader who recently wrote in complaining that ever since he'd bought his Risc PC, the files kept rearranging themselves, and was this some new feature of RISC OS? It

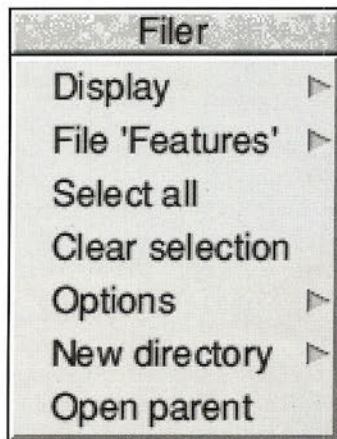
turned out that he'd accidentally switched 'Sort by date' on, but never realised the facility existed though he'd had an Archimedes for over five years.

**File 'filename':** leads to a menu (described later) allowing you to do things to the selected file such as change its name and type. Note that this will change to App. 'appname' when over an application and Dir. 'dirname' when over a directory, or will be greyed out if nothing is selected. **Select all:** selects everything in the directory.

**Clear selection:** de-selects everything in the directory.

**Options:** this leads to a small menu showing the options for copying, deleting and moving files. They are as follows: confirm – ask before performing any operation on a file; verbose – always give information on what the Filer is doing; force – always perform the operation, even if it overwrites a later file of the same name or *deletes a locked file*; newer – only overwrite an earlier copy of a file.

Newer is a sensible option to have set, and should only be turned off if you are sure you are not going to overwrite anything precious. Force is a very dangerous option – use with care. Confirm is an option left on only by the paranoid; it



The main File menu.

makes most Desktop operations far too slow to have on permanently. Note that none of these options will have any effect on an application saving to disc; it is up to applications to police themselves and behave sensibly when asked to overwrite an earlier copy of a file. Not all do this, so beware.

You will also get this menu if you click with Menu over a Filer information box opened when you copy, delete or do anything to a file. The difference is that there will be a fifth option at the top of the menu: 'Faster'. If you choose this then the Filer will perform the operation faster, but other operations on the Desktop will slow down.

**New directory:** allows you to create a

new directory – just type the name in and press Return.

**Open Parent:** opens the directory above the one you are in. You can also do this by Shift-clicking with Adjust on the directory window.

### The file menu

Figure 2 shows the File 'filename' submenu. All the entries on this menu are concerned with performing operations on files (or directories or applications). This is the menu sought after by refugees from the Macintosh, who spend their first half-hour trying to find the wastebasket or attempting to rename a file by placing the caret in its name in the directory window. It has the following entries:

**Copy:** leads to a 'save box' allowing you to drag an icon representing the file to another directory, possibly changing its name in the process. If you simply enter a new name and press Return, the file is copied within the same directory.

**Rename:** allows you to re-name a file. Type the new name in and press Return. The icon into which you type your text initially contains the original name of the file. This is fine if you want to add a '2' to the end, but to rename it completely you will need either to delete the letters or to

# Absolute

clear the icon with the Ctrl-U keypress.

**Delete:** deletes the file. Unless you have 'Confirm' set or have locked the file, this is a fairly irreversible process. There is no 'undelete' menu entry, and to get the data back you would have to use a complicated package like *Archimedes Disc Rescue*. It is rare to delete files accidentally, but you have been warned.

**Access:** leads to the submenu and dialogue box shown in figure 3. These control who can and cannot write to and read a file, and whether you can delete it. The public/private parts of this structure are only relevant if you are on a network, and affect whether or not other users on the network can read a file in your area. If you set a file to 'protected' or 'locked' (they are equivalent) then you will not be able to delete the file accidentally, unless you have 'Force' set as one of the options. This is a very good way of protecting a valuable file against deletion (but then, so is taking a backup).

**Count:** counts the number of bytes in the file, or group of files. If you use 'Count' on a directory (or application), the numbers of bytes of all the files in the directory are added together. This, incidentally, underestimates the disc space used, since there are some overheads in even an empty directory (which is why if you perform a count on your entire hard disc it will suggest that you have more free space than you actually do).

**Help:** only becomes activated for applications which have a file *!Help* within themselves. If this is the case, when you choose this option the *!Help* file is 'run' which usually involves loading it into a text editor. *!Help* files provide useful information about a program.

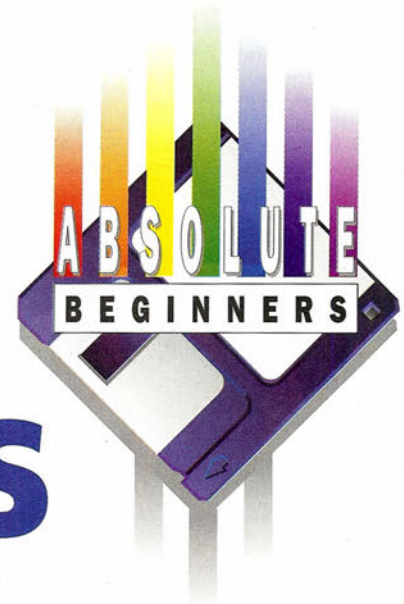
**Info:** opens a window giving information about the file. What is given is the file's name, its type, size, access details and date

### RISC OS 2 users

OK, I cheated. The menus described here are RISC OS 3 menus; the RISC OS 2 ones have fewer entries and will allow you to do less. In particular, the very useful 'Newer' option is missing, as is any entry allowing you to change the file type. The options that do exist work roughly as described in the text, though.

David Matthewman describes the all-important Filer menu in detail.

# beginners



of creation. If the file type has a known icon associated with it, the icon is also displayed in this window.

**Find:** allows you to search a directory or set of directories for a file with a given name. You can also search for directories and applications. If you only know a part of the name you can use the '\*' and '#'

signs in the name to replace missing characters. The '#' sign will stand for a single character while the '\*' sign stands for any number of characters, including none. Therefore, 'Kat#' will find files *Kath*, *Katy* and *Kat4* while 'Kat\*' will find all these and also *Katherine* and *Kat*. Once a file has been found you have the option to run it or open the directory containing it, or to abort or continue the search.

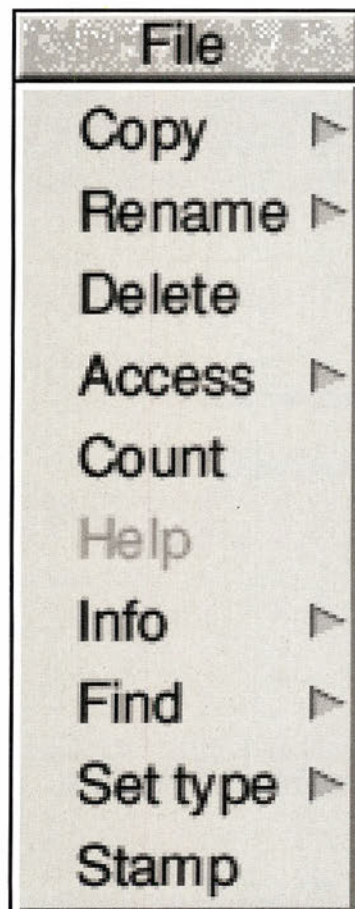
**Set type:** lets you change the file type of a file. This is especially useful when you have imported the file from another computer system or downloaded it from the Internet, and it has lost any file typing information. The type of a file determines what the Filer does with it when it is 'run' by your double-clicking upon it – it may be run as a program, loaded into an editor and so on. It also determines the icon that the file is given.

The file type is a three-digit hex

number, but you usually don't need to remember that. If the type is one that the Filer already recognises – perhaps because you have seen or used an application that knows what to do with it – it will have a textual equivalent such as 'Text', 'Sprite' or 'Archive'.

**Stamp:** this sets the date and time information of the file to the present – useful for updating an old file which might otherwise be in danger of being overwritten by a newer version. Note that this is not usually a sensible thing to do; the date information on a file is usually important and the 'Stamp' option should be used with care.

The beginners' series will be taking a well-earned break for a few issues to make way for more pressing articles, but it will be back next year to offer comfort for those still bewildered by some of the more basic aspects of your machine. **AU**



The File 'filename' submenu.

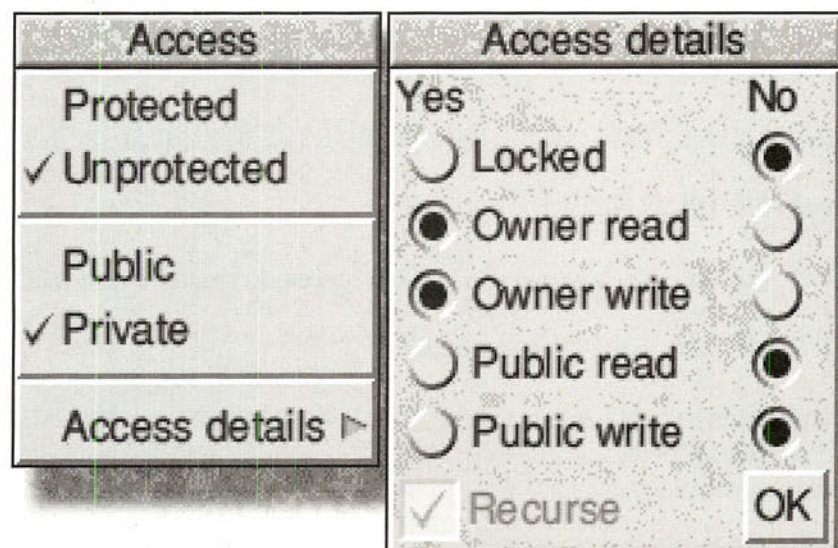


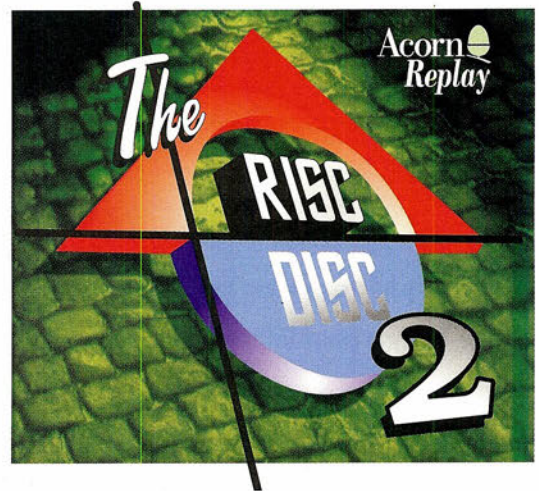
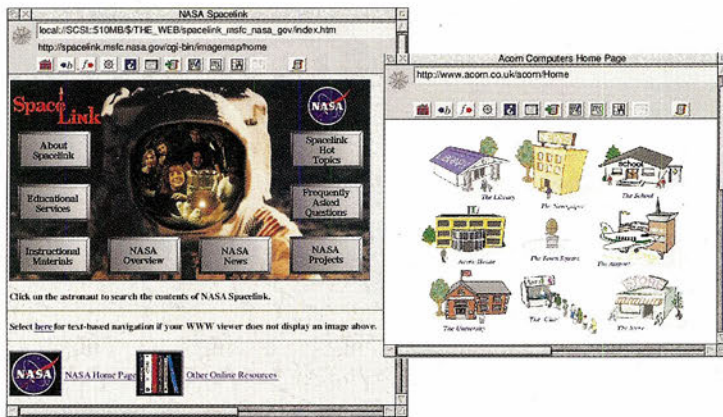
Figure 3 – setting the access details for a file. The dialogue box controls the access details more precisely, but the menu is easier to understand for beginners.

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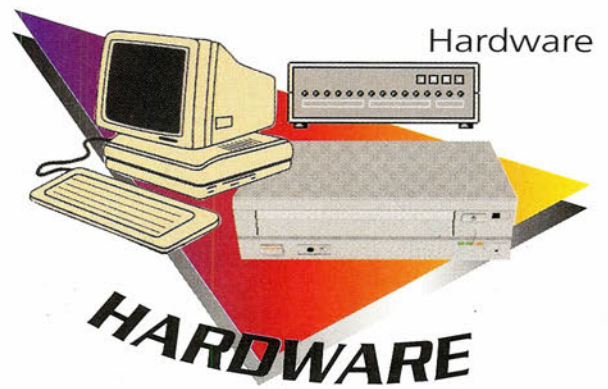
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**II INTELLIGENT INTERFACES**

# Run the RISC



Mike Cook invites readers to 'Hop on board the Bus' in our regular hardware column.

**A**s I said in my first article in *Acorn User* I have two audiences; those friends that have followed me from *Acorn Computing* and those to whom all this is new. Therefore, in an attempt to get everyone up to speed, I would like to look at a method of interfacing I first examined about five years ago, the I<sup>2</sup>C bus (that's pronounced 'Eye squared sea'). If you do remember it from last time there is something new in the Desktop monitor program, but more of that later.

The I<sup>2</sup>C bus is a serial protocol designed by Philips and others to allow the easy interconnection of devices within the same chassis. It is mainly used in consumer electronics like TVs, monitors and video recorders. In fact, if you have an Acorn multisync monitor it is likely to contain some devices that use this bus. What it does for the monitor manufacturer is to cut down on internal wiring by allowing sub-systems to communicate with each other using only two wires; these wires carry a clock signal and a serial data signal.

## The I<sup>2</sup>C bus in your Arc

When Acorn designed the RISC series of computers they used an I<sup>2</sup>C device which contained the clock, calendar and some battery-backed-up memory. This was ideal because it meant that configuration options could be kept permanently in this memory. Therefore, software was included in the operating system to communicate with these devices. Due to a mixture of short-sightedness and cost constraints, the wires for this interface are not available on a socket on the outside of the case but are available on the inside. However, some third-party expansion cards also include a socket for this bus.

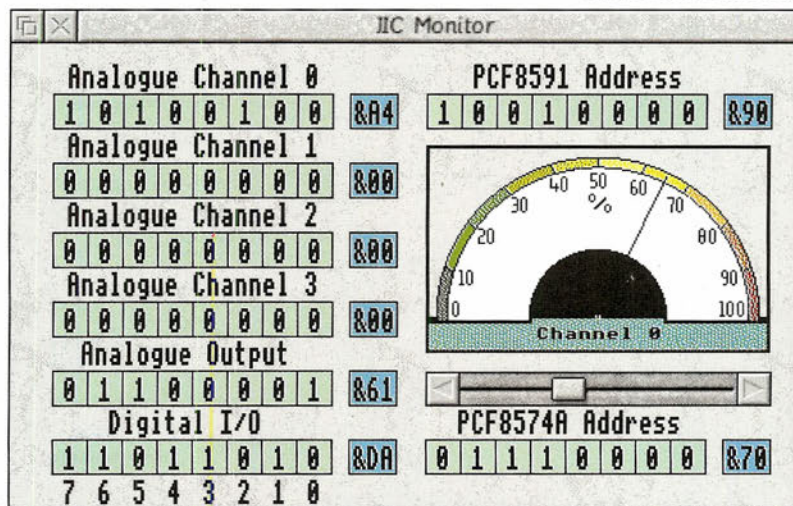
The idea is that all devices are connected to the same clock and data lines, but each device has its own unique address so that the computer can call upon an individual device to engage in data transfer. It is a lot like a network, but instead of having individual computers you have individual chips. Various speed chips are catered for by allowing the sending chip to generate the clock signal or the receiving chip to stretch it. This means that if you want to add another device you simply 'chain' it onto the end of your previous board. The first thing we

have to do is get the signals out of our computer. There are four connections in total: data, clock, +5 volts and ground. All of these are available on the expansion podule backplane, and if you have a computer with no backplane fitted you can plug directly in the socket on the board. Alternatively, if you have all your backplane slots full then you can solder wires on the back of one of your fitted boards.

The backplane connector is a 64-way three-row DIN connector type 41612 C; this means that there are three rows of pins on the connector, but only the top and the bottom are loaded with pins leaving the middle row empty. You can use the 96-way connector of the same type if you have one to hand but the middle row is only used on the Risc PC.

The rows on this connector are labelled A, B and C in absolutely minute printing on the back - you might have to have a magnifying glass to help you see them if you are over 30. What we want is the data line on pin 19C, the clock line on pin 20C and the earth or ground on pin 1C and 1A. It's a good idea to strap these two together to reduce the contact resistance. Finally, if you are using a backplane then you need the +5 volts on pin 32A, otherwise you need to pick that up from the main circuit board.

The *PortMonitor* program has been re-written as *IIC\_Mon* and now features an attractive analogue display.



## Getting the signal out

What you need to do is bring these wires out on a socket of some sort; this can either be mounted on the connector, brought out to a socket on the back of the computer, or on a flying lead. If you do use a flying lead please make sure it is physically held firm inside the computer with a cable tie or even a heap of hot melt glue so there is no tearing of connections when the lead is pulled too hard. Whatever you use, to be compatible with my board and the one sold by ICS the lead should end up with a Molex 5051 socket as shown in figure 1.

There may be a few connectors on the back of your computer that are not used

like the Econet socket; these can be pressed into service for the connector.

Having got our signals out we now need something to connect to them. There are a great many IC chips available – in fact the Philips data book covers two volumes – but most are designed for consumer electronics and are not so useful. Two devices stand out as being very useful indeed: the PCF8574 and the PCF8591. The PCF8574 is an 8-bit input and output port and the PCF8591 is a combined four-channel A/D (analogue to digital) converter and a single D/A

(digital to analogue) converter. Therefore I have designed a board that contains both these devices.

If you need more capability than the boards can be chained together. The circuit is shown in figure 2 and as you can see there is not much to add to the chips except that I have included a transistor as an optional buffer to the D/A. According to the data sheets, unused analogue inputs must be earthed so you will see a select link on each input. This is simply three pins and a shorting link – the type that is scattered inside the computer – and allows you to earth the channels currently not being used. Similarly, there are links on the device address lines: fitting a shorting link gives a logic zero, removing it a logic one.

Each device must have a unique address on the bus. The address is in two parts: a fixed part that is the same for each type of chip, and a programmable part taken from the address input pins on the chip. For the PCF8591 there are four bits fixed and three programmable, which means you can only have eight PCF8591s on the bus but have no need to worry about address conflicts with other chips as the fixed part is unique to that chip type. With the 8-bit input/output port there are two versions of the chip – the PCF8574 and the PCF8574A – which each have a different fixed part to their addresses. All these are shown in figure 3.

## Controlling software

As you know, the hardware is only half the battle, so let's now look at the software to control this bus. Basically, the operating system offers a single call to deal with the I<sup>2</sup>C bus: IIC\_Control which is SWI &240. This is passed the device address, a pointer to a data block and the length of the block. Note that the least significant bit of the address is the read/write line and should be set depending upon what operation you want.

When the SWI call returns, the buffer's contents will have been either sent to the I<sup>2</sup>C device or filled by it, depending on whether you were reading or writing. This means you can rapidly read or write several values with a single command. For example, you could fill up a block of memory with a sequence of numbers and output them all in one go. This is useful for waveform generation or for fast data gathering.

The PCF8574 is simple to operate; you just read it or write to it (make sure that if you are using it as an input you first write logic ones to it). The PCF8591, on the other hand, is much more complex as it contains a control register; this is where the first byte to be written to the device ends up. Subsequent bytes are acted upon according to the contents of this control byte.

The analogue input side is capable of being run in four different modes – each mode uses the input pins differently to create an input channel. The simplest, mode zero, uses each input as an input channel. The others combine the inputs using differential amplifiers to create fewer input channels. A differential input simply measures the difference between two inputs and not the absolute voltage: more on what's available later.

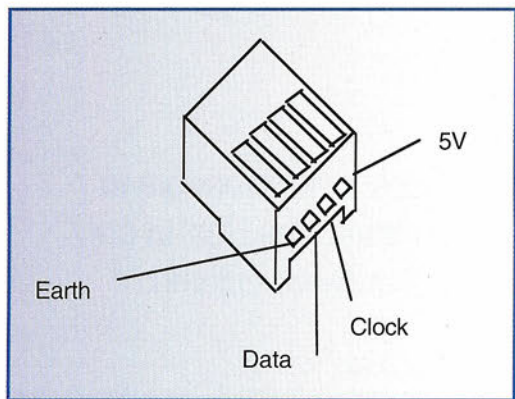


Fig 1: The Molex 5051 socket.

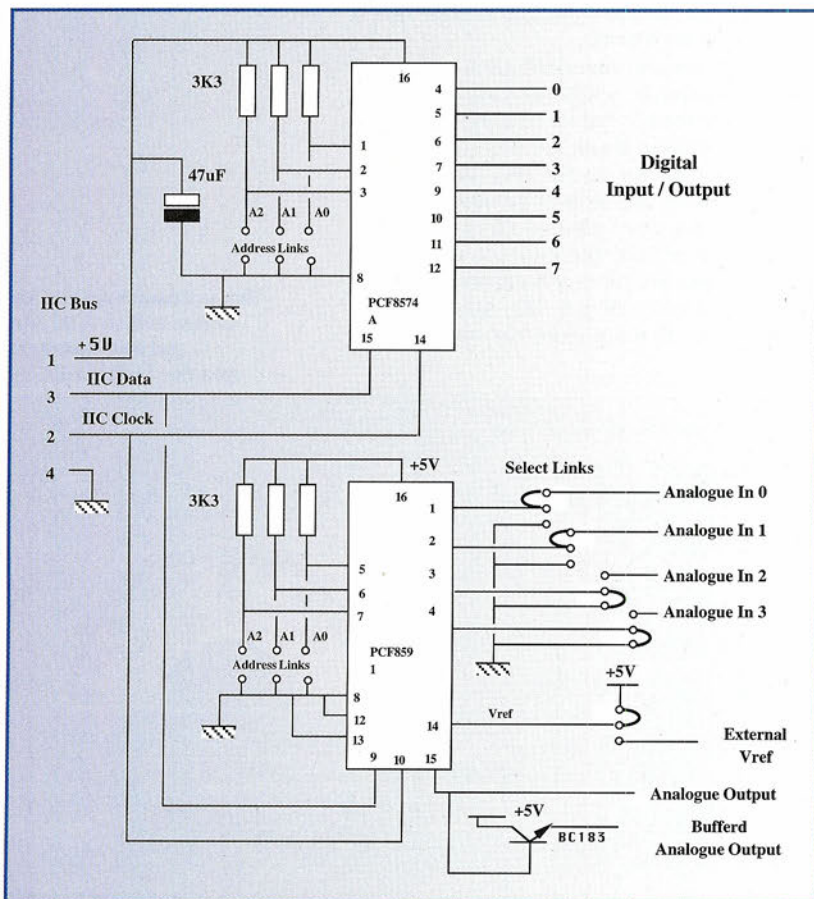


Fig 2: The I<sup>2</sup>C interface board.



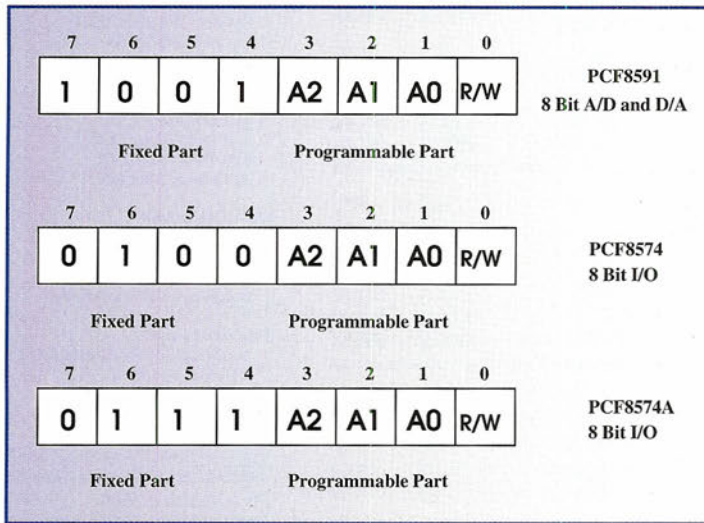


Fig 3: The addressing of bus devices

### The control byte

Figure 4 shows the layout of the PCF8591 control byte. This is the first byte sent to the device, all subsequent bytes will be considered as data bytes. As you can see, bits four and five control the input mode; these bits should contain the mode number you want to use. Bits zero and one control which channel you want to read. Note that in some modes it will be possible to set them to non-existent channels; when this occurs, the PCF8591 automatically uses the highest available channel.

Bit two is the auto-increment flag. When this is set the channel selected will be moved onto the next available one. Finally, bit six (when set) is used to enable the analogue output, and bits seven and three must be at zero.

If you are writing to the board, then all bytes after this control byte will be sent to the analogue output. If you are reading from the device, the first byte read will be the value of the last channel to be converted. While this is being sent, the next channel is converted and sent out as the second byte. That's why in the test software, described below with the increment flag set, the channels were read in the order Ch3, Ch0, Ch1, Ch2.

### The software

On the cover are four simple programs that illustrate reading and writing to each device. It is written assuming all address links are made, that is giving a logic zero.

When writing to a device, the programs put out an increasing binary count giving a ramp on the analogue output or a series of differing frequency square waves on the digital outputs. The reading programs show the result in hex for the digital input or each four of the analogue inputs.

These are simple BASIC routines suitable for incorporating into your own programs. However, I have found the parallel port monitor so useful, I have written something similar for the I<sup>2</sup>C bus. It turned out to be a much more complex application because these are much more flexible devices. This is also on the cover

disc and it is so friendly that you can run it without any extra I<sup>2</sup>C devices attached; if you do, the data boxes will contain 'X' instead of '0' or '1'. The application can be used on any programmable address of the two device and with any mode.

The analogue digital inputs and outputs are shown in both binary and hex form to allow you to easily test and debug any circuit you connect to these devices. Simply click on any of the bits to change their state. In addition, one of the data channels can also be routed to an analogue-style

meter, which is divided into percentage markings. When a value is half full-scale or &80 it will show 50 per cent. The analogue output is coupled to a slider bar for easy adjustment, as well as being able to set each bit.

Perhaps the best bit is the A/D converter mode selection menu – instead of using a single word to describe the mode there is a diagram of how the inputs are connected up so you can see the different wiring options you have. Note that if you choose a mode with less than four analogue inputs the unused boxed will disappear and if a meter was connected to one of these it too will disappear. Suffice it to say, it took a long time to write this application.

Well there you have it: another weapon in our interfacing armoury. If you would like to see any of the I<sup>2</sup>C projects I covered in the past, they are available on my ftp site (149.170.200.3) or through my WWW pages on <http://149.170.200.3/Physics/Acorn/About.html>. I hope to make old *Acorn Computing* articles available there, but it will take time to **AU** convert them.

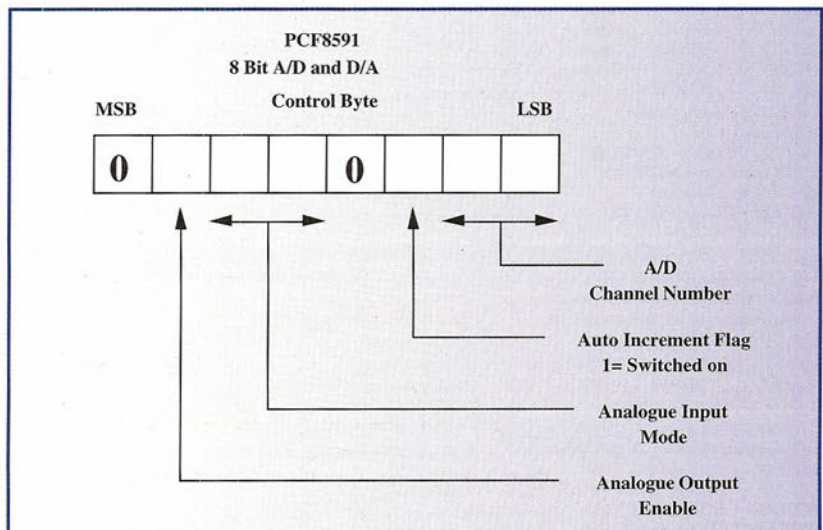
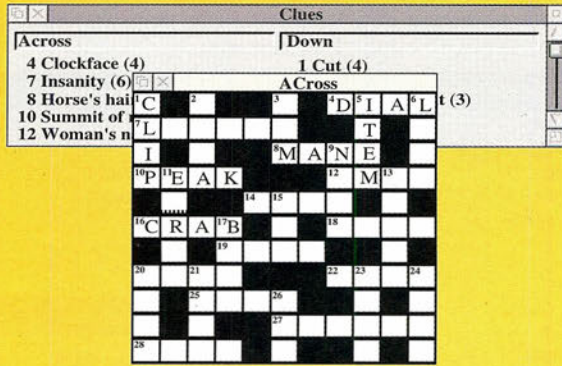


Fig 4: The control byte





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# \*info

Dave Lawrence and Dave Acton present more programs, tips and techie trivia from beyond the PRM.

## See amid(i) the winter snow

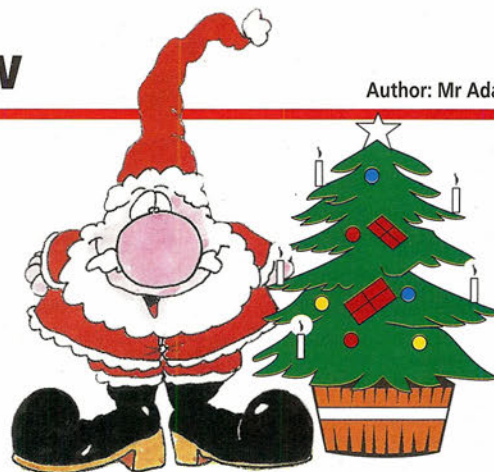
Author: Mr Adamson

We do apologise for the appalling 'MIDI' puns over the last couple of months; we promise to try a little harder next time, especially as Mr Adamson has threatened to move us next to Stinky Gordon in double French next week.

This is the first of two instalments of 'that-time-of-year' music. I'm sorry but I can't bring myself to use the C word, as it's

only mid-October as I write this! Here then are six C... C... C... ..tunes in Midi format - throw another log (a natural one of course) on the fire, gather around the Roland and join in if you like.

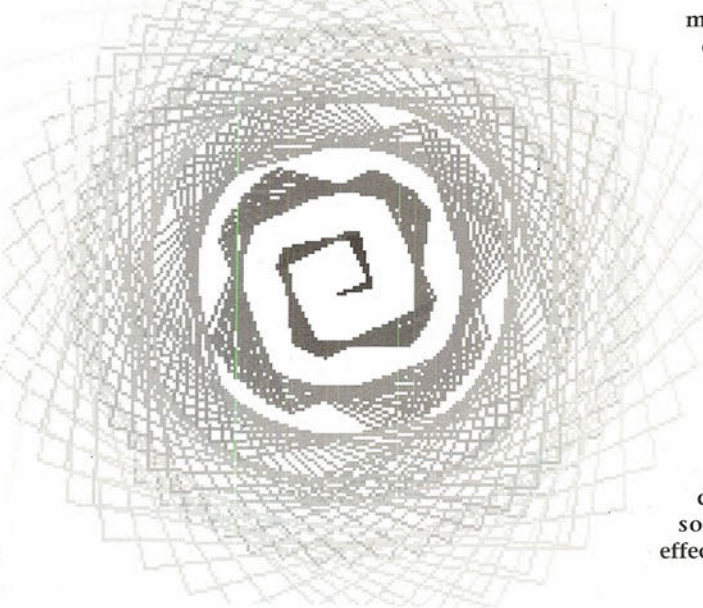
As the files are in MIDI format, you'll need a MIDI interface to hear them in their full glory, although *Rhapsody 3* from Clares will play them in the Desktop.



## Spinny Stringy Thingy

Author: Mark Adcock

The author of this short doodle is quite adamant that Stringy Thingy is not his name. Well, he's quite right because he's signed the letter Mark Adcock. We hope that sorts that out for you Mark. The program *ST* had us fooled for quite a while as you run it and nothing much seems to be happening. To get things moving tap < or > to make the greyscale line start to rotate slowly. More taps will speed it up, tapping the other key will slow it down and ultimately



make the line rotate in the other direction. As it rotates it leaves a trail behind it which in the short term builds up quite an interesting pattern. Pressing (and holding) the Shift key inserts a clear screen command into the plotter and will show you just the rotating line. Alternatively, hold down Ctrl to make the program leave the trail on the screen for a short period of time. As the time period is calculated randomly this can produce some strikingly different effects.

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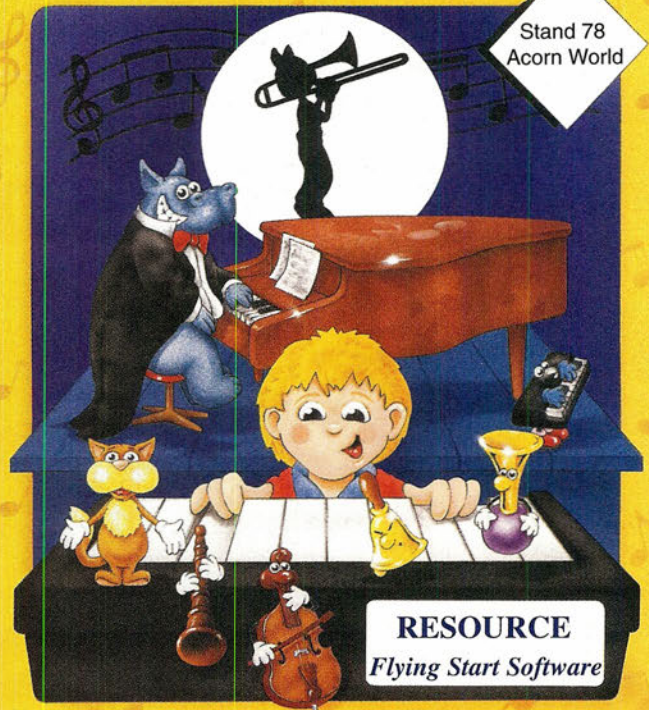
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# A Pinch of Salt

Author: Darren Salt

Long standing \*INFO contributor Darren Salt has a little utility for us to cut down the old finger work. The module *SetAlias* makes the task of setting aliased commands and filetypes easier to remember and shorter to type. Eleven commands are provided:

```
*Alias <cmd name> <action>
*UnAlias <cmd name>
*FileType <number> <name>
*LoadType <number> <action>
*RunType <number> <action>
*PrintType <number> <action>
*SetDir <name> <dir>
*SetPath <name> <path>
*UnsetDir <name> <dir>
*UnsetPath <name> <path>
```

These provide quick access to the sometimes difficult to remember sequence of characters needed to set (or unset) the relevant system variables. For example \*RunType actually performs:

```
*Set Alias$@RunType_<number>
<action>
```

One additional command is also provided:

```
*X <*command>
```

This is perhaps the most useful of the lot and executes a \* command but does not return any error generated by the command.

You might be interested to know that you could, in fact, do all of the above (except for \*X) simply with aliased commands. For example to give \*Alias and \*UnAlias you'd have to use:

```
*Set Alias$Alias Set Alias$%0 %*1
*Set Alias$UnAlias Unset Alias$%0
```

Of course, once you'd typed the first one you could set the second one

with your newly created \*Alias command!

## Arfle barfle gloop?

If this is all Greek to you and you've never heard of aliases and system variables, read on for the two-minute lesson.

Aliased commands are an incredibly useful way of extending the functionality of the OS without having to resort to writing machine code and modules. For a simple example, say you wanted to add the command 'ls' to be like the UNIX command to catalogue a directory. In RISC OS you'd type cat (which can also be abbreviated to a full stop). To do this at a very basic level you could use the aliasing system as follows:

```
*Set Alias$ls cat
```

This sets the system variable Alias\$ls to contain the string 'cat'. System variables beginning with Alias\$ are taken to mean new OS-like commands, in this case the command ls. The value of the command (the string 'cat') is executed if the user types the command - try it now.

The first problem with this comes when you try to catalogue a directory other than the current one. Unless you typed a space after the 'cat' you will be given a nasty error message if you try a command like ls subdir. To get round this we need to add a parameter to the command, using the % notation as follows:

```
*Set Alias$ls cat %*0
```

Any parameters given after ls are numbered 0 to 9. They can be substituted into the command executed by referring to them as %0 to %9. In the above example there is an extra

star between the % and the 0, which means all the parameters from 0 onwards. (In fact this is superfluous here as cat only takes one argument.)

To make this example a little more interesting, suppose you wanted to be able to type ls.. to catalogue the directory *above* the current one, in the same way UNIX does; this can be achieved with:

```
*Set Alias$ls If "%0" = ".." Then
cat ^ Else cat %0
```

The if statement checks if the first argument is .. and if so issues the RISC OS runes to catalogue the parent directory as a special case, otherwise the standard cat command is issued.

It is also possible to modify the function of existing commands. Suppose you always wanted \*cat to list the full information on files like \*ex, you can simply alias cat:

```
*Set Alias$cat ex %0
```

If you still want to use the original cat command you can type %cat to bypass the aliasing system. So to add a different command to perform the original cat command you'd use:

```
*Set Alias$Files %cat %0
```

Can you guess what would happen if you missed out that extra %?

Once you've had enough of your command you can remove it by simply deleting the system variable:

```
*Unset Alias$ls
```

This is only a taster of what the aliasing system can do, with a little thought and a little ingenuity it is possible to do all sorts of things without having to crank out some code.

# The emulation game

Author: Michael Borchers (from an original program by Richard Averill)

This is an update from a program published way back in June 1989 - two years before the birth of \*INFO! In those days, your monthly dose of ARM doodling came under the banner of Arc Agora (Archimedes Forum being a historical *faux pas* as The Man Himself was a Greek).

Six years ago, Richard Averill presented a module that, as far as we can remember, allowed the mouse to be used as a joystick and read with the BASIC function ADVAL. The update (*Joystick95* if you will) appears courtesy of Michael Borchers; he has rechristened the module *Joystick* and most importantly made it compatible with the Acorn joystick SWI as provided in RISC OS 3. Unless you have a A3010, this module will be dormant on your machine. On an A3010, it can be used to read the state of a digital or analogue joystick plugged into the machine's joystick

port. The interface to the module is fully documented in the PRM and thus allows third parties to write replacement modules for different joystick hardware or even different positioning devices such as a light pen, touch screen, graphics tablet etc. Programs using the approved SWI will then work with the new hardware with no modification.

Richard's module reads the mouse position and returns positional information in either digital or analogue form, selectable with a \*command. The right-hand button (Adjust) is treated as the fire button. A simple test program *JoyTest* can be used to see the difference between digital and analogue; holding the fire button down will leave a trail behind the pointer in analogue mode but at only one of nine positions in digital mode.



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## Through the mangle

Author: Andrew Markwick

A mathematical utility from Andrew Markwick next, *Mangle* converts numbers between inches and centimetres, tons and kilogrammes, grains and scruples, to name but a few. It is also fully expandable, so if the conversion you require is not among the 98 it already knows, then you can teach it. Of course, it's not the calculation that's tricky, it's knowing that magic constant. Unfortunately the conversion is strictly performed on ratios, so it cannot translate centigrade to Fahrenheit.

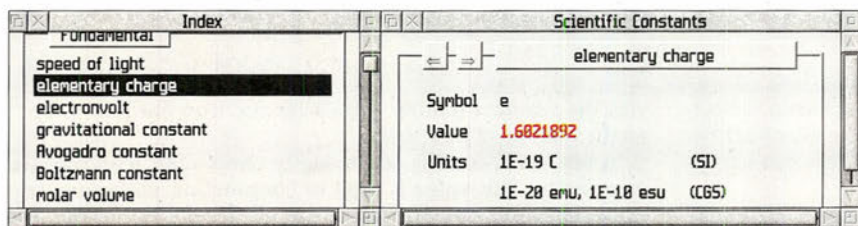
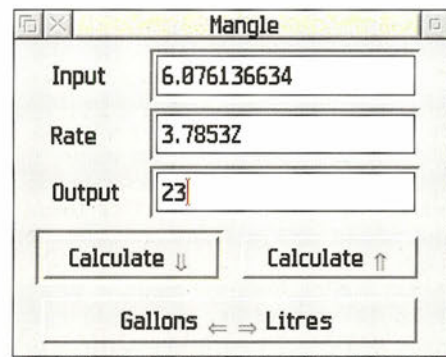
To use, first select the conversion you require. Bring up the main menu and select the main category – this will fill in the first translation available in the title box in the middle of the window. Clicking this with Select

and Adjust will cycle through the available conversions. Now type in your source figure: if you're going from left to right then enter the number in the input box, if translating 'backwards' type the number in the output box. The conversion can then be performed by clicking on the appropriate calculate button, the answer will be calculated and inserted into the other box.

User options can be added by toggling the window to full size and adding them in the extra icons at the bottom – make sure you enter a rate and a name. These options will appear on the main menu in the 'user' section. User options can also be deleted from here.

As an accompanying program to

*Mangle*, Andrew has also written *Constant*. This knows 157 mathematical, physical and chemical constants and their units – everything from the



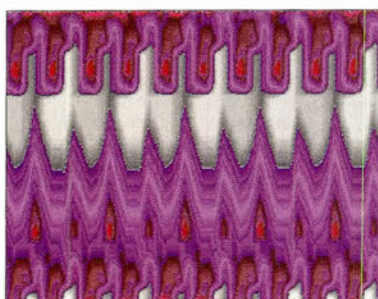
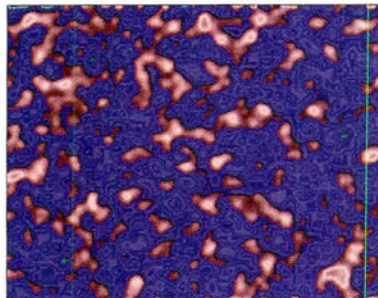
fluxoid quantum to the permittivity of a vacuum. As with *Mangle*, you can use the main category menu to find your constant or probably more easily the scrolling index which shows all the constant names. A simple search facility is also provided, but you have to know the exact name of the constant including the case, so remember it's Avogadro not avogadro...

## Terra-vision

Author: Daniel Patel

A trio of graphical ditties now from the plasma school of art. They come courtesy of Daniel Patel who is, we believe, our first Norwegian contributor.

The idea behind the demos is quite simple. A smoothing rule is applied to each pixel of a 'hidden' screen and the results plotted on the screen proper. The rule in this case consists of averaging the values above, below and to the sides of each pixel.

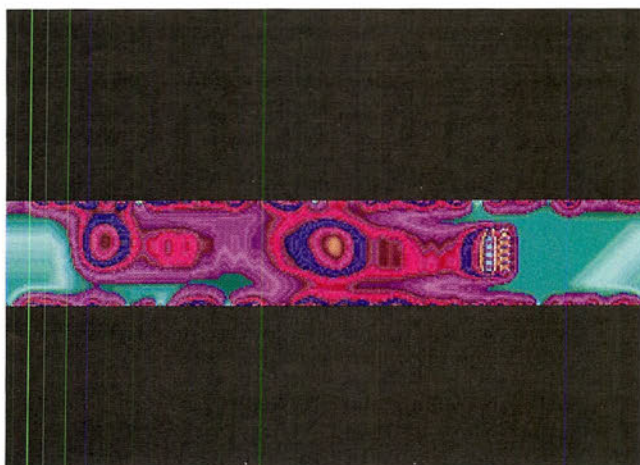


A short bit of BASIC sets up the colour tables which are used to enhance the effect. Random colour changes are chosen each time the program is run. Having decided which colours are going to change into what, a short piece of BASIC is used to 'in-between' the hues and generate a lookup table.

*TerrArt* is the base program. The screen is randomised to begin with. Soon, coloured patches emerge from the mire and swirl about as only coloured patches can.

Eventually the patterns dissolve (quit the program at this point, as nothing else is going to happen). *TerrArt2* begins with a different screen setup, which leads to a pleasant (or indeed, unpleasant) dripping effect.

Finally, *DrawArt* is the interactive version. The screen has become a narrow strip, for speed purposes we assume. Move the mouse and stir that plasma. You will see from the program that &FFs are simply inserted into the 'hidden' screen around the location of the pointer. If you have ever waved a hot potato waffle in front of a thermal imaging camera, you may have seen something like this before. If not, you haven't lived.



# Better backdrops

Author: TR Tanner

Smarten up your desktop with this easy-to-use backdrop processor from Mr T R Tanner of Wiltshire. He has written an interface to the *ChangeFSI* utility which allows you to convert more or less any image directly into a backdrop.

Once *GenBackDr* is installed, just drag the image file onto the icon and wait while it is processed. You can control how the image is processed by selecting the Processing option from the menu. A window will be opened providing similar options to *ChangeFSI* itself. Tick those required and click on OK to reprocess the image.

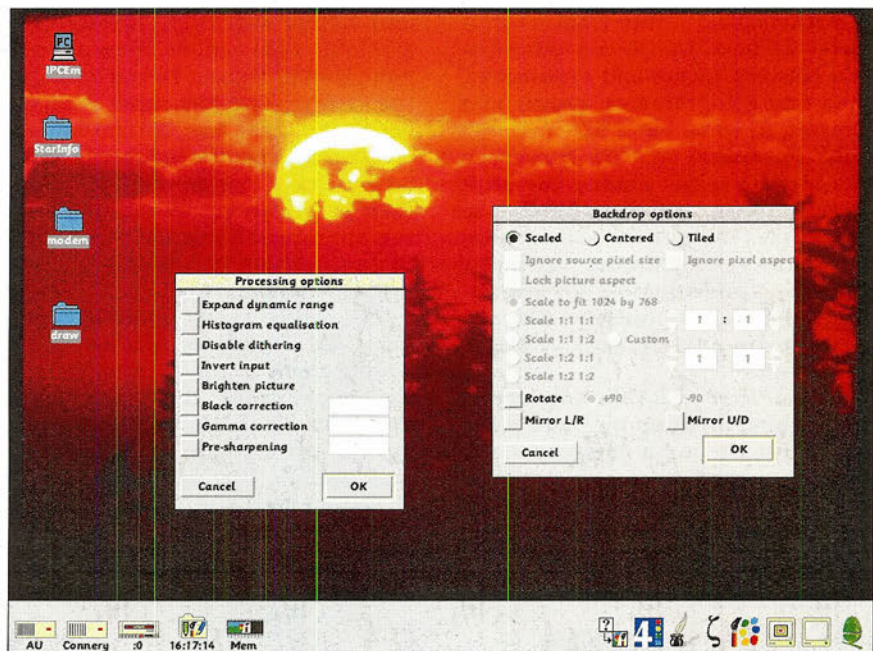
Select Scaling from the menu to bring up another window. Here you can choose whether the backdrop sprite is to be scaled, centred or tiled. In the case of the latter two, you can control how the image is to be scaled. There are also options to reflect and rotate the picture. Again, these facilities correspond to those provided by *ChangeFSI*.

Finally, when you are happy with your backdrop, select Save from the menu. It will be saved in the *!GenBackDr* directory. When the application is reloaded, the backdrop will be reloaded.

The author points out that only images *ChangeFSI* can cope with are suitable, since it is *ChangeFSI* that does all the work. Also, Interactive help and Desktop save are supported by *GenBackDr*.

## Icons aside

You may notice that the *!GenBackDr* icon installs next to the Display Manager. In case you were wondering how to do this, it is a simple extension to the *Wimp\_CreateIcon* call in RISC OS 3. In RISC OS 2, this SWI was called with R1 pointing to a block describing the icon. The first word of the block



was the window handle, which for the icon bar had to be -1 (right side) or -2 (left side).

In RISC OS 3, R0 may additionally contain an icon number or priority. This value is used in conjunction with new 'special' window handles of -3 to -8. Their meanings are summarised in table 1.

It is recommended these days that you use codes -5 to -8 if you want to put your icon in a special place. In this case, R0 contains a priority. Where it appears on the icon bar depends on the priorities of other icons. Table 2 shows the priorities of the most important standard icons. So for example, to place an icon just left of the Display Manager, use a window handle of -8 and a priority of, say &58000000. Always choose values appropriately so your icon is in good company.

**Table 1 – possible 'window' handles for creating icons on the icon bar**

- 3 create icon to left of icon R0
- 4 create icon to right of icon R0
- 5 create icon on left side, scanning from left
- 6 create icon on left side, scanning from right
- 7 create icon on right side, scanning from left
- 8 create icon on right side, scanning from right

**Table 2 – major icon bar priorities**

Task Manager	&60000000	'Apps' icon	&50000000
Help	&40000000	RAM disc	&40000000
Palette Utility	&20000000	Ethernet	&30000000
Applications	0	Econet	&20000000
ADFS hard discs	&70000000	Other FSs	&10000000
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# \*QUIT

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You needn't include a letter but do please put your name, address and program title on every disc and include a text file containing at least your name, address and disc contents. An SAE will ensure your discs are returned and any other instructions, diagrams, saved screens etc are also gratefully received. And if you e-mail us, please include your 'real' address too!

## Compatibility table

All the \*INFO programs except *GenBackDr* and *3DSurf* work on all versions of RISC OS; the two exceptions don't work on RISC OS 2. With *3DSurf* this may be a memory problem, as our RISC OS 2 A310 only has 1Mb in it, so if you have a machine with more memory it's worth a try.

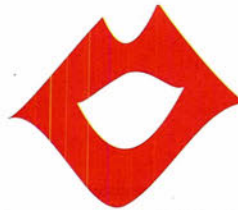
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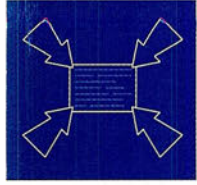
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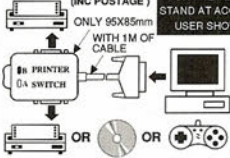
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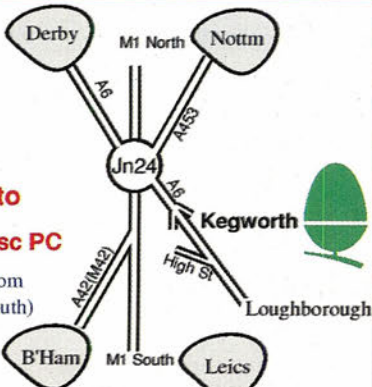
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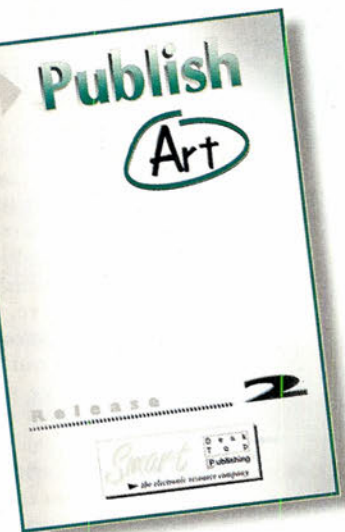
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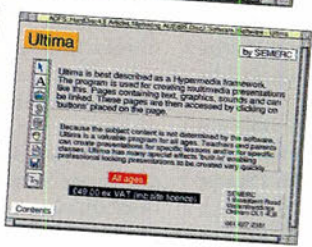
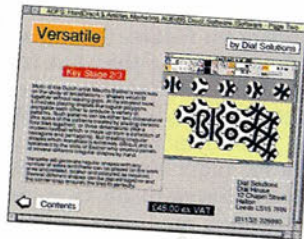
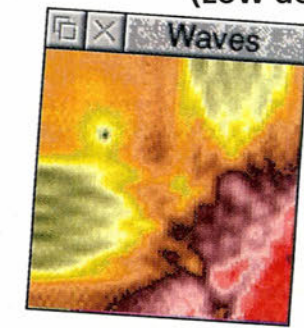
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REGAN

# The Moxon Interview

Mark Moxon

**There are more important things to do in pubs than discuss RISC OS.**

It's a beautiful summer's day, and my interviewee is sunning himself on the roof of the pub he works in. There's Blur on the stereo, garden gnomes in the bar downstairs, and the only noticeable link to computers is the Pocket Book II casually laid among the fashionable newspapers and magazines. The sun-lover is Mark Moxon, ex-editor of *Acorn User*, and this classic London pub is where *Acorn User* has been run from for the past nine months.

Being an editor of *Acorn User* is one of those jobs with a rather unclear career path; it's a bit hard to see the rookie *Acorn User* editor serving his time as a stringer on a provincial *Acorn* computer magazine in Aberdeen.

'I was in the right place at the right time,' smiles Mark modestly. 'I was doing Maths and Computation at Lincoln College Oxford - I'm a founder member of the Oxford Archimedes Group - and was sponsored by the MoD. Most of my work was covered by the Official Secrets Act, so all I can tell you is that I got to watch the bubbles rising in the liquid supercoolant which surrounds the circuit boards in a Cray 2, which was a right bundle of laughs.'

'I hadn't applied for any jobs because I'd made up my mind that I was going to buy a camper van and travel round the UK. I quite fancied investigating all the pubs in England, as I'd not really seen much of the

country I lived in. The plan was to fund this by getting any old job for six months then to head off on my own personal road movie.

'By chance I got the latest issue of *Risc User* and they wanted a technical assistant, so I applied and got the job. On the day I started their technical editor left so I suddenly ended up doing both jobs. The I found out how much camper vans cost and quickly invented Plan B.'

Plan B arrived in the shape of the post of technical editor at *Acorn User*, back in February 1993 when Karen Donaghay was editor and the magazine was published by Redwood Publishing in London. Soon afterwards two major upheavals in the magazine's life took place; Karen left to go travelling in India and *Acorn User* was bought by Europress. Despite his relative inexperience, Mark convinced Europress that he had the imagination and drive needed for the job of editor.

Mark lives - as has been pointed out - above a pub in London. Europress (now IDG Media) is based just north of Macclesfield, over three hours' drive away. However, because so much of the *Acorn* market is based near London, Europress allowed Mark to stay there, only commuting to Macclesfield for one or two days a week.

'It worked out for the best anyway, but I'd never have moved north again,' says Mark, a native of Stoke-on-Trent turned Londoner, accent and all. 'For the past nine months, and with the aid of a fax modem, I've run *Acorn User* from above a pub. What more could I want?'

'In that time I've laid out and typeset an entire issue and two supplements and done a full redesign on the magazine. The redesign was mostly based on *Cosmopolitan* and other women's mags - just because we are a computing magazine doesn't mean we have to look dull, boring and drab. I wanted something that looked good; well-written and interesting, but with the style to match.'

The interview started on the roof of Mark's pub flat in London but the photo was taken at Mottram Hall, a grand hotel in the Cheshire countryside, where Mark stayed when he visited Macclesfield. The endless travelling along the M6 finally got to him; by the time you read this, Mark will be on the other side of the world in Australia, having left his job at the start of October. The Pocket Book's going with him, but only as a very minor part of his luggage.

'There's more to life than computers,' says Mark, as he pauses on a stile in the hotel grounds and considers his future. 'That'll be heresy to some people reading this, but it's true. Occasionally someone would corner me in the pub in the evening and try to talk *Acorn* at me. I'd tell them to chill out - sometimes I'd be a lot ruder - because there are more important things to do in pubs than discuss RISC OS. Trust me.'

Jill Regan **AU**

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