



FULL PRODUCT



ROUTE PLANNING SOFTWARE

AA Milemaster Britain 1999

Paul Ravening packs a picnic, jumps in his car and goes for a nice day out. Can **AA Milemaster** help him get to his destination?



AA Milemaster can help you find the right direction.

Now that summer's here, anyone who uses PCs day in, day out, deserves a break. And nothing beats a good old fashioned English seaside holiday. But before you pack your sandals, handkerchief and the factor 15, you'll need to know how to get to your sunny destination. The

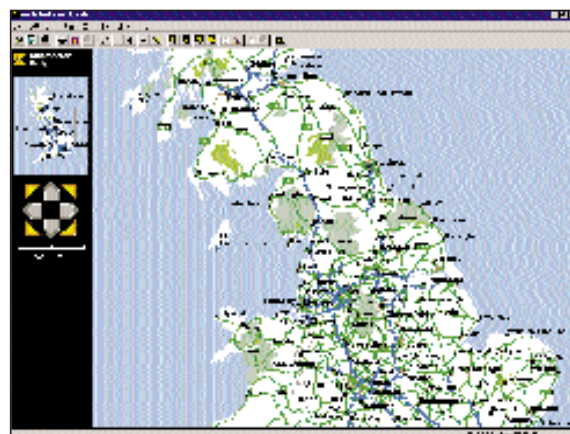
last thing you want is to be in the middle of a field in Devon, with a full car, out-of-date map and the obligatory back seat driver. Rest assured though, here on *PC Plus* we have help in the form of AA Milemaster 99.

All your navigation woes can be cast aside once you've installed AA Milemaster. It really is as easy as a few clicks to get in-depth instructions of how to get to your destination.

You can choose to go the quickest route or, if you've got time on your side, meander along the scenic route and stop off at a nice country pub.

Places of interest

The program also holds information on every significant place in the country. If there's something interesting to be noted, chances are it's here. Its database holds details of accommodation around the country and points of historical interest. So if you're off on your travels and need details of a hotel in Milton Keynes, then all you do is type MILTON KEYNES and tick



It's the island that we all know and love. Finding your way around it will be so much easier once you've got AA Milemaster.

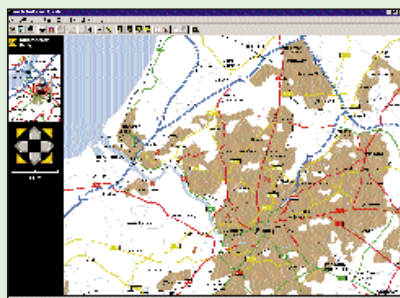


FULL PRODUCT

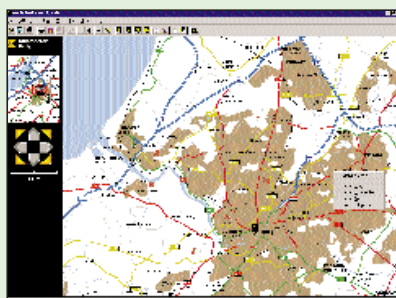


WALKTHROUGH

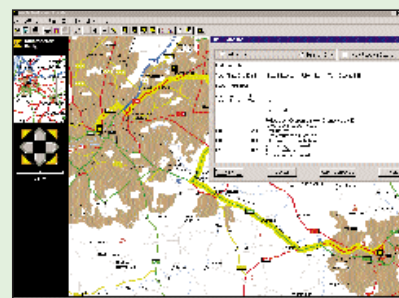
How to work out your quickest route



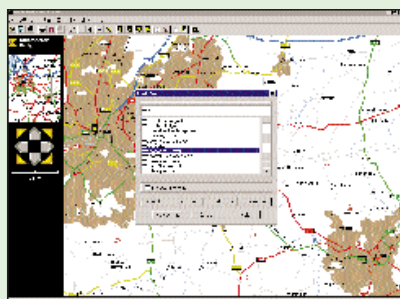
1 When the program's loaded, you'll see Milemaster's main screen. It's a plan of the entire UK, showing all the major routes and inhabited places in the country. So let's get going. First, zoom in on your start point, in our case, Bristol. Click on the general area of your start point, then click the Zoom in button on the tool bar.



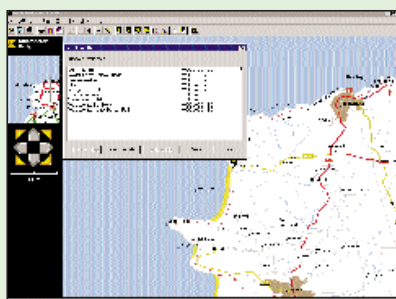
2 So there's Bristol. Right-click where you want to start your journey, and choose Origin to set it as your starting point. It's early in the morning, so we could do with a bit of breakfast. Being the health freaks that we are, we're going to pay a visit to Terry's Takeaway van in Fishponds. Right-click Fishponds and choose Via to set it as one of your waypoints.



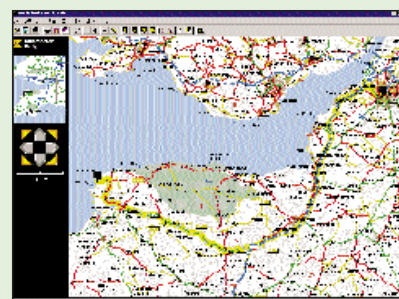
3 By using the controls on the left of the screen, move the map to the right until you see Bath. Right-click it and set it as your destination. Then choose calculate – it's the icon that looks like a abacus. The program will do its thing, and give you a table of results.



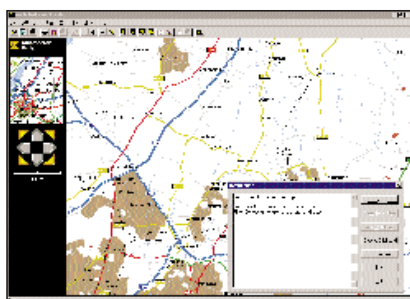
4 Here we are in Bath. Tomorrow's the weekend, so why not plan a route? We'll set our origin point as Bristol and use the option on the Find menu to find our weekend destination: that all-time surf paradise, Woolacombe. If we're going down for the weekend, we'll need a place to stay.



5 Use the Find menu again and choose Points of Interest. In our case it will be hotels, campsites and the odd local pub. Type the name of the town you are interested in, check the boxes to comply with your choice and let it find them. You can then choose to have the program show them all on the map.



6 So the weekend's over. We've spent all our money, been rained on constantly and it's time to head back.



AA Milemaster can tell you lots of interesting facts about the places you might want to visit. For example, iron was once mined in Iron Acton. Would never have guessed...

The program also holds information on every **significant place** in the country. If there's something interesting to be noted, chances are it's here

the hotel box and you're away. Plus all the usual public places you'd expect to find on a map are there too: from Little Chefs to historic sites.

You can also create personal places. So, if somewhere that you go regularly isn't on the map – such as your house or the local chip shop – then you can create it if you can tell where it is on the map.

It's as easy as finding the place you want to go, putting a virtual pin in it, and letting the program do the rest. Although it's not quite as detailed as some conventional road maps, it's

certainly sufficient to help you get to your destination easily.

The program also produces a step-by-step route plan. This is a detailed and easy-to-use guide to getting where you want – and much better than hasty scribbles on the back of an envelope. It has descriptions of the exact roads you'll need to take; places you should visit; the distance you'll be travelling; estimated fuel consumption; and the estimated time of your journey – with provisions for rest stops and stopovers. In practice, we found it extremely accurate.

So what other advantages do you get with this program, compared with the good old fashioned hardback atlas? Well, for starters, there's no hardback atlas – a couple of sheets of paper from your printer is all you'll need to take with you.

Of course, the program can't predict all the horrors that the British road system can throw at you: tractors, horses, the odd traffic cone, but if you know where you want to go, you need never take a road map with you again.

Paul Ravening



INSTALLATION PROGRAM

Setup Factory 4.0

Have you designed a wonderful piece of software, but shiver at the thought of creating an install program? Paul Ravening shows you how easy it can be with **Setup Factory 4.0**

Setup Factory 4.0 is an easy, time-saving, economical way to create a professional looking installation process for your software product, data files, graphic images or whatever else you want to distribute. Unlike other tools that make you use script languages or fill out text files and other forms, Setup Factory 4.0 uses a completely visual 'object oriented' approach. This means you can point and click your way to a distribution disk set, create your masterpiece and then let Setup Factory 4.0 worry about getting it out of the door!

So there's no need to worry about the complexities. Setup Factory 4.0 leads you by the hand through the task of creating a setup program – an object oriented project approach provides flexibility and ease of use. The program has a completely visual interface so there's no programming, script languages or configuration files to deal with.

Using the Setup Factory Project Wizard will have you up-and-running in minutes. By simply answering a few questions, it is able to generate a custom project for you. And, unlike other less capable tools, you have the power of Setup

Factory 4.0's menu commands at your disposal to help fine tune and customise your project. Setup Factory 4.0 is completely automatic. Once your project is ready, simply click on the build button. It will compress your data, calculate CRC-32 values to ensure data integrity and create your customised installation program. Easy.

Setup Factory 4.0 can create single file setups. When you tell it to build your disk set, all your files are compressed and automatically combined into the setup.exe file. You're the boss: you can tell Setup Factory 4.0 to split this file up over multiple disks or simply output the whole thing to your hard drive – a great convenience for Internet or other on-line distribution of your software. And you have full control over adding, removing or modifying any file in your project.

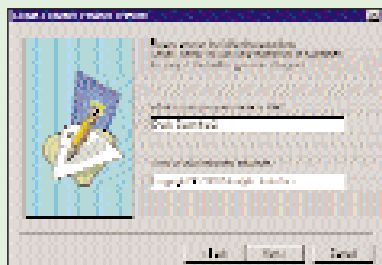
Despite all this technical wonder, you don't want your front-end putting users off your program – you want it to be simple and nice to look at. In order for you to have control over the appearance of your installation, you can choose from a huge array of background wallpaper options, such as gradients and patterns, bitmap tiling, header and footer

WALKTHROUGH

Getting started with Setup Factory 4.0

In this first part we will create a distribution disk set and setup.exe that does everything you would expect a good setup program to do. We want it to display a welcome message, ask the user where to install the files, prompt for a folder to add the program shortcuts and then install all of our files and notify the user when we are done. The easiest way to do this is to use the Setup Factory Project Wizard.

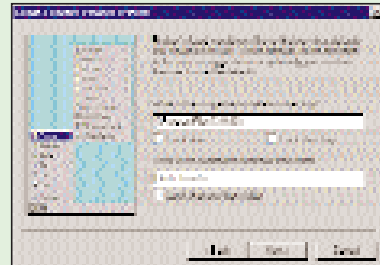
1 The first Project Wizard screen after the introduction screen is used to collect general information about your software. Fill in the fields with the information that's relevant to your program. Click on the Next button when you are ready to continue to the next step.



2 On this screen, we enter the home directory of our software. If you are not sure where the directory is, use the Browse button to navigate the directories on your hard drive. Our Internet suite is stored in \NETSTUFF and has subdirectories below it.



3 On this screen we enter the name of the suggested installation directory and shortcut folder. Since we are not locking the drive, directory or folder, the user will be able to enter something other than the suggested defaults during the installation.





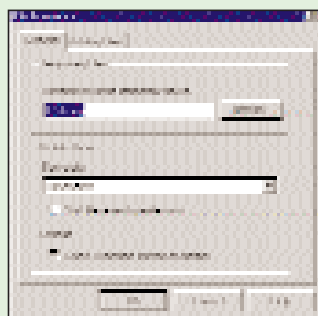
FULL PRODUCT



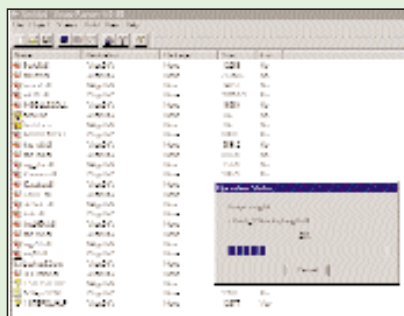
WALKTHROUGH CONTINUED

After you click on the Next button, you will be presented with the last Project Wizard screen. It says that there is now enough information to generate your project. Click on the Finish button when you are ready to generate the custom project. After a few seconds you will be staring at Setup Factory's main screen with your new project all ready to go!

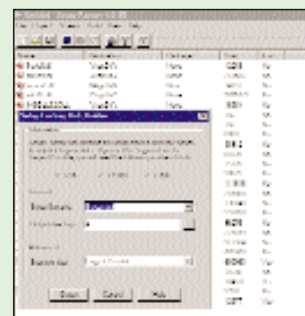
4 By default, Setup Factory has selected all of our .exe and .hlp files to have shortcut icons created for them. It simply uses the filename for the description. Being creative folk, we want to change this to something a little more descriptive: Select Project | Preferences from the main menu to open the Preferences screen. Then check the Sort filenames by extension checkbox and click OK. Click on the EMAILER.EXE file (or any other .EXE file that is in your project).



5 The final step is to build the disk set. We do this by selecting Build | Create Master Disk Set from the main menu. This will start the disk building process. When we get to the Setup Factory Disk Builder screen, we simply click the Output button to accept the defaults and continue to build the disk set to floppies. After the build is complete, you can try out your disk set.



6 Have a look at your first disk and run the setup program. There we go – one finished install program. Now you can supply it to all your customers or friends, and know that they can use it easily and quickly.



text with great effects such as shadowing and much more.

Look before you leap

Although the program is easy-to-use, you should always think out your installation before you start to create your project. The ultimate goal of a good installation program is to get your software on to the user's system in an easy and accurate manner.

Although Setup Factory ensures both you and your users ease of use, the accuracy of the installation is largely up to you.

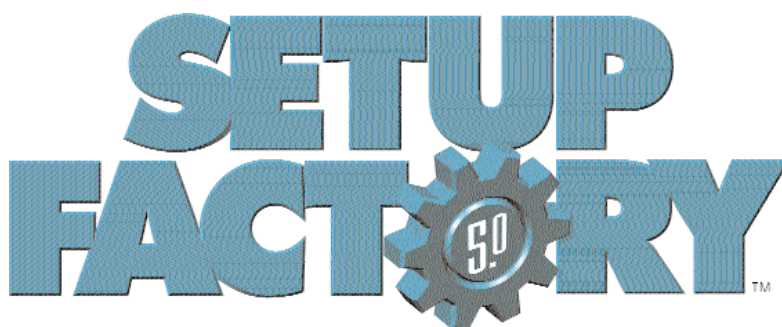
The best way to ensure an accurate installation is to have the software prepared in its finished state on your development system before you begin to create the installation. This way, you can test the program in that structure before creating the installation. Having the files and directories set up in such a manner ahead of time will also make the installation creation process much quicker and easier for you.

There are two basic types of files that you want to distribute: program files and dependency files. Program files generally include your executables, data files, help files or whatever your main software type happens to be.

Dependency files are support files that your program needs for proper operation. These may include INI files, DLLs, VBX files, ActiveX (OCX) files or any other support file type. Support files are sometimes installed to locations other than the location of the program files such as the Windows or system directories.

It's all about planning: as long as you bear these important but simple facts in mind, creating your ideal install program using Setup Factory will be easy – and it's bound to become an indispensable tool to programmers and enthusiasts alike. **PCP**

PC Plus upgrade offer



Upgrade for £64

What bugs you the most about your installation builder? Is it so bloated you need a sledgehammer to make it fit? Setup Factory 5.0 creates compact, bulletproof, professional installations for deployment via diskette, CD-ROM and the Internet. And, best of all, it does it from within our innovative visual design environment. While others have tried to imitate it, only Setup Factory 5.0 offers such a perfect combination of ease, flexibility and control.

Upgraders need to go to
www.indigorose.com/setup/upgrade.html



NUMBER ONE FOR LINUX!

Installing SuSE Linux 6.4:

It's the most comprehensive Linux distribution ever – here's how to get it all installed

1,500
PROGRAMS!

Every Linux distribution has its own particular strengths. SuSE's version is undoubtedly its completeness. Where most manufacturers ship you a couple of CDs – typically one for the actual installation and the other with the program source files – SuSE comes on 6 regular CDs or a single 4.4GB DVD.

What takes up all the room? Now's your chance to find out, with the latest SuSE Linux! You'll find over 1,500 programs on our DVD – an absolutely encyclopaedic selection including KDE 1.1.2, StarOffice 5.1a, the latest Xfree86 (3.3.6), popular image manipulation packages such as Gimp and the blender, CD and MP3 players plus all the database and development tools people have come to expect from a regular distributions.

One word of warning: tempting as it is to hit the 'Almost everything' button when asked what to install, you'll need 9GB of space on your hard disk and 5 or 6 hours while SuSE's installer, YaST,

fills it up!

But don't worry – the default installation gives you an excellent selection of software, and you can always add more later.

Before you start

Installing a new operating system isn't like installing a program. SuSE's graphical installer, YaST2, takes much of the pain out of the job. But please read the Install Guide, (DOCS\Book-en.pdf on the DVD) before beginning and make a backup of all your important data – it's easy to make a mistake and wreck your system.

SuSE Linux needs its own partition on your hard drive. If, like most people, your entire hard drive is taken up with your C:\ drive you'll need to shrink this to make space for Linux. There are a few tools available to accomplish this. In the DOSUTILS folder on the DVD you'll find FIPS, a MS-DOS utility that can resize FAT and FAT32 partitions. Be

WALK THROUGH

How to install SuSE Linux

SuSE's setup tool, YaST2, makes installing Linux easy.

Once you've freed up some space on your drive just follow these easy steps



1 Start your installation by booting from the DVD (or floppy – see the main article). After a welcome screen YaST checks your system, then prompts you for the language you'd like to use. Throughout the installation the left pane contains useful help. If you need to use the text-based installer, click 'Quit YaST2' at this point. Otherwise choose your language and click Next.



2 YaST should automatically detect your mouse. If it doesn't you'll be prompted to enter it manually. Next choose your keyboard layout and timezone. Try typing a few characters, like 'Z', '@' and 'E' to make sure your keyboard is configured correctly. In the next screen you'll be prompted to select a 'New installation' or 'Update'. Unless you've already got Linux installed, select 'New'.



3 Next you'll see a list of the hard drives on your computer. If you need to set up special partitions (such as '/boot'), choose 'Custom partitioning' and refer to section 10.1 of the manual. Otherwise let YaST do the work. You'll get a screen showing the existing partitions on that drive. Select the ones you will delete to make room for SuSE. Remember: all the data on them will be lost! You should give SuSE at least 1GB of hard drive space.



FULL PRODUCT



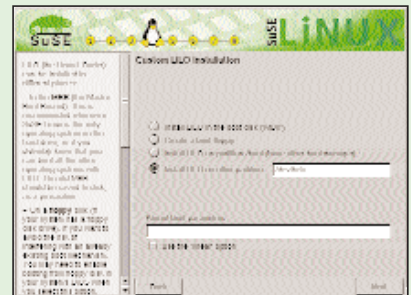
WALK THROUGH CONTINUED



4 If this is your first time installing Linux, choose the Default software selection on the next screen. This gives you a good range of software to try out, and you can always install more from the DVD later. 'Almost everything' requires about 9GB of space and takes nearly 6 hours! If you're an old hand, go into the 'Detailed selection' to pick the exact packages you want.



5 A small program called LILO (Linux Loader) starts Linux. YaST is cautious: if it finds another operating system like Windows on your system it offers to put LILO on a floppy rather than your hard drive. This is safe, but it does mean you must use that floppy every time you want to start Linux. You can change LILO later so it gives you the choice of which OS to boot at startup...



6 ...or you can click 'Custom LILO installation' and do it right away. Most of the time you install LILO on the boot disk MBR (Master Boot Record). But if you're running Windows NT/2000, or are using another boot manager such as Ranish or PowerQuest's, it should be installed on the '/boot' partition. Experts can also enter Kernel boot parameters: 'mem=128M' will force Linux to see 128MB of RAM if it's not detected automatically.



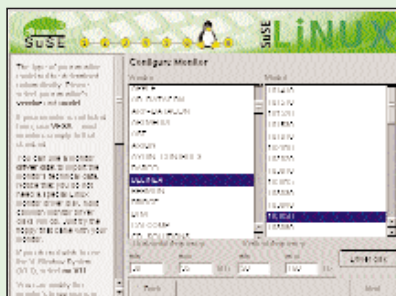
7 Next you set up a user for yourself so you can log in. Users can only modify their own files, making it hard for them to mess up the entire system. The first and last name fields are not important, but remember your login and password for later! If there are other people using your computer you can add them later, and even change your own permissions if you need a higher level of access.



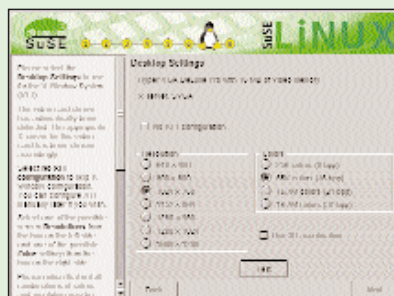
8 'Root' is a special user. Logged in with username 'root' you have access to your entire system. You can set passwords for any other user, install software, reconfigure peripherals or delete every file on your system. Powerful, but dangerous. Only log in as root when you've got some serious administrative tasks ahead. And don't forget root's password! SuSE will prompt you for it if you try to run a program that needs root permissions.



9 Before going ahead with the installation YaST tells you what it will do. Click next and go make a cup of tea while the installation proceeds – watching the progress bar is tedious. Once it's installed a base system, YaST restarts – you'll see a lot of text scroll past, and a few remaining packages will be installed. YaST should autodetect your monitor and graphics card. But if it doesn't, you'll see the following screen...



10 YaST knows the setting for a wide range of monitors – look through the list for yours. It has another clever feature, too – if you have the Windows driver floppy, it can get the data it needs from that. Otherwise check your monitor's manual (or the manufacturer's Web site) for the horizontal and vertical frequency ranges. Don't just guess – you could damage your hardware. See section 27 of the manual, 'If all else fails'.



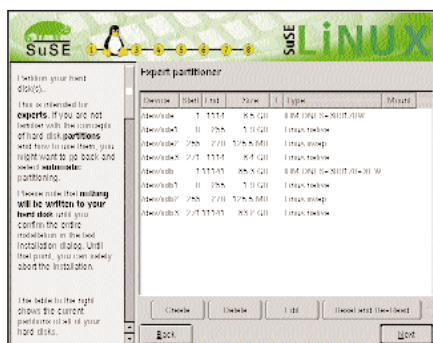
11 Almost there! Choose your screen resolution and colour depth in the next screen – if some are unavailable, it is because your card does not support them. Clicking 'No X11 configuration' will limit SuSE to text-only: useful if you're having problems. Clicking Next takes you to a test screen. Finally you can configure your printer, sound or Internet. If this is your first Linux installation, leave these for later.



12 SuSE starts up the moment you click 'Finish installation', giving you a login screen. Enter your username and password and click the 'Go!' button. Then start exploring. So long as you're not logged in as root, there's not too much damage you can do. To shutdown, click on the 'K' menu (same place as Windows's Start button) and select Logout. You'll be taken back to the login screen, where you can choose 'Shutdown'. Have fun!



NUMBER ONE FOR LINUX!



Get finer control of your partitions using YaST's custom partitioning tool.

sure to read the accompanying documentation before you start.

There are several commercial packages such as Partition Magic or System Commander that enable you to resize your Windows partitions. The Ranish Partition Manager does exactly the same task and is freeware. See *On the Web* for more details.

Quite how you decide to arrange your partitions is a matter of constant debate. If this is your first Linux installation, however, we'd recommend at least two partitions: one twice the size of your RAM (or 128MB if you've more than 64MB RAM) and another at least 1GB for a default install.

If your drive is larger than 8MB, you may well need a "/boot" partition of around 12MB close to the beginning of your drive. It's also a good idea to create a separate "/home" partition. This is where your data is stored – if you give it space of its own, you can safely upgrade your system without losing it.

Before you start, collect some information about your computer, just in case the installer doesn't recognise all your hardware. Know what kind of mouse, graphics card, monitor printer and modem you are using.

Starting the install

The SuSE Linux DVD is bootable. If your system is set up to boot from DVD you can simply restart with the DVD in the drive and the installation will start. If it doesn't, check your computer's BIOS settings – normally accessible by hitting F2 or DEL while your computer starts.

Every BIOS hides the 'boot sequence' in a different place. If you're using PhoenixBIOS, you should find a 'Boot' menu selection that enables you to make the changes. If your computer uses AwardBIOS, look under 'BIOS Features Setup'. Other BIOSes put them under 'Advanced CMOS Setup'. Make sure CD-ROM is listed first, then floppy, then hard drive.

Older computers may not support booting straight from CD-ROM. If this is the case, or if you don't feel like messing with your computer's BIOS, create a boot floppy. A DOS utility, rawrite, does the job.

Get a blank, formatted floppy disk, open a MS-DOS Prompt and run D:\DOSUTILS\RAWRITE\RAWRITE, where 'D' is the letter of your CD-ROM drive. It will prompt you for an image to use – enter D:\DISKS\BOOTDISK and follow the prompts. Once Rawrite has done its work, reboot your computer with the floppy in your drive.

As well as the standard boot image, there are a

number of other disk images that may be useful in the DISKS directory. Open the 'Readme' file in any text editor to find out more.

YaST2

YaST stands for Yet Another Setup Tool. A rather self-deprecating name, considering the great job it does detecting most hardware, and installing SuSE Linux. If you've installed Linux before you'll find it easy to use. If not, take a look at the walkthrough to see what to expect.

You'll be prompted to enter your language (SuSE is fully international, so comes with many choices) and time zone.

YaST2 detected all the hardware correctly on most of our test machines, but if you have a laptop or are running some esoteric graphics card it sometimes runs into trouble. The older text-based YaST1 is available and provides far greater control over the installation process – but reading the manual is a must.

There are also one or two quirks in the installation. Nothing serious, but when we were setting up our Dell Inspiron laptop, we couldn't configure X Windows immediately. When the text-based console started after installation, we found it too dimmed to read. Nothing that typing 'shutdown now' couldn't cure.

Wilkommen

When you visit its Web site, SuSE's German heritage is immediately obvious. The tradition of excellent engineering continues throughout its products, too. And just once or twice, such as when you install StarOffice, you'll find it a little less subtle: all the prompts during the installation are in German.

Our language skills are shameful, but eventually we worked out that clicking 'Ja' repeatedly installed the software just fine.

Have fun

Linux is a comprehensive, powerful operating system. If you're a newbie, it can be a little daunting. There's a whole mass of new things to learn.

Get to know SuSE's help system – it's the best we've seen in a distribution. You'll also be spending quite some time on-line, digging around Web pages and asking questions in newsgroups. Don't worry – the natives are generally friendly. And you'll quickly pick up the basic skills.

SuSE's login screen sums it up, urging you to 'Have fun'.

Matt Kynaston

ON THE WEB

Find out more on-line

There's far more to learn about Linux than we have room for here. Get started with these Web sites...

www.suse.de/uk/

SuSE's UK site. Check here for supported hardware, news and SuSE's excellent support database.

www.cs.utexas.edu/users/kharker/linux-laptop/

The Linux on Laptops home page. Laptop computers present unique challenges for operating systems. Start here for tips on installing Linux on yours.

www.linmodems.org

Why doesn't your modem work? If it's internal, the chances are it's a 'Winmodem'. Find out more about these beasts here.

www.lester.co.uk/ranish/part/

The Ranish Partition Manager is a free partition resizing tool and boot manager. The Web site contains excellent background material – read thoroughly before using!

www.powerquest.com

Don't trust free software to partition your drive? PowerQuest make the excellent Partition Magic – just the tool for chopping up drives.

www.pcplus.co.uk

Check our Web site for important updates to our SuperDiscs, news and our Linux forums, where you can read advice from other readers.

www.linuxdoc.org

The Linux Documentation Project. Thousands of pages of Howtos and guides, often more info that you need! Be sure to check the date on the article you're reading.

IMPORTANT!

Unfortunately, SuSE cannot offer support for this edition of SuSE Linux. If you run into problems, please be sure you've read all the documentation and visited SuSE's on-line knowledge-base at www.suse.de/uk. PC Plus also hosts an active Linux forum where you can post questions – see our Web site at www.pcplus.co.uk, and has articles available on www.pcplus.co.uk/discs.

**FULL PRODUCT**

PERSONNEL MANAGEMENT SOFTWARE

Exclaim

How much is inefficient expense management costing your organisation? Let Exclaim from Propath Software help you out

According to an American Express travel and expense management process study of 1997, "employee's expenses represent the third largest controllable cost to businesses." Many UK organisations have inefficient, outdated expense claim procedures – in most cases, the claim system consists of little more than a mountain of receipts and manual paperwork, shuffled and passed around various people and departments. It will come as no surprise that this method of expense processing is far from cost effective, accurate or efficient.

Exclaim expense management is software that has been developed to take full advantage of the advances in information technology such as e-mail, mobile computing and Intranets, in order to revolutionise the way you prepare, submit, authorise, process and pay your expenses.

To help you on your way

The entire manual for this product is available on the disk itself. Look in the folder Full/Exclaim to find it. You will need Acrobat Reader installed to be able to view this file.

To start Exclaim, double-click on the Exclaim Client icon on your desktop or highlight the icon and press Enter. You will be presented with a dual purpose logging-on screen as a New User, or as an Existing User. If you are a first time user, a wizard will guide you through the set up process. After setting yourself up as a New User in Exclaim Client, set your User Preferences. With the Existing Claims screen showing, select User Preferences menu from the toolbar.

Three options

The three preferences are Claim Submit options, Credit Card Vendors and Default Expenses Recharge.

The Claim Submit options allow you to decide how you will be submitting your claims – either by e-mail, exporting to a disk or by printing the claim.

The second option allows you to set up corporate credit card details. If no credit cards are used, tick the No Credit Cards check box.

The third option enables you to set your expenses to be recharged to a customer. This would be feasible if, for example, you are a trainer and all your incurred expenses are on behalf of a customer. Setting these user preferences determines which screens you will see later on when using the system. When you press the Login button, you will be presented with the main menu screen.

This is quite a complex package so be sure to check out the user manual if you need further help.

Paul Ravening

Manage your expenses easily with Exclaim.



Simply Personnel Professional

FULL PRODUCT WORTH £175

Personnel Management made easy

Simply Personnel Professional is a personnel management package which provides a comprehensive range of records which ensure that a company can record everything from basic employee details to competencies and salary histories. Simply Personnel Professional is designed to suit any company, whatever its size and whatever industry it is in. A powerful screen designer, for example, enables the user to customise the screens, adding and deleting fields and labels as required. This ensures that the system records the data you want to record, how you want to record it.

Simply Personnel Professional provides a wide range of standard reports from the comprehensive Management Report, which provides full details including starters, leavers, age profiles and training provided or planned, to skills matching, absence, holiday and salary reports.

Simply Personnel Professional, which can be enhanced with the addition of Simply Training and Simply Recruitment Professional, can be upgraded to an unlimited employee records license and, if required, multi-user license. This means that with a simple upgrade, Simply Personnel Professional can replace your current personnel management system, whether it is computer or file based.

Paul Ravening



Handle your personnel problems with ease.

PC Plus upgrade offer

Upgrade your free Simply Personnel Professional software

- Upgrade to Simply Personnel Professional unlimited employee records, single-user: £399
- Upgrade to Simply Personnel Professional unlimited employee records, multi-user: £999
- Upgrade to Simply Personnel Professional bundle unlimited employee records, single-user: £749*
- Upgrade to Simply Personnel Professional bundle unlimited employee records, multi-user: £1,999*

*includes Simply Personnel Professional, Simply Training Professional and Simply Recruitment Professional

All you need to do is fax an order to Propath Solutions on 0113 255 4690. All purchases have a 14-day money back guarantee if you are not completely happy. Excludes shipping and assumes software is undamaged.

For individual prices for Simply Training and Simply Recruitment please call 0113 255 4115



FULL PRODUCT



JBUILDER 3 STANDARD

Everything you need to program in Java!

Java is a natural language for programming the Internet and **JBuilder 3** is a natural tool for writing it. Take your first steps with Ian Sharpe



ON OUR SUPERDISC

Learning Java!

Fancy learning Java but don't know where to start? Fear not because we've included a full collection of previous Java tutorials, freshly plucked from past pages of *PC Plus*. Just look in the Features section of the SuperDisc. You'll need an Acrobat reader to open the relevant PDF files but we've included that software on the discs too. Good luck – happy Java building.

Note:

To run the JBuilder software, please enter the following code when prompted:

200-0004577

Anybody who reads David Griffiths' *Java Workshops* can't fail to be impressed by how much he achieves in a two page article. Whether he's writing a server or an eye-popping graphical applet, each month David manages to demonstrate just what light work Java makes of Internet programming.

Borland JBuilder 3 Standard is a very capable Java development environment. With a little guidance from us you will have your first program running within a few minutes of installation.

The first time you run JBuilder it opens a special project designed to teach you about the system. This includes tutorials on building your first Java applications. If you're new to Java, we recommend that you study these after reading this article. Although the Borland file is quick and easy, it is based on an application. You are probably more interested in how to get an applet on to a Web page, so that's what we're going to show you.

Create an applet

Close the Welcome project; you can retrieve it later from the Help menu. Start a new applet from File / New. Double-click the Applet icon to start the New Project Wizard. Change the last two items in the file path to \FirstApplet\FirstApplet.jpr and fill

in the title field with 'My First Applet'. Leave the other fields unchanged on this occasion. Click the Finish button. Next, the Applet wizard runs.

Check the box 'Generate header comments' but uncheck the other three. There is nothing else pressing to do here, but click the Next button to see what the other dialogs offer. You will need these when you start to produce applets for external consumption. The applet's width and height are set further on in the Wizard, for example. Click Finish and JBuilder will generate all the files needed for your project.

The Project window may seem a little confusing at first. On the upper left is a pane showing the project's constituent files. Applet1.java is the source code. FirstApplet.html is the page of notes you see on the right. FirstApplet.Applet1.html contains just enough HTML to host your applet, and will be used as a test page.

Click on Applet1.java and the pane beneath will outline the source code JBuilder has generated for you. The code itself is on the right. Click items in the navigation pane to quickly jump around.

We're now going to paint a user interface for our applet, so click the Design tab at the bottom of the window. In the component palette click the AWT tab. AWT is the Abstract Windowing Toolkit, a



FULL PRODUCT

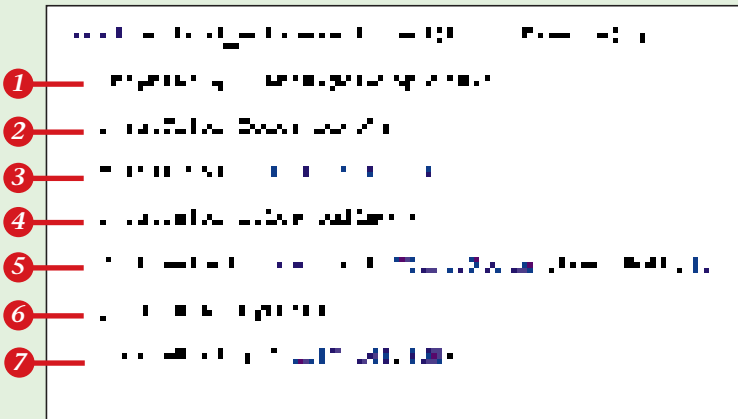


GETTING STARTED

How to create Java graphics for your Web site

Wondering how to begin programming graphical applets? Here's a nudge in the right direction

Java can do much more than create whiz-bang visuals for your Web site, but they're a fun way to start. Take your first step by removing the label from the design we created in the main text. Go to the button's event handler and replace the line of code you added earlier with the ones shown here. Don't forget that Java is case sensitive and can't live without its semi-colons. When you run the applet now you should see yellow text on a blue oval. This isn't the fully story on Java graphics, of course. Next you should find out how to modify the applet so that the graphic is repainted when another window covers and uncovers it. Hint – investigate the `paint()` and `repaint()` methods.



This is what the applet looks like when you press the button.

1 To draw on the applet's canvas we must get a handle on the Graphics object associated with it. The applet (which is referenced by 'this') has a `getGraphics` method which returns a reference to its Graphics object.

2 Now we can use the object's methods and properties. The `setColor` method changes the drawing colour to `Color.blue` – a constant defined in the AWT.

3 This method draws a filled oval in the current colour. The parameters are the x, y location, then the width and height.

4 If you decide that you don't want to use the default font then you must create a new one. A new instance of the Font class requires a typeface, style (`Font.BOLD` is a constant) and point size in order to initialise itself.

5 The Graphics object is told to use the newly created font by means of its `setFont` method.

6 Changes the drawing colour to yellow.

7 Finally we plant a message inside the oval at co-ordinates (165,165).



If the editor's formatting doesn't match your coding style, change it from Tool / Environment Options.

basic library of user interface components.

Place a button near the bottom of the panel and a label near the top. Double-click the button to bring up its event handler and add this line:

```
label1.setText("Hi!");
```

Java is case sensitive, so watch out. It is lower case l, lower case s, upper-case T. And don't miss

JBuilder 3 Standard is a very capable Java development environment... with our guidance you'll have your first program running **within minutes**

the semi-colon. That's enough graft. Run your project with the [F9] key, or by pressing the green right arrow button in the toolbar. Accept the JDK license agreement if this is your first run. You should see your applet running. Pressing the button changes the label text. Close the window.

Applets on the Web

Now, how do you get this on to a Web page? Open Windows Explorer and navigate to the myclasses folder in your JBuilder installation. This is where the output files are generated. The HTML test file is there, along with a FirstApplet folder containing the class file (which is the actual applet) and some other gubbins. Double-clicking the HTML file should open it in your browser, displaying a rectangle where the applet should

be... but no applet. To remedy this, you should close the browser and go back to JBuilder. On the Wizards menu select Deployment Wizard. Here we are able to package up the files necessary to distribute the applet into a single compressed archive called a JAR. Go for the compressed JAR option and change the name from Untitled1.jar to firstapp.jar. Then click Finish.

Back in the myclasses folder, the JAR file will have appeared. Open the HTML file in Notepad and add this after the CODEBASE line:

```
ARCHIVE="firstapp.jar"
```

Some browsers are picky about filenames so stick to lower case. Save the file, double-click again. Your applet should appear in all its glory. **PCP**



FULL PRODUCT



INTERNET & APPLICATIONS PROGRAMMING

Get up to speed with C++ Builder 4.0 Pro

So you liked C++ Builder 4 Standard Edition? This time round, **Dave Jewell** introduces you to its big brother, C++ Builder Professional Edition which you can find on this month's DVD



Lucky, or what? It's only a couple of months since we were treated to C++ Builder Standard Edition, and now Borland have favoured us with a copy of the Professional Edition.

But wait – you've only just started getting comfortable with Standard Edition, so why should you go to the trouble of wiping it off your hard disk and installing the Pro Edition? Well, the Standard Edition is a great C++ development system but somewhat lacking in the database and Internet tools departments. It doesn't give you any data-access or Web-related components, and it's for this reason that we've been making use of freebie goodies such as the WinShoes Internet components in the *C++ Workshop* – see page 199.

Well, the really great news is that C++ Builder 4.0 Professional Edition comes with a whole raft of Internet and data-access components, ready to just drop into your own applications. Because we've only recently looked at the Standard Edition, this introduction will concentrate on these new features.

Installation

As before, we'd strongly suggest that you remove any existing C++ Builder installation before loading version 4.0 Professional on to your hard disk. It is possible to have C++ Builder version 3.0 and 4.0 'cohabit' on the same PC, installing them into different directories but, if you do so, you must follow the golden rule of installing the most recent development system last. The 4.0 Professional Edition requires around 140MB disk space, and you need to bear in mind that this is just for C++

Builder itself. In addition, the installer program will want to install the BDE (Borland Database Engine) as well as InterBase; all in all, you'll need at least 175MB of disk space and Borland recommend 300MB for a full installation.

Before leaving installation issues, remember that the BDE and InterBase are shared components. In other words, they can be potentially shared with other Borland development systems such as Delphi 4, Delphi 5, C++ Builder 5.0 and so on. What this means is that you're free to put C++ Builder 4.0 itself in any directory you choose, but you'd be wise to accept the suggested directory assignments for the shared components. That way, these shared components will be easier to locate and upgrade when installing multiple development tools on to your PC.

So what's new?

If you've been following *C++ Workshop*, you'll know that we've spent a while working with the WinShoes internet components, all of which are free and come with full source code. On the Internet page of the component palette in C++ Builder Professional, you'll see no fewer than 21 new components, all of which relate to Internet access. So now we're spoilt for choice – should we use the ones provided with C++ Builder, or stick with WinShoes? To be honest, it really depends on how much you like to dabble with the internals; if you'd feel more comfortable with the source code, then stick with WinShoes. On the other hand, if you want an 'all-in-one' solution which doesn't require any third party components,

TOP TIP

Save some space!

There's a lot of content here...

Borland used a number of ingenious techniques to maximise the speed and productivity of C++ Builder. In particular, the development system uses a special incremental linker which greatly reduces the time required to create the EXE file. However, a side effect of the incremental linker is the enormous linker-state files which it produces. In the same way, a debug information file is created during normal operation.

You needn't worry about these files during ordinary programming, but you should be sure to delete them before moving on to a new project. Why? Because they're enormous! Try building the sample program which you can find in the `EXAMPLES\BTASKS\BDEMO` directory. This will leave you with four linker-state and debug information files, with file extensions of .ILC, .ILF, .ILS and .TDS. Total size of these files? Around 15MB! Yes, really!

If you compile all the sample projects that Borland supplies, you'll soon find that these extra files take up more disk space than C++ Builder itself. So take a tip from us, and be sure to watch for and delete these mammoth files when you've finished with a particular project.



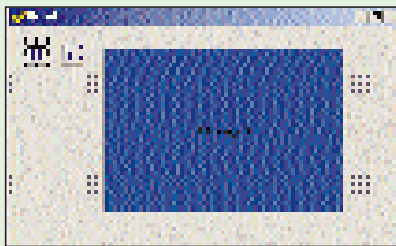
FULL PRODUCT



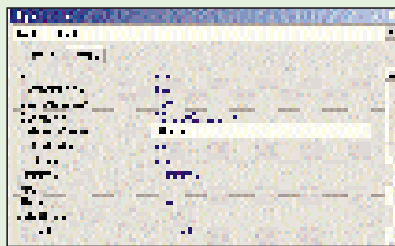
GETTING STARTED

Now you can easily work with databases!

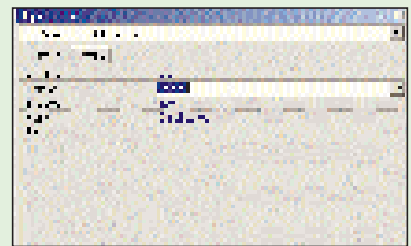
Six steps to recordset rapture...



1 First step in working with an existing database is to drop a TTable component, a TDataSource component and a TDBImage component on to an empty form in a new application. Here, we've also set the Color property of the TDBImage component to something a little more colourful...



2 The next job is to set the DatabaseName property of TTable component so as to refer to the database we're interested in; in this case, it's called DBDEMOS, which is automatically set up when you installed C++ Builder Professional 4.0. You can then set the component's TableName property to BIOLIFE.DB.



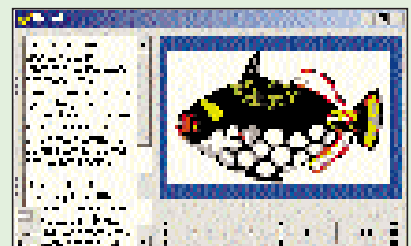
3 Set the Active property of the TTable component to True. At this point, we've got a live connection to the database. While you're at it, select the TDataSource component and set its DataSet component to 'point' at the TTable control. The TDataSource is responsible for 'dishing up the data' to any data controls on the form.



4 Now for the exciting bit! Select the TDBImage component and set its DataSource property to reference the TDataSource component. Finally, we need to tell C++ Builder which field we want to display. Choose 'Graphic' in the component's DataField property. Got it right? You should now see this fishy-looking bitmap...



5 In exactly the same way, you can add more data controls to your form, showing other fields in the record. Here, we've added a TDBRichEdit control, which is displaying the content of the 'Notes' field. Just drop it on the form, set up its DataSource property, and choose Notes in the DataField property. Easy peasy....



6 Last, to make it easy for the user to navigate through the dataset, add a TDBNavigator component and set its DataSource property as before. Notice that the First and Previous buttons automatically dim out to indicate that we're at the beginning of the dataset. You can use the VisibleButtons property to determine which buttons are actually visible to the user.

then use what comes with C++ Builder Pro.

Strictly speaking, those Internet controls are third party components. They weren't actually developed by Borland, but by another outfit called NetMasters. If you want to check out the NetMasters Web site and download any updates, you can find it at www.netmastersllc.com. However, unlike the WinShoes people, these guys do charge real money for source code!

In addition to the Internet controls, C++ Builder 4.0 Professional also includes a rich set of components for database work. You can find them on the Data Access and Data Controls page of the component palette. So what's the difference between the two? You can think of the data access

components as a 'channel' that link your C++ Builder program to a particular database. The data controls, on the other hand, are responsible for displaying the actual data, whether it's simple ASCII text, formatted text, an image bitmap or whatever.

To get the best from these components, you'll need to have a reasonable understanding of database concepts such as tables, recordsets and so forth. To make things a little easier a number of 'demo' databases are automatically loaded on to your PC when you install C++ Builder 4.0 Professional. To see how easy it is to work with data in this way, try working your way through the six part tutorial that accompanies this introduction. If you make a mistake, don't panic because the full

source code is included on the cover disk. (Note: You won't be able to run the included EXE file until you've installed C++ Builder.)

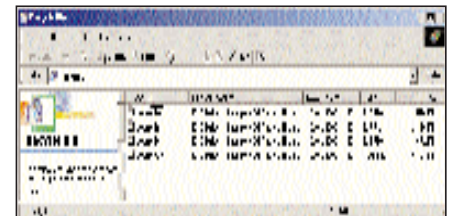
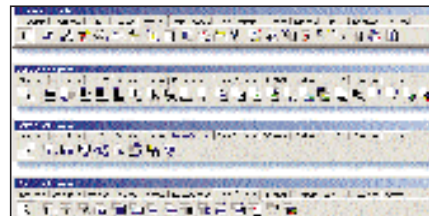
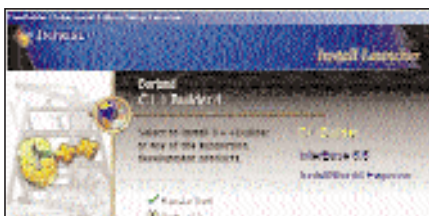
Though space doesn't permit a detailed discussion here, you'll also see that C++ Builder 4.0 includes a powerful and comprehensive set of reporting tools called QuickReport. You can use these tools to lay out a report just as easily as if you were designing a form. C++ Builder includes the Standard edition of QuickReport, but you can get more details on QuickReport Professional from the official QuickReport Web site at www.qusoft.com. Have fun, and happy programming with C++ Builder 4.0 Professional Edition!

Dave Jewell

Be warned that the Professional version of Borland C++ Builder 4 requires up to 300MB of hard disk space, depending on the specific options that you choose. Be sure to remove the Standard edition first.

Here's what you get with Borland C++ 4.0 Professional – at least 67 more reusable controls than was the case with the Standard Edition, and all free on this month's SuperDisc!

C++ Builder can use up your free disk space like it's going out of fashion. Take care to put those redundant incremental linker and debug information files where they belong – in the Recycle Bin!





FULL PRODUCT



Borland JBuilder 3.5 Professional

Borland JBuilder upgrade order form

TEL: 01458 271135

- ☐ **JBuilder 3.5 Professional**
£299 (inc. VAT and UK P&P) Code PCCJB35P
Includes documentation and rights to deploy
- ☐ **JBuilder 3.0 Professional**
£199 (inc. VAT and UK P&P) Code PCCJB3P
Includes documentation and rights to deploy
- ☐ **JBuilder 3.0 Standard**
£99 (inc. VAT and UK P&P) Code PCCJB3S
Includes documentation and rights to deploy

For more details on JBuilder 3.5 Professional, JBuilder 3.0 Professional, JBuilder 3.0 Standard and other products, see the Borland Web site at www.borland.com

Title Initials.....Surname

Organisation

Your address

Town.....

County.....Postcode

Telephone number

Fax number.....

E-mail address.....

Date.....

Amount £

(overseas readers please see below for postage charges)

Method of payment (please tick one)

☐ VISA ☐ MASTERCARD ☐ CHEQUE (payable to Future Publishing Ltd. Sterling
cheques drawn on a UK account only)

☐ SWITCH Issue number/Valid date/.....

CARD NO:

Expiry date:.....Signature:

Pure Java. Visual Development

JBuilder 3.5 Professional is the most comprehensive set of award-winning, visual development tools for creating Pure Java, platform-independent business applications, applets, servlets, and JavaBeans for the Java 2 platform. Only JBuilder 3.5 Professional combines the ease of visual drag-and-drop Java 2 JFC/Swing/dbSwing development, the productivity of 250+ reusable JavaBeans with source, scalable database tools with complete JDBC connectivity. Plus, rapidly build Pure Java database applications using DataExpress and data-aware dbSwing JavaBeans. Visually create reusable DataModules with Data Modeler to speed database development. Work with the JDK of your choice using JDK Switching. JBuilder 3.5 Professional includes all the functionality included in JBuilder Foundation.

Only £299 including VAT and UK postage

List price £527 – save £228!

**SAVE
£228**

Borland JBuilder 3.0 Professional

Pure Java. Visual Database Development

Borland JBuilder 3.0 Professional is the most comprehensive set of award-winning visual development tools for creating Pure Java, platform-independent business applications, applets, servlets, and JavaBeans for the Java 2 platform.

Only £199 including VAT and UK postage

List price £299 – save £100!

**SAVE
£100**

Borland JBuilder 3.0 Standard

Pure Java. Visual Development

Borland JBuilder 3.0 Standard is the easiest visual development tool for creating Pure Java applets, applications, and JavaBeans for the Java 2 platform. Simplify development with the integrated AppBrowser, drag-and-drop Java 2 JFC/Swing JavaBeans, BeansExpress, BeanInsight, CodeInsight, and numerous wizards.

Only £99 including VAT and UK postage

List price £99

For more information about JBuilder, see the Borland/Inprise Web site at www.borland.com.



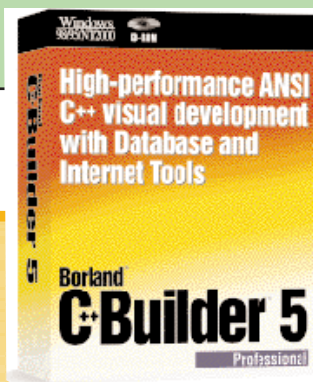
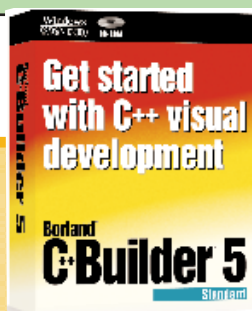
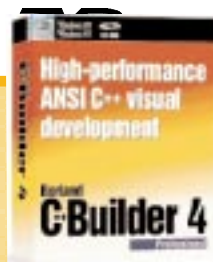
Now send this form and your payment to: PC Plus Reader Offer, Future Publishing, Freeport, (BS4900), Somerton, Somerset TA11 6BR. You do not need a stamp. Please allow 28 days for delivery. For orders in Europe please add £10 for P&P. Other overseas orders, please send £12 for P&P and this form and payment to: PC Plus Reader Offer, Future Publishing, Cary Court, Somerton, Somerset, TA11 6TB, UK.

EUROPEAN SUBSCRIBERS PLEASE QUOTE YOUR EU VAT REG. NUMBER

PCP165

**FULL PRODUCT**

&

**Borland C++Builder 4 Standard**

Complete boxed copy of the software included on this month's CD and DVD. Printed/on-line manuals, and the licence to deploy your applications included.

Only £39.99 including UK postage

Last list price £99 – save over £59!

INCLUDES manuals and licence to distribute applications

HALF
LIST PRICE

Borland C++Builder 4 Professional

True visual ANSI C++ development environment for building Windows client applications with next generation fully customisable AppBrowser IDE, integrated true two-way visual tools, CodeInsight, CodeBrowser, ClassExplorer, ClassCompetition, ParameterCompletion and much more.

Only £99 including UK postage

Last list price £527.58 – save over £420!

INCLUDES manuals and licence to distribute applications

SAVE
OVER £420!

C++Builder 5 Standard

C++Builder 5 Standard is the fastest and easiest way to learn to program in C++. It includes everything you need to start Windows programming in C++ today: a complete development environment and compiler with drag-and-drop visual programming; over 85 reusable components; numerous wizards; sample applications; and a complete C++ tutorial get you up and running quickly. Learn how to debug and deploy Windows applications, including applications that automate COM Objects such as MS Office automation components for Word, Excel, PowerPoint, and Outlook. Use CodeInsight Wizards to complete the code for you and Component Templates that enable you to create reusable components without writing a single line of code.

Only £79 including UK delivery

Latest version of C++Builder for under £80!

INCLUDES manuals and licence to distribute applications

NEW
VERSION

C++Builder 5 Professional

C++Builder 5 Professional combines the most powerful C++ Windows development environment for building desktop and database applications with native Internet components for building high throughput Web applications. C++Builder increases productivity and manages the entire development cycle with over 150 reusable components, the XML Based Project Manager and a true ANSI/ISO C++ high-speed 32-bit optimising compiler to deliver reliable applications to market faster.

C++Builder includes a professional IDE, WebBroker, Native Internet Components, InterBase Express and robust debugging tools. Use the CodeGuard run time error detection tool to easily locate and diagnose memory and resource leaks on the spot.

Only £239 including UK postage

List price £586.33 – save over £340!

INCLUDES manuals and licence to distribute applications

SAVE
£340

For more information, see the Borland/Inprise Web site at www.borland.co.uk

Borland C++Builder Upgrade Order Form

TEL: 01458 271135

For more details on C++Builder 4, 5 and other products, see the Borland Web site at www.borland.uk

- ☐ **C++Builder 4 Standard**
Includes documentation and rights to deploy
£39.99 (inc VAT and UK P&P) Code: PCCB4S
- ☐ **C++Builder 4 Professional**
Includes documentation and rights to deploy
£99 (inc VAT and UK P&P) Code: PCCB4P
- ☐ **C++Builder 5 Standard**
£79 (inc VAT and UK P&P) Code: PCCB5S
- ☐ **C++Builder 5 Professional**
£239 (inc VAT and UK P&P) Code: PCCB5P

Products available while stocks last. See below for overseas postage charges.

Title Initials.....Surname

Organisation

Your address

.....

Town.....

County Postcode

Telephone number

Fax number.....

E-mail address.....

Date.....

Amount £

(Overseas readers please see below for postage charges)

Method of payment (please tick one)

☐ VISA ☐ MASTERCARD ☐ CHEQUE (payable to Future Publishing Ltd. Sterling
cheques drawn on a UK account only)

☐ SWITCH Issue number/Valid date ____/____

CARD NO:

Expiry date:.....Signature:

Now send this form and your payment to: PC Plus Reader Offer, Future Publishing, Freepost, (BS4900), Somerton, Somerset TA11 6BR. You do not need a stamp. Please allow 28 days for delivery. For orders in Europe please add £10 for P&P. Other overseas orders, please send £12 for P&P and this form and payment to: PC Plus Reader Offer, Future Publishing, Cary Court, Somerton, Somerset, TA11 6TB, UK.
EUROPEAN SUBSCRIBERS PLEASE QUOTE YOUR EU VAT REG. NUMBER

SuSE – The Linux Experts

Want to know more?

Then come and visit us at the Linux Expo on June 1st & 2nd in Olympia (London) and ask the experts.

For more information and a list of our registered resellers, please visit: <http://www.suse.co.uk>



Support and Consulting

SuSE and their partners offer a comprehensive range of services, from online databases and installation support up to on-site development of an IT strategy.



Training

Our comprehensive training programme provides sound professional Linux know-how, which is offered at various levels in specific courses.



Hardware Expertise

SuSE works with established hardware partners. Applying certified hardware and compatibility tests, we guarantee you the basis for an optimal use of Linux.



3rd Party Software

We offer a wide range of commercial Linux applications, ranging from simple office packages through databases and standard business software, to back-up and e-commerce solutions.



SuSE Linux

We deliver the Linux promise. Apart from the actual operating system, we provide a multitude of application programmes and a practical user guide to aid with the successful use of SuSE Linux for everyone from IT professionals to home users.

The Linux Experts

SuSE Linux Ltd.

The Kinetic Centre - Theobald Street
Borehamwood - Herts. WD6 4PJ - UK
Tel: 0208 387 4088 - Fax: 0208 387 4090
info@suse.co.uk - www.suse.co.uk





FULL PRODUCT



FULL SOFTWARE, TRIAL SOFTWARE, TOOLS & UTILITIES

More software

Take a look below to see what else we've got to offer on the DVD this month. If you've got any suggestions for software for the SuperDiscs, be it full software or your favourite piece of freeware, e-mail me at paul.ravering@futurenet.co.uk.

BeOS 5

BeOS 5 is a complete operating system. Thanks to innovative new technology from Be, you can install BeOS 5 Personal Edition via a Web browser and store it as a file within Windows. No repartitioning is necessary, and launching BeOS 5 is as simple as double-clicking an icon on your desktop. Or you could choose it as the O/S of your choice. The decision is yours. There's plenty of software out there for this new O/S and PC Plus will be doing its best to bring you new versions as they come out.

Although no partitioning is required, we cannot guarantee that your computer will be happy with a 512MB continuous file being installed on its hard drive. Working with a new operating system can be great fun, so long as you don't get frustrated quickly when things don't go exactly as planned. For help with all things BeOS, why not visit the pcplus.beos forum on our Web site www.pcplus.co.uk.

Make sure you visit our pcplus.beos forum!

FULL PRODUCT

use location from which to install current and emerging Microsoft technologies and includes tools, headers, libs and sample code for these technologies. The Platform SDK is the successor to the Win32 SDK, and includes components that have been distributed separately in the Win32 SDK, the BackOffice SDK, the ActiveX/Internet Client SDK, and the DirectX SDK, and continues to integrate additional SDKs on a regular basis.

This edition provides the build environment, samples and information necessary to build applications for Windows 2000, while maintaining support for Windows NT version 4.0, Windows 98, Windows 95, BackOffice 4.0, and Internet Explorer version 3.x and 4.x. The Platform SDK maintains support for current versions of the operating systems. It is possible to build applications that will run on Windows NT version 3.51.



Experience current and emerging Microsoft technologies.



Find out what's on TV when you should be working.

Xitami

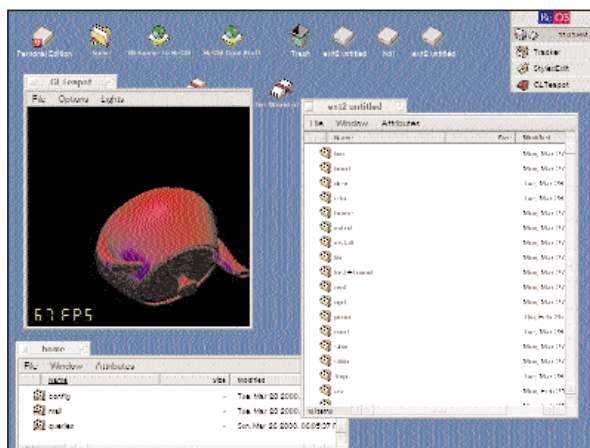
Xitami is a high-quality portable free Web server. It is distributed with source code according to a liberal License Agreement. We're including it on the CD and DVD this month to accompany Charlie Stross' Perl series in the magazine. But first you've got to install it.

The installation wizard will prompt you for an installation directory, and will build a program group and icons to run Xitami. To run the installation wizard without the iMatix logo display, pass is '-nologo' on the command line.

You can uninstall Xitami by double-clicking the Uninstall icon. Under Windows 95 and NT 4.x you can also select the 'Add/Remove Programs' option in the control panel. Xitami maintains various items in the Windows registry which the uninstall script will remove.

When you have installed Xitami, run it, then connect with any Web browser. You should see the 'Welcome To Xitami' test page. If Xitami cannot run on its normal port (80), it shows an error message: this can happen if another server is using port 80. You can use an alternative HTTP port such as 5080. You then connect using the URL

Use Xitami alongside our Perl Series. See page 205 for this month's tutorial.



Microsoft Platform Software Development Kit

The Microsoft Platform Software Development Kit (SDK) April 2000 edition provides developers with a single, easy-to-

FULL PRODUCT

DigiGuide

DigiGuide is a computerised version of the traditional old printed television guide. The main difference is that it appears on your computer screen, it is intelligent, it is constantly up to date, it provides more information on each programme and it suggests programmes that you might be interested in watching.

Long gone are the days of having to run down to the newsagent to find out what's on television, or scanning the pages to see which channel the latest *Star Trek* is appearing on.

Just start DigiGuide and let it do all that for you. At last, you can see at the click of a button what you are missing when you are forced to work late at the office.

TRY THIS!



FULL PRODUCT



<http://localhost:5080/>. You can also download the source package for Windows. This compiles under MSVC 4.x or 5.x, and is necessary if you want to extend the server using the WSX add-on protocol. To build from the source package, unzip it into a directory (for example c:\xitami\src) and double-click on the xitami.mdp file.

This launches MSVC. Click on the 'Build' button, wait until everything compiles, then click on 'Run'. Note that this source package contains the console (DOS box) version of Xitami.

If you use Win95, be aware that the earlier versions of this O/S can get into serious problems when heavily loaded with TCP/IP connections. While Win95 is adequate for testing and for small sites, we cannot really recommend it for serious sites – use NT or Linux. If you find that your Win95 system shows the classic 'Blue Screen of Death' when the server is heavily loaded, consider installing the various patches and upgrades that are supplied on the Microsoft site.



The R Files. Spooky goings on in the city of Bath.

Rants and Raves revisited

For those of you unfamiliar with the CD version of *Rants and Raves*, it was a very popular feature in *PC Plus* for a few years. Huw Collingbourne and his faithful sidekick Mary Branscombe, tackled subjects such as Christmas, cults, UFOs, and pop music.

Unfortunately, like all good things it came to an end. Being a relatively new boy in the history of *PC Plus*, it was only a few weeks ago that I came across these gems of entertainment, hidden on old *SuperCDs* in the depths of the office. And so, here on this month's DVD are a large chunk of *Rants and Raves* for your amusement and pleasure. If you like them, feel free to drop me a line on

Altogether now, Exterminate, Exterminate...



paul.ravening@futurenet.co.uk. As always, your feedback is gratefully received.

Undelete 2.0

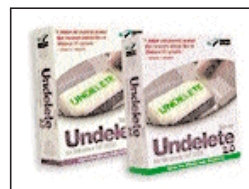
How many times have you permanently deleted a file, then needed it back? Personally, it happens to me every week. But now, there's an answer. Undelete 2.0 is your first line of data protection and immediate solution for recovering deleted files. Undelete for Windows NT/2000 gets back all your deleted files, not just the ones that land in the Windows NT/2000 Recycle Bin. Undelete easily captures file deletes from any program, on any drive, anywhere on your Windows NT/2000 Network! Undelete can recover versions lost because of system crashes or deleted files between backups. Available in Server and Workstation versions. Now accidentally deleted files can be located at a glance and recovered with a click of the mouse. Undelete Server installs on either Windows NT/2000 Server or Windows NT/2000 Workstation or Professional. In addition to providing file recovery on the machine it is installed on, it has the added functionality of allowing system administrators to connect to and run every other Undelete installed on all PCs on the entire NT/2000 network. System Administrators can remotely configure how they want all the other Undelete installations to behave and can remotely view and restore any files contained in any NT/2000 Recovery Bin on the network. This makes the System Administrator's job of supporting users a lot easier and faster!

Undelete for Windows NT/2000 CDs include 'Emergency Undelete', a separate version of the Undelete From Disk feature that runs from the CD. This utility scans NTFS or FAT partitions for files that have been deleted but are still recoverable. If you already know you need to undelete a file prior to the installation of Undelete for Windows NT/2000, you don't want to copy any programs onto the drive with the deleted file or you might unwittingly overwrite the file you're trying to recover. Emergency Undelete avoids that problem by running from the CD.

With Server and Workstation versions on your system, the fully network-enabled Recovery Bin (a special bin that captures all files that bypass the NT/2000 Recycle Bin) will even capture files deleted from File Manager, the Command Line and any application. Now it's easy to recover accidentally deleted files fast. If the file isn't in the Recovery Bin, a Systems Administrator can use Undelete to scan every drive on the system that

has Undelete installed and recover the file – right from their desk!

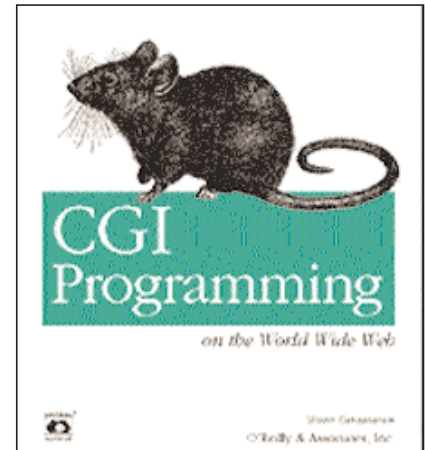
Undelete can also locate and undelete files that



Undelete 2.0 is your first line of data protection and immediate solution for recovering deleted files.

30-DAY TRIAL

aren't in the Recycle Bin by recovering them directly from any hard drive on the network, as long as that file hasn't been overwritten, all from the administrator's console. So all in all, it's a complete recovery system for all file losses, accidental or otherwise.



CGI made easy with O'Reilly.

CGI Programming

As you traverse the vast frontier of the World Wide Web, you will come across documents that make you wonder, "How did they do this?" These documents could consist of, among other things, forms that ask for feedback or registration information, imagemaps that allow you to click on various parts of the image, counters that display the number of users that accessed the document, and utilities that allow you to search databases for particular information. In most cases, you'll find that these effects were achieved using the Common Gateway Interface, commonly known as CGI.

One of the Internet's best-kept secrets is that CGI is astoundingly simple. That is, it's trivial in design, and anyone with an iota of programming experience can write rudimentary scripts that work. It's only when your needs are more demanding that you have to master the more complex workings of the Web. In a way, CGI is easy the same way cooking is easy: anyone can toast a muffin or poach an egg. It's only when you want a Hollandaise sauce that things start to get complicated. That's why, with our third book from O'Reilly, we can let you into all the secrets.

Patches & drivers

We also have a vast range of drivers and patches from Corel and Epson. We've the huge downloadable Service Packs for WordPerfect Office 2000 on the DVD for your updating pleasure. Then from Epson, all the drivers you could need to bring your Epson products into line with Windows 2000. Simply choose the product category you desire, such as printers, find the right model number and run the setup.exe located in the folder. It's as simple as that.

FREE BOOK!

100s OF FIXITS!