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Editorial

Well, version 4.0 Windows is now here, after a development phase of several years. The full release came through in time for November's One-Day Conference in Edinburgh. Since then, no doubt many of us have used the new version, although I suspect that the extremely resilient 3.2 will continue to be used by many for some time to come.

How does the new version look? We have a review article inside which gives first impressions. In some ways it is an impressive release, and shows real promise. However, there are also problems which really should have been spotted by SIR Pty. and cleared up prior to the commercial release. In particular, the data browser looks somewhat rough and ready, and seems unable to handle large records. In addition, as the review makes clear, some types of jobs take significantly longer to run compared with similar jobs running under 3.2 Extended Memory version. This may be connected to the memory requirements of the GUI interfaces, but all the same it is a problem which needs to be addressed. It would be healthy if these and other shortcomings could be addressed soon and 4.1 released as quickly as is practicable.

All users of SIR can help by using the new version and reporting to us their impressions, which we will pass on to SIR Pty. in Australia for their attention. This will help speedy resolution of the teething problems and enable a truly robust Windows product to be produced and marketed.

The issue also carries a review of the Edinburgh One-Day Conference, which was extremely interesting. We are already planning the next One-Day Conference in June this year, and there is the possibility that the 1999 International Conference will be held in Scotland.

Well, that's it for now. I hope you enjoy this issue of Reporter, as ever.

Michael Staley

E P O R T E R

Note from the Chair

Another successful conference behind us, we look forward to further fine examples this year.

With the November conference came the AGM and the associated committee changes. We saw the departure of a very long serving member (over 7 years) who has provided us with excellent help, including a period as treasurer. She has presented papers at several UK and International SIR conferences, all of which have been well received. Toni Moulin has been forced to leave the committee as she has left the BBC for a new job and will be using something called "Oracle" until she convinces them they would be better with SIR, when she might return to our fold. Toni will be missed by the rest of the committee for her contributions and friendship. Her place will be taken by two people sharing the work, Dave Greatorex and Lisa Zaninetti, both from the BBC. The other change involves Bill Powton and Barbara Stowe from DfEE who were joint members. Barbara is replaced by Jenny Simpson also from DfEE. Look out for some new ideas from these new members over the coming months. I would like to take this opportunity to thank those leaving the committee for their contributions and to give a warm welcome to the new members.

Version 4.0 for PC should be with you all now, you can now practice WDL'ing to your hearts content. The beta for Solaris , SCO and Linux are with beta-testers now and so some of us are busy trying to test it out . Making suggestions for enhancements, fixes and availability of features we have come to love. Like a batch system that runs without a terminal. I am sure SIR will do their best to satisfy us all in time.

Here's hoping we have another successful year of SIR usage.

Dave Doulton

Events

April 20-22	International SIR Conference in Florida
June 25	SIR Users Conference London

Users Conference June 25, London

Following the highly successful one-day conference in Edinburgh in November (***described elsewhere in this issue***), we have scheduled a one-day conference in London on Thursday 25 June. The day will be a combination of training, tips and tricks and user papers and be a great opportunity to meet other users.

The outline programme is given below. Speakers include Toni Moulin from TN/AGB (formerly a SIR user at the BBC) who will be comparing SIR and Oracle; and Dave Doulton on SIR API. We also hope to have papers on the ODBC interface and various web interfaces which are under development.

10.00	Coffee and Registration
10.30	Welcome
10.40	Keynote address
11.10	Training 1
11.40	User Papers
12.30	Forvus News
12.45	Lunch
13:45	User Papers
15.15	Tea/coffee
15.45	Training 2
16.30	Panel
16.50	Review/summary
17:00	Wine and Cheese

Review of SIR Version 4.0

Well, after years of development and acres of pre-publicity, the commercial release of SIR 4.0 for Windows has finally burst forth. A colleague and I installed it recently on our PCs, and here is my preview based on a few days experimentation. The package is 32-bit, designed to be run on Windows 95 and Windows NT. For those of us still on Windows 3.1 onwards, installation of the Win32S software (as used by, for instance, SPSS for Windows) will enable running. Installation of the package is of course done from within Windows,

and is simple and straightforward. A new feature is that it is now necessary to have a Licence number and a licence code; these are given to you by the distributors of the software, and are asked for not when you install the software, but the first time you use it.

The first thing to note is the change in database file names. Previously, a database called MICK would be held on MICK1.SIR, MICK2.SIR, etc. Version 4 looks for MICK.SR1, MICK.SR2, etc. Thus you need to rename your old database files accordingly. There is one other action which is advisable for Windows 3.1 users to do in advance - pointing to the appropriate HTML Help browser in the SIR.INI file which will have been installed in your C:\WINDOWS directory. It would have been simpler if this had been set up automatically as a system default during installation. However, using an editor, add to your SIR.INI file the following two lines:

```
[SirHelp]
htmlViewer=c:\sir40\help\bin\likse.exe %file
```

Then, a click on the DBMS icon and all systems are go. NB Users of Windows 95/NT do not need to edit SIR.INI before using SIR.

It is advisable in the first instance to go to the Help option, since all the documentation is now on-line. Conceptually this is great; practically, however, it takes a while to find your way around. Once you do, navigating around the Help facility is easy. One tip: after invoking Help, clicking on the Home button allows you to cascade through the levels. Head initially for the Environment section, and then the section on the INI file; this will show you how to alter things like screen size and font size. Again, allow yourself time to explore what is there. I do think that these initial familiarisation steps could with advantage have been set out in the overview booklet which comes with the package.

Opening an existing database, or creating a new one, is via the File menu, which asks for the path in the standard Windows fashion. One thing to note for a version 2 or 3 database is that existing families and members will have been deleted upon access by 4.0, and will need to be read in and compiled where needed; families will need to be recreated. With the demise of ICE, which has melted away to virtually nothing, this is best done by using the Procedures menu, choosing the File option, specifying the filename and clicking on the Edit button. Then, edited or not, it can then be saved in the appropriate family.

The Data menu includes a View Data option which browses the data. This is a lot more user friendly than the Sir File List which we have all known and not loved; about time, too. Data is presented across the screen, which is scrollable. The key

fields remain on screen as you scroll, which is good; missing values are shown as "Miss1", "Miss2", etc., which is more convenient than the former clutch of asterisks. However, on the downside, there is no Search facility for locating a specific record, and there are difficulties in displaying lengthy records. The Help facility for View Data is unhelpful, I'm afraid.

ICE (Interactive Command Environment), for so long the simplest way of reading and writing files, running jobs, sorting files, and much more, has simply gone. True, there is a limited subset of ICE commands still available, no doubt as a considered concession to us luddites. On the positive side, some of the utilities formerly available through ICE have been incorporated into DBMS. Doubtless these and other Windows utilities are deemed to replace ICE, but they are not as convenient. I miss it, and regret that SIR Pty did not consult their users about this. It is, though, a logical development given the menu-driven design of version 3.

When it comes to running jobs, there are several options available. Members can be run, or a file external to the database can be named and run. However, there is a good deal to be said about performance. We have run half-a-dozen or so jobs thus far, ranging from several retrieval update programs which create derived variables from raw data records, to adding records to the database. Our production version of SIR is the 3.2 PC Extended Memory, which is very fast. Version 4 has been slower on all jobs so far.

We ran four different retrievals which created derived variables. In three of these, the timings were the same for both versions. The fourth took nine minutes in 3.2, but fifteen minutes in version 4. The first three retrievals were relatively straightforward and involved few record types; the fourth was run on a different database which had more record types and called for a lot of cross-record checking and accumulation of counts. We tried two runs of adding records to the database, and in both cases the performance degradation was marked: one minute in 3.2 became 25 in 4.0, whilst in the other job four minutes in 3.2 became 45 minutes in 4.0! Both these jobs involved the recoding of Blaise missing values to SIR ones on data entry. These comparisons were made on the same machine. It would be interesting to know how much performance degradation is due to the GUI interfaces. Soon we shall be able to compare like with like, since there is a 4.0 PC Extended Memory (non-GUI) product in the wings, and this will be a truer comparison. On the face of it, though, the Windows product does not make as much memory available for production running.

An important feature of this version of SIR is Windows Design Language, or WDL. This is a machine-independent scripting language which

describes menus and dialogues, and its use is described in the on-line documentation. I have not tried using this; however, I know a man who has. Having seen two workshop demonstrations of its use in the last six months, at the London and Edinburgh 1997 User Conferences, its use seems straightforward and easy. WDL is a logical and useful development for a programming package in a Windows environment, where users may wish to develop suites of programs which need their own menus and dialogue boxes; its development is thus very welcome, therefore, and it is a strong feature.

There are other new features in SIR 4.0. The main user interface for SQL is a new menu system which offers standard functionality, avoiding the need for commands. There is something called API (Application Program Interface) which permits the passing of commands to (and output from) the SQL and DBMS modules without having to invoke those modules; this is a precursor to ODBC (Open DataBase Connectivity), which we should have within a year. There are some new commands in DBMS, formerly available under ICE. There are also some new functions: a progress function; FEQ (tests two floating-point numbers for equality; previously versions were feqless); no limits to the number of files attached in PQL; user-specified century assumptions to address the Year 2000 problem; a "no end-of-line" option on WRITE; and creation of an SPSS Windows system file.

What, then, is the verdict on my preliminary work with version 4.0 for Windows? It is that the version shows great promise, has some strong features, is developing along the right lines, but needs more attention. Reaction to 4.0 will be assessed and shortcomings addressed for version 4.1; thus, 4.1 will give us a truer picture. The current Windows product has a nice feel to it, and I am pleased that SIR Pty have come as far as they have; congratulations to them. Nevertheless, I hope that they will take note of the observations above, and I look forward to 4.1.

Michael Staley

We would be interested in hearing from anyone else who has experienced problems with their profile. This problem has not been reported by other users who have moved to version 4.0.

Kathy Brooks

Review of Users Conference on November 12 in Edinburgh

The first paper was from John Lemon, entitled "Don't throw out the Baby with the Bath Water". Though it sounds like an appeal to amnesiac mothers, the theme of this paper was that in the process of developing the product, some strong features of older versions of SIR were being lost, such as ICE. John stressed that his paper was not a Luddite response to change; there is concern that in the developmental drive, some functionality may be sacrificed in new releases, making it more difficult for existing systems to be ported to new releases. My reaction to this was that whilst John had over-egged the pudding, his major point was valid. The fact is that the developers do not operate the product in a commercial application environment, and they really ought to consult more before discarding useful things like ICE.

As if to address the fears expressed by John, the next paper was a demonstration of SIR 4.0 Windows, using the commercial release which had just been received at Forvus. Kathy Brooks gave an overview of the new features of 4.0, illustrated with on-line examples, and went on to deal with considerations of the commercial distribution of 4.0, the transition to it from version 3, and plans for the future development of SIR. These plans include Open DataBase Connectivity (ODBC for those hopelessly in love with acronyms), the direct exchange of data with other packages.

"Demons, Ghosts and other Nightmares", by Dave Greatorex, was the unanimous winner of the Fascinating Titles award (a worthy successor to "Mining at the Blaise-SIR interface" which turned up a few years ago). The BBC has developed a system providing users of audience data with a single GUI interface to the several SIR databases which hold this data, and they recently developed something similar for radio audience data. The user can now generate parameter files which analyse the data and feed the results into Word or Excel. This is a complex and interesting system, but easy to use from the users point of view.

Forvus News was given by Kathy Brooks, since the lugubrious Mr. Flack was unable to attend in person - why not a video link, Steve? - but had scripted the entire report, down to the usual natty one-liners which are so unforgettable. As ever,

Forvus are forging ahead, gaining new contracts, expanding their workforce, and being successful.

It was now time for the SIR UK User Group Annual General Meeting, a fifteen-minute conclave of the illuminati, squeezed in before lunch. Memo to Secretary: in future, minutes would be helpful.

The first paper after lunch was by Randy Banks, "ODBC - A Necessary Option for SIR". ODBC (see above for translation) is fast becoming the software norm, making it possible to integrate data from various packages, making life more convenient for analysis, comparison, etc. This paper was designed to explain what the standard actually is, how it works, and its benefits. SIR have undertaken to incorporate ODBC into the package for version 5, and more news on the imminence of this will be given in Reporter as it becomes available.

Martin Mawson gave us a paper on "What I do with SIR", which was not an account of how he attends to his boss's every whim, but rather how Martin, of Humberside Police, has for years accumulated a SIR database of Traffic Accident Data. It is often difficult to collect this data, but things are improving, and Martin gave several interesting accident statistics culled from the data.

The last paper before the afternoon Tea/Coffee break was by Joan Fairgrieve on "GHS Data for Students". The Data Library at the University of Edinburgh has, amongst others, the role of assisting research and teaching staff to access data for secondary analysis. As a teaching aid, a subset of the General Household Survey data is created, involving the import of data into StatView.

Suitably fortified by tea and vittals, as biscuits are called in Scotland, we settled down for the final paper of the day. This was actually a workshop on Windows Definition Language, which underpins the 4.0 Windows release, and was therefore the second training session of the day. This was a development of Dave's talk on the subject at the June 1997 London Conference. WDL (Windows Development Language), for those of you who have just beamed down from another planet, is used to create menus and dialogs, to run programs and to view data. It is a powerful language, and Dave has evidently continued to apply himself to it with insight and enthusiasm. WDL can be used to customise the software interface to an impressive extent, and this was an extremely interesting workshop.

Randy Banks closed with a review and summary in his inimitable manner, and distributed goodies to the speakers, spreading glad-handing and bonhomie everywhere and then some. Thus

closed the Scottish One-Day Conference. There may be another one at the same time this year. However, Scotland is under consideration as the location for the 1999 International Conference, and hence the two may be merged. News of this will follow in subsequent issues of Reporter.

Mick Staley

Version 4.0 Release

Windows Version

As you know the Windows version has now been out for a couple of months. We have not had many problems reported which I take as a good sign. The only things that have come up so far are:

- A problem with Master if any records are longer than about 120chs. There is a fixed version available by downloading from our web site or on request.
- You cannot change table space - it is always the default 100,000. There is a fixed version for this available on request.

VMS Version

We have a VMS version for Alpha which is being tested and fixed currently. (There is a conflict between some special characters allowed in VMS filenames and our use of these characters as meaningful to WDL.)

Unix Versions

We shipped a beta Unix version before Christmas. We have not had much feedback in terms of features but we have had requests for versions which do not require Motif (graphics). We have been asked for a batch version which doesn't need a screen and a version which supports character/text terminals. We will produce a special executable for the batch version and we are looking at what we can do for character terminals. We might be able to supply a version which switches immediately to the menu system and does not use WDL if that helps people with character terminals. The Unix database structures have altered and are now compatible with the Windows version which means they are not compatible with 3.2 on Unix so people cannot switch between 4.0 and 3.2.

We expect to wait for feedback on these versions before producing any other Unix versions but will get most of those (HP9000, IBM RS6000, etc) out over the next couple of months. We understand that there is currently a 2 Gigabyte limit on filesizes and will fix this for 4.0.

Tony Reardon

SIR Development

We have been concentrating on conversions rather than new features for the last little while and have taken this opportunity to convert all our development from OpenVMS on Alpha to Windows. I have also made significant changes in the Fortran generated by SIRTRAN. While this does not directly affect the functionality of the end product I hope it makes development easier. The generated FORTRAN was always unreadable spaghetti ('Not intended to be read by humans' according to Wally) but this makes debugging and conversions very difficult. It now uses 'proper' Fortran constructs for IF THEN ELSE and DO loops and is indented for readability.

I have removed the limit of 32K words of stack size for compiled PQL programs. This is a non-trivial change to the PQL compile routines as it means that all internal references to the stack require 4 bytes instead of 2, various instructions are thus longer and various other tables also have to be redefined. This means that pre-compiled routines from earlier/current versions will have to be recompiled. Thus this is going to have a new version number - 4.1.

I have removed the concept of specifying table space. We now ask the operating system for space as we need it. This means that larger tasks will run without the user having to worry. The only limit is whatever size virtual memory you have on your machine.

We have six major areas where we are implementing new features. Our aim is to have a demo version showing something of all these features by the user conference in April so we are trying to build the initial version of everything on the list to show people. We will then produce the full version and we would like a commercial release of 4.1 approximately a year after 4.0 i.e October 98. The things we are working on are:

i) Graphics

We have created a new graphics module. This is

similar to the old SIR/Graph but is actually completely new and runs under Windows. The interface is through a simple text file which could be created on any machine and transferred to a PC. The product looks very nice and allows all sorts of graphics manipulation. The first version of this is already working.

ii) Spreadsheet Interface

We are building a spreadsheet interface. This is built as a Windows client/server where SIR is the server and the client is our new spreadsheet. We plan for this to be used in a couple of ways. The initial version is a new database utility command which specifies a record type, a boolean selection criteria and a list of variables. These are then displayed as a spreadsheet. The user can scroll through and can add new rows/records, delete rows and modify data. The user can then choose to apply these changes to the database. This version is already doing some stuff and will be demonstrated at the user conference. We will extend this to work with tabfiles.

We may also provide this as a new PQL procedure as a display tool without update facilities or it may be sensible just to create a tabfile/table and display this - we haven't quite decided.

iii) WDL from Schema

We are developing a WDL based data entry system which can be used instead of SirFORMS. This is progressing nicely and will be demonstrated at the conference. More details are given below.

iv) ODBC

We are going to implement ODBC. We have been researching this and will be putting it into

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SirSQL as a feature. We have not started cutting code on this yet but feel sure we will have something to show people at the conference.

v) WDL painter

We will allow a user to generate/design a WDL dialogue interactively. We haven't started on this yet.

vi) PQL GUI features.

We are going to put new constructs into PQL which will generate/interact with dialogues as per WDL dialogues. We haven't started on this yet.

GUI Data retrieval and modification

We are developing a WDL based data entry system which can be used instead of SirFORMS.

The user runs a program which creates the WDL script, PQL subroutines and help (html) for their specific database. The program then runs a second copy of SirDBMS using the database specific wdl file.

There will be a pulldown menu of record types (as well as some of the normal DBMS tasks that a data entry person may also what to use).

When a record type is selected an appropriate dialogue appears.

These will probably work like those 'wizard' dialogues; where you enter some information and press a continue (or back) button. Smaller records like the example above would only require one dialogue box.

Database help would optionally automatically appear and be available during data entry.

Tony Reardon

Profile of Jenny Simpson

Jenny Simpson is an analyst/programmer working on the development of survey systems at the Department for Education and Employment in Darlington. She has joined the SIR Users Committee in place of Barbara Stowe who has moved to a new post.

I am single and live with my sister, two cats and a dog. Main leisure activities are reading, arts/handicrafts, DIY and trying to get my Manchester terrier to co-operate at dog training classes. I have recently taken over a large, overgrown allotment and am in the process of trying to clear the waist high weeds and get

EMPLOYEE Page 1 of 1

ID: 1

NAME: John D Jones

GENDER: Male

MARSTAT: Married

SSN: 123-4237-111

BIRTHDAY: 12/11/1943

EDUC: Some University

NDEPENDS: 1

CURRPOS: Technician

SALARY:

CURRDATE:

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some crops out of it (lettuce, beans and potatoes so far).

I completed my first degree in biology and chemistry over 11 years ago, and after a short time as a footpath inspector (don't ask) joined the department as a trainee programmer. I originally trained in COBOL and SCL and worked on the department's data dictionary and archiving system. I then moved to the pilot team for EDI before ending up in the data management team where I first used SIR about 6 years ago.

Most of my SIR experience relates to exploiting data held on SIR databases, first on the mainframe computer and now on UNIX. The data I extracted was used for statistical analysis, initially by Fasolt but now mainly by Quicktab (and occasionally Excel).

I transferred to my current post just over a year ago, where I am now creating the database systems for data collection. I am responsible for creating a system that can load the data onto the database, validate it, allow any error correction and produce the relevant output. This is a new aspect of SIR for me and I am still fine tuning my schema creation techniques.

So far I have created the systems for Schools College Survey , F503G (Aid to Students), F618G (Teacher Employment and Vacancies) and Form 201 PISA (Student Achievements).

I am currently working on the 1996/97 F503G survey system and am using STAFFWARE with SIR for the first time.

1998 International Conference

There are places available for the conference, and Robyn at SIR Oz is still interested in offers of papers/tips/training from users. So contact her if you may be able to attend.

Provisional Program User Conference 98

Venue:	Ramada Resort Maingate Orlando
Conference Cost	US\$350 Per Person
Hotel Cost	US\$70.00(Inc Tax) approx. per room per night

Sunday 19th April

17.00 - 19:00	Registration
19:00	Cocktail Welcome Party

Monday 20th April

09:30	Welcome & Keynote speech
10.00	SIR V4 and WDL training
12:30	Lunch
13.30 - 17.00	SIR V4 and WDL training
19:30	Dinner & Show

Tuesday 21st April

09:30	User papers
11.00	Applications Program Interface Workshop
13.00	Lunch
14:00 - 17:00	SIR/ODBC Training/Workshops

Wednesday 22nd April

09:00	Advanced user tips and techniques
13.00	Lunch
14:00 - 17:00	User papers and group discussions
19:30	Conference dinner

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Forvus News

Ringling Out The Old – Ringling In The New

The advent of Xmas heralds a happy time of year to Forvus – it means that the final phase of the School and Colleges Performance Tables has been successfully put to bed and that Forvus Staff (not forgetting our valued counterparts at the DfEE) can relax to enjoy the party season.

After the Yuletide break Forvus staff returned to work refreshed and fired up with enthusiasm for the start of the New Year and new projects – 5 to be precise. Unfortunately I cannot tell you about these 'cos I wasn't given enough notice of the deadline for Reporter to get the necessary permissions from those concerned to mention the projects. C'est la vie, as we say in Clapham.

Even More Staff!

To support Kathy and Tracy in their project work we were pleased to welcome Jane Grayer as a permanent member of staff to Forvus in mid January. Jane had been working as a casual staff member at Forvus on the Performance Tables project for several months. We were so impressed that we offered Jane a full time post, and were delighted (and relieved) that she accepted! Jane will be responsible for managing the clerical and administrative input to projects undertaken by us, removing this chore from the technical consultants who can concentrate on, er, technical things.

You may also remember that we lost Philip Truscott who went to seek his fortune in the United States. Well, he's back, albeit temporarily. Apparently, getting a work permit over there wasn't as straightforward as was first thought, so Phil had to leave the U.S. while things were sorted out. He has been working on the Qstat development in the meantime and oversaw the recent release of Qstat for Windows.

QSTAT Released

The Windows version of Qstat fast tabulation software was released in early January. Early reports from users suggest that it has been well received. As well as being a fully Windows product, Qstat offers simple 'point and click' table building functions and a number of useful new features. For more information on Qstat, Email me at the address below.

SIR Escapes

SIR Version 4 for PCs was distributed to users just before Christmas. If you haven't received

your upgrade please talk to your SIR site contact. If you do not know who this is, contact me and I will tell you who the software was sent to.

Hopefully, we will receive the SUN version of SIR V4 by the end of March.

Steve Flack
stevef@forvus.co.uk

Frequently Asked Questions

Is it possible to control the placing of columns with the simple report writer?

Actually you can use all the standard facilities allowed in formatting with a WRITE command. For example, this is valid:

```
report filename = ...
  print = ID (6t,i4 'ID Number')
         NAME(5x,a20)
         GENDER(3x,L6)
```

The L6 format for gender will give the first 6 characters of the value label. The 'L' format is available only in simple report, but you can achieve the same output data as above with a write command like:

```
write 6t ID (I4) 5x NAME(a20) 3x
      [vallab(GENDER)] (a6)
```

I have installed SIR 4.0 but help does not work

If you are running Windows 3.1 you will need to edit the SIR.INI file as explained on page 3.

How can I convert my existing SIR 3.2 user menus to WDL?

David Baxter at SIR Oz has written a PQL program which produces a WDL script from a user menu. You can download his program from the SIR Oz web site. Visit

<http://www.sir.com.au>

and pick 'Downloads'. This program is listed under 'Handy Utilities and PQL Programs'.

Alternatively go direct to this page at

<http://www.sir.com.au/software/download.html>

BBC

Audience Data Services

Analyst / Programmer

A vacancy exists for an Analyst/Programmer with experience of relational database techniques looking to use their existing skills while at the same time cross training to new client / server technologies.

The successful applicant will join a small, multi-skilled team providing access to TV and Radio Audience data for researchers, business analysts and schedulers throughout the BBC.

To take up this role you will need at least 2 years experience in an RDBMS (SIR/Informix/Oracle) or NT SQL Server environment. You will also be an effective communicator.

Experience of some of the following - UNIX, NT, Visual Basic, Microsoft tools and HTML is desirable. Knowledge of Research and Data Analysis techniques and an interest in broadcasting would be an advantage.

Salary will be in accordance with experience - c. £25k.

For further details contact Dave Greatorex on 0181 576 7060
[e-mail dave.greatorex@bbc.co.uk]

SIR UK User Group Committee Members 1997/98

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