

how
you
can get
even more
from
4D

4D

PLUG-INS

DEVELOPER TOOLS

EDUCATION

Companion products and resources

VOLUME 1



How you can get the most from 4D

Dear colleague,

Welcome to the premier issue of the 4D Companion Products and Resources Catalog. The following pages are filled with a variety of products that will reduce your development time, save you money, and help you write better applications.

Now is the time to be a 4D developer. ACI and many third party developers are continually working to expand and enhance the 4D development environment with new products, tools and learning resources to help you meet the growing needs of the market.

While ACI has been busy developing 4D V6 many of the fine third party add-ons and plug-ins have also been updated for this new version. This catalog includes many new and old plug-ins and resources for your use.

Why reinvent the wheel? The items in this catalog offer you proven solutions. You get tried and tested code that complements your own.

How do you develop applications today? Do you work on your own? Is your team getting enough help? Adding plug-ins to your development tool chest is like adding an expert programmer to your team. Stop wasting time and money. Bring in some 4D plug-ins and start creating applications that you've only dreamed of before.

I encourage you spend some time reviewing the pages that follow—after all—they might just contain the answers you need!

Sincerely,

Mark Yelich
Publisher

For more information regarding the 4D Companion Products and Resources Catalog, or to participate in future issues, please contact:

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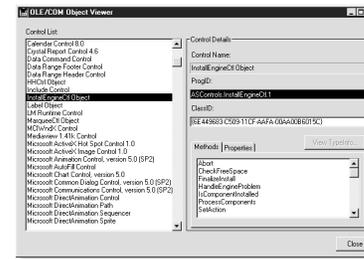
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AUTOMATED SOLUTIONS GROUP

Activator



OLE/COM Object Viewer

Activator is a 4th Dimension plug-in which provides the ability to use standard ActiveX controls and COM objects within Windows based applications.

Activator is comprised of a plug-in area for controls which contains an end user interface (ActiveX controls are COM objects with a user interface), and a suite of supporting routines to communicate with ActiveX or COM objects. Developers can create multiple instances of the same object throughout the application.

During design time, developers can use the Advanced Properties button available in 4th Dimension v6 to create and configure the desired ActiveX control, including direct access to the Design time interface exposed by the ActiveX control.

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FEATURES

- ▶ Plug-in Area object for ActiveX controls
- ▶ Execute any COM object method
- ▶ Communicate with custom ActiveX events through 4D callback method
- ▶ Get and Set COM properties
- ▶ Built-in support for registering controls on user systems when using 4D Server

REQUIREMENTS

- ▶ PC running Windows 95 or Windows NT
- ▶ 4th Dimension 3.5.3 or higher

PRICING

- ▶ \$199.95
- ▶ No-hassle license

FEATURES

- ▶ Allows you to display and edit records or arrays
- ▶ Lets you drag cells, rows, or columns
- ▶ Gives complete control of color, font, size and style
- ▶ Detects single and double-click
- ▶ Allows horizontal and vertical scrolling
- ▶ Allows type-ahead scrolling
- ▶ Displays up to 255 columns

REQUIREMENTS

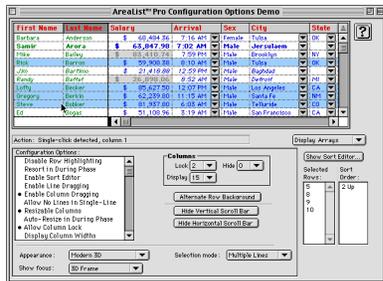
- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ 4th Dimension 3.1.1 or higher. (displaying fields requires 4D 3.5.3 or higher)

PRICING

- ▶ \$325.00 US/CAN
- ▶ \$355.00 INT'L
- ▶ No-hassle license

FORESIGHT TECHNOLOGY, INC.

AreaList Pro



Control each row, column and cell

multiple AreaList Pro objects on a form, yet control the content, configuration and formatting of each one individually. You can even drag-and-drop an item from one AreaList Pro object to another.

AreaList Pro's powerful automatic formatting allows you to use it in all your applications, even without executing any of its extensive formatting commands. AreaList Pro adjusts the column widths based on the data contained in the specified columns, and your users can instantly scroll, sort, and make selections in a variety of ways — without additional programming.

The performance and user interface is fast and conforms to good interface guidelines. Even lists with tens of thousand of rows display almost instantly and have good redraw performance.

AreaList Pro gives you complete control over nearly every aspect of its functionality, so you can provide exactly the interface you want. It will greatly increase your arsenal of tools for the 4th Dimension environment.

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AreaList Pro is a plug-in for 4th Dimension that provides functionality to easily implement editable scrolling lists directly on your 4D forms. AreaList Pro will display one to 255 columns of 4D arrays or fields in a plug-in object. You can have

FORESIGHT TECHNOLOGY, INC.

CalendarSet



CalendarSet object at Runtime

and banners can be selected, dragged within areas, to and from external areas and across windows and processes. Events in a day can be easily scrolled, and word wrapping is a snap!

CalendarSet is extremely easy to set up. A CalendarSet can be placed on a 4D form and it automatically will show the current month. With just a few commands, you can display text and icon information using 4D arrays. Loading these arrays is as simple as using the 4D SELECTION TO ARRAY command.

CalendarSet's new Advanced Properties dialog allows you to configure CalendarSet with a simple point-and-click. Use it to set all CalendarSet properties without having to write any code.

Whether using 4D v6 or an earlier version of 4D, you can configure CalendarSet objects to be resizeable on a 4D form. In 4D v6, you just have to make the appropriate changes to the CalendarSet object's properties, the form's properties and choose the proper window type and you're done.

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CalendarSet is a plug-in for 4th Dimension that allows you to create and manage a calendar interface in your 4D windows and forms. You control the number of days in the week starts, the day view, week view, or month view. Events

FEATURES

- ▶ You can easily add a powerful calendar interface to your 4D applications
- ▶ Gives complete control of color, font, size and style
- ▶ Allows you to control which days of the week are displayed
- ▶ Lets you highlight an entire cell, just the day number
- ▶ Allows you to specify single, multiple or non contiguous days
- ▶ Provides popup menu objects for date, time, icon, and color selection

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ 4th Dimension 3.1.1 or higher

PRICING

- ▶ \$195.00 US/CAN
- ▶ \$215.00 INT'L
- ▶ No-hassle license

FEATURES

- ▶ Lets you set colors for foreground and background
- ▶ Lets you display up to six buttons in a DisplayList dialog and detect which was clicked
- ▶ Allows you to hide a column from users
- ▶ Provides formatting control of each individual column
- ▶ Allows detection of single and double clicking
- ▶ Lets you enable or disable user resizable columns or auto sizing columns

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ Requires 4th Dimension 3.x or higher

PRICING

- ▶ \$140.00 US/CAN
- ▶ \$165.00 INT'L
- ▶ No-hassle license

FORESIGHT TECHNOLOGY, INC.

DisplayList

Please select one or more items:

First Name	Last Name	Salary	Arrival	Sex	City	St
Christopher	Robert	\$70,154.28	12:34 PM	Male	Quincy	MA
Hugh	Rogoy	\$52,014.16	10:19 AM	Male	Denver	CO
Brad	Romey	\$45,777.76	12:53 AM	Male	Minneapolis	MN
Mort	Rosenthal	\$72,917.88	8:00 AM	Male	San Jose	CA
Steve	Rosenthal	\$85,030.18	8:55 AM	Male	San Francisco	CA
Jonathan	Rotenberg	\$67,675.86	7:09 PM	Male	Redmond	WA
Stephen	Saltzman	\$69,110.58	6:09 AM	Male	Superintio	CA
James	Sanford	\$76,472.34	5:56 AM	Male	Baghdad	
Scott	Schwartz	\$26,010.18	12:13 PM	Male	New Orleans	LA
John	Sculley	\$22,755.28	4:05 AM	Male	Moscow	RU
Jonathan	Seybold	\$86,926.88	11:28 PM	Male	Seattle	WA
Patricia	Seybold	\$52,947.44	2:07 AM	Female	Quincy	MA

Edit Send Dial Cancel OK

High-performance scrolling choice lists

DisplayList opens its own window automatically, performance is extremely fast.

DisplayList's powerful automatic formatting allows you to use it in your 4D applications even without executing any of its extensive formatting commands. DisplayList adjusts the column widths based on the data contained in the displayed arrays, and your users can scroll, sort and make selections in a variety of ways – without additional programming. DisplayList also gives you complete control over nearly every aspect of its functionality, so you can provide exactly the interface you want.

DisplayList is a 4th Dimension plug-in that allows you to easily implement scrolling lists for user interaction.

DisplayList will display one to fifteen columns of 4D arrays in a modal window, along with one to six custom buttons. Because

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FORESIGHT TECHNOLOGY, INC.

DynArray

```
Object Method: invoice_items
Object Method for AreaList Pro object eInvoice_items
Case of
IF Form *****Load
RELATE PART(Invoice.InvoiceID) 'establish a selection of line items
SELECTION TO ARRAY(Invoice.ProductID, aItem.ProductID)
Fill a_Item.ProductNames with the paired values from a_All_ProductNames
'assumes a_All_ProductNames and a_All_ProductIDs are already filled
DA_LoadupFill(a_Item.ProductNames, a_All_ProductNames, a_Item.ProductIDs, a_All_ProductIDs)
End case
'Continue with the rest of the AreaList Pro object coding
```

DynArray commands replace lots of code

performance of any application that uses arrays.

If you use AreaList Pro, you'll be able to build the same cool interfaces in a fraction of the time. DynArray helps streamline AreaList development with features like fast and easy row deletion, insertion, and sizing. Drag and drop can be implemented in just four lines of code for most AreaLists. As heavy users of arrays, AreaList developers will immediately realize the benefits that DynArray's tools provide.

DynArray's powerful commands allow you to implement functionality like resizing, computing running totals, or deleting discontinuous elements with a single command. These and many other functions that could have otherwise required hundreds of lines of code can be implemented with just one using DynArray.

Using DynArray commands you can stop rewriting your code. It's no longer necessary to duplicate a complex coding effort just to use it in a slightly different function. Make your call to DynArray and let it do the dirty work.

DynArray is a plug-in for 4th Dimension that provide array handling functions. DynArray speeds the development of applications by allowing you to implement many array functions with hardly any effort. It will also increase the

FEATURES

- ▶ Resizes multiple arrays with a single command
- ▶ Deletes or copies discontinuous elements from multiple arrays with a single command
- ▶ Inserts elements into multiple arrays with a single command
- ▶ Sorts multiple arrays on multiple keys (even pictures and BLOBs)
- ▶ Fills an array with values based on another key-value pair of arrays

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ Requires 4th Dimension 3.2.5 or higher

PRICING

- ▶ \$129.00 US/CAN
- ▶ \$139.00 INT'L
- ▶ No-hassle license

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FEATURES

- ▶ Draggable task bars
- ▶ Bars can be controlled by date, time, and task numbers
- ▶ Hide or show rows, columns, and chart areas independently
- ▶ Header label control
- ▶ Foreground and background color control
- ▶ Text and line color control
- ▶ Displays icons or graphics for each task
- ▶ Developer controls fonts and font sizes
- ▶ Customizing features include new "style" technology which allows font and color information to be saved as a single object

REQUIREMENTS

- ▶ 4th Dimension 1.2.5 or higher

PRICING

- ▶ \$179.00
- ▶ No-hassle license
- ▶ 90 day money-back guarantee

DATAcRAFT

EleGantt

Task Name	Planned Start	Duration	Label	Finish
Company Retreat	11/2/97	5		11/14/97
Voice Testing Contest	11/5/97	4		11/19/97
Ship Product	11/18/97	0		11/18/97
Make Coffee	11/9/97	30		12/31/97
Get Into Orbit	11/15/97	365		11/15/98

The Gantt chart solution for your 4th Dimension database.

Visually display your database schedule information on any 4D form. With EleGantt you can easily build Gantt charts using standard symbols.

EleGantt draws Gantt bars and symbols for you, understands weekends, works with both time and date information, and is fully scalable. When coupled with 4D v6's Web publishing capabilities, it can also be used over the Internet.

EleGantt is compatible with 4D v6, and takes advantage of window and object resizing.

EleGantt has draggable task bars, variable row heights, and full color and style customization. In addition, EleGantt works dynamically with 4D arrays, so task movements are updated for you automatically.

EleGantt is another product that promises quality and ease of use.

DataCraft

12600 West Colfax Ave, Suite C210
Lakewood, CO 80215

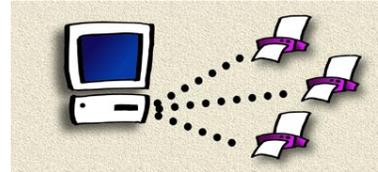
Tel 303.232.4321
Fax 303.233.4343

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<http://www.datacraft-inc.com/>



SOFT SOLUTIONS, INC.

FaxPack™



FaxPack™ 2.2 provides complete and reliable fax integration directly within 4D. For five years running, FaxPack is the 4D Developer's choice for production environments with heavy faxing requirements. Because

when you get right down to it - businesses can't afford downtime. Why should your 4D program?

Today, FaxPack is used heavily in automated faxback systems, marketing and customer information systems and a large variety of real-time service systems within demanding businesses. 4D Developers appreciate it's easy integration and rock-solid performance.

FaxPack is available for both the Macintosh and Windows platforms and operates with the leading fax engines on each platform. FaxPack for Macintosh is Mac4DX compatible, PowerPC native and works exclusively with 4-Sight PowerFax, the leading Macintosh fax server. FaxPack for Windows is Win4DX compatible and works exclusively with Symantec Winfax Pro - the world's number one selling fax software.

So when your 4D database must deliver commercial strength endurance and reliability for high volume fax shots, there's just one choice. For a free evaluation - or to begin building your ultimate fax database, please see our directory on the ACIUS product CD or download a copy from our web page.

Soft Solutions, Inc.

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Atlanta, GA 30341
Tel 770.457.9400
Fax 770.454.9800
sales@softsinc.com
<http://www.softsinc.com/>



FEATURES

- ▶ Complete fax status and messaging
- ▶ Automated cover page selection
- ▶ Concurrent multi-process support
- ▶ Fax merge & broadcast support for large-scale faxing
- ▶ Fully automate with date/time initiated faxing
- ▶ Programmable multi-file enclosure picker
- ▶ Delayed faxing and resolution control
- ▶ Continued stability & reliability

REQUIREMENTS

- ▶ 4D/4D Server v3.26/1.26+ and v6+
- ▶ 4-Sight Fax version 3.2+ or Symantec Winfax 8.0+
- ▶ Mac OS 7.0+, Windows 95 or Windows NT

PRICING

- ▶ \$295 per developer, royalty-free Mac & Windows
- ▶ 60 day unconditional money-back guarantee

FEATURES

- ▶ Full featured Import/Export capabilities to any application
- ▶ Supports dBASE and Fox Pro files
- ▶ Procedural Callback Support
- ▶ Import/Export Callbacks and Default Values
- ▶ Full featured Preview Editor
- ▶ Support for a variety of Mac and MS DOS file formats
- ▶ Optional rollback support for incomplete import operation

REQUIREMENTS

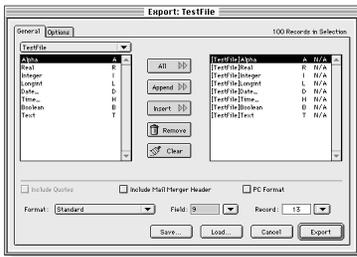
- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT
- ▶ 4th Dimension 3.5.3 or higher

PRICING

- ▶ \$199.95 Mac or Win
- ▶ No-hassle license

AUTOMATED SOLUTIONS GROUP

I/O Pack



I/O Pack Export Editor

I/O Pack is a collection of 4D methods, forms, and plug-ins designed to enhance your applications, by providing complete Import/Export capabilities for all your data exchange requirements.

Using I/O Pack, you can now provide a full featured Import/Export system in custom applications, supporting a wide variety of file formats and configuration options. I/O Pack can be implemented using a single routine; or for greater control, you can use the extended I/O Pack developer routines.

With I/O Pack, you now have access to a wide variety of file formats for complete data exchange with other applications (including files which were created on other operating systems). For complex importing requirements, I/O Pack provides the ability to execute procedural callback during import and export operations, useful for assigning data during the import process such as sequence numbers, date/time stamping, etc. For those files which need to be partially imported, I/O Pack provides the ability to skip fields during the import process as if the data were not there.

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FORESIGHT TECHNOLOGY, INC.

Internet ToolKit (ITK)



Access 4D using your Web browser

Internet ToolKit is an inexpensive yet extremely powerful plug-in for 4th Dimension (4D) that allows you to transform any 4D database into an Internet server or client. ITK can be used in all 4D products to provide complete TCP/IP connectivity for your application.

You can use ITK to implement FTP (File Transfer Protocol) servers, email (using SMTP) servers, news servers, mailing list servers, and Web (HTTP) servers. ITK can also be used to create FTP, email, news, mailing list, and Web clients. You can even design your own custom TCP/IP protocols to implement application-to-application communications.

Utility commands are provided to convert PICT to GIF or JPEG, encode files using MacBinary or BinHex, and to convert text to HTML, with options for URL encoding and ISO character conversions.

ITK adds more than 50 commands to the 4th Dimension language, enabling low and high level control of TCP/IP stacks, including UDP and DNS. Developers running on Windows NT can take advantage of "Multi-Homing". A single machine can handle up to four different IP addresses per Ethernet card, allowing effortless hosting of multiple servers with different domain names.

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FEATURES

- ▶ Provides access to low-level TCP/IP using MacTCP and WinSock
- ▶ Supports file transfers using FTP
- ▶ Allows access to low-level UDP
- ▶ Supports JPEG and GIF pictures including GIF encoding with interlace, transparency and resize
- ▶ Allows management of distributed data over TCP/IP
- ▶ Lets you implement server replication over TCP/IP
- ▶ Gives access to DNS (name to IP and IP to name, with DNS load balancing)

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT

PRICING

- ▶ \$395.00 US/CAN
- ▶ No-hassle license

FEATURES

- ▶ Advanced Properties Dialog lets you configure menus with no coding
- ▶ Can embed menus in AreaList Pro objects
- ▶ Allows multi-level hierarchical menus
- ▶ Allows the import/export of menu appearance settings at runtime
- ▶ Date, time, icon, palette, combobox, and 3D look pop-up menus are available from all platforms

REQUIREMENTS

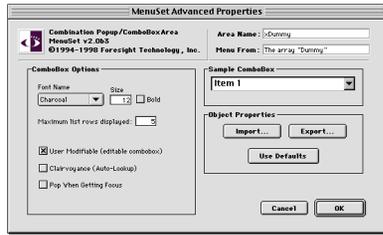
- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ Requires 4th Dimension 3.1.1 or higher. (Advanced Properties Dialog requires 4D v6 or higher)

PRICING

- ▶ \$129 US/CAN
- ▶ \$139 INT'L
- ▶ No-hassle license

FORESIGHT TECHNOLOGY, INC.

MenuSet



MenuSet Advanced Properties Dialog

MenuSet to create external pop-ups from arrays or resources. The abundant customization commands allow you to create otherwise impossible interfaces.

MenuSet's Advanced Properties dialog gives you access to MenuSet's commands and functionality without writing a single line of code. A simple point-and-click interface makes adding MenuSet functionality to your 4D database incredibly quick and easy. The ability to import/export menu appearance settings means that you can share your MenuSet configurations with several different applications without having to repeat your settings.

Combobox support uses the same code as other Windows applications for a natural interface, and includes "clairvoyant" or "lookahead" functions. If you choose to generate a displayed list, MenuSet will automatically remove dashes, disabled items, and other menu elements that aren't compatible with Windows standards.

MenuSet's powerful formatting capabilities let you create almost any kind of menu you can imagine. MenuSet handles Grayscale (Mac OS 8.x), Classic (Mac OS v.7.x), and Windows.

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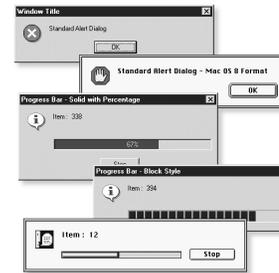
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MenuSet is a powerful plug-in for 4th Dimension that allow you to quickly and easily create pop-up and menu bar menus, saving you valuable time and coding effort. MenuSet is extremely easy to use. No programming is necessary for

AUTOMATED SOLUTIONS GROUP

MessageTools



Custom MessageTools Dialogs

for display on screen progress thermometers, multi-button dialogs as well as a progress bar plug-in area.

All MessageTools dialogs provide the ability to customize the appearance of the dialog through a series of custom properties, providing the ability to customize message text, button labels, default button, window title and dialog icon.

Variable height message text, dialogs automatically sized

Progress Bar dialogs can contain an optional "Stop" button. Multiple progress bar display (up to six different formats to choose from).

In addition to the display appearances available, MessageTools provides many features for defining the window positioning attributes and automatic dialog boxes.

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FEATURES

- ▶ Auto sized dialogs based on the size of the message text
- ▶ Supports longer messages than standard 4D notification dialogs
- ▶ Customizable icons/button labels
- ▶ Customizable default button
- ▶ Optional progress thermometer on message dialogs
- ▶ Customizable background window color
- ▶ Customizable window position

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1x, Windows 95 or Windows NT
- ▶ 4th Dimension 3.5.3 or higher

PRICING

- ▶ \$89.95 Mac or Win
- ▶ \$149.95 Mac/Win Bundle

FEATURES

- ▶ Handles all communication between the Web server and 4D
- ▶ Includes Java libraries for connecting to 4D via a Java interface
- ▶ Supports file upload
- ▶ Allows you to send email from 4th Dimension using SMTP
- ▶ Manages concurrent Web server requests and multiple 4D processes
- ▶ Supports secure transactions using any SSL capable Web server
- ▶ Handles converting and sending 4D picture fields as GIF and JPEG

REQUIREMENTS

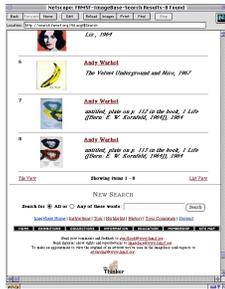
- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT

PRICING

- ▶ \$225 Mac, \$250 Win US/CAN
- ▶ \$245 Mac, \$270 Win INT'L
- ▶ No-hassle license

FORESIGHT TECHNOLOGY, INC.

NetLink/4D



Build Web pages on-the-fly with live data

featured relational database provides many ways to present and exchange information with Web browsers. NetLink includes libraries that allow you to add a Java interface to 4D. Using Java, you can create more sophisticated solutions than are possible with just HTML. Interface design is more flexible and Java provides extended error checking and validation capabilities.

NetLink/4D handles concurrent connections between your Web server and 4D using 4D's multi-tasking architecture. This allows multiple Web clients to perform database actions at the same time, resulting in outstanding performance—something you won't find with traditional CGIs.

NetLink is available in Macintosh and Windows versions that communicate with your Web server using the Microsoft, Netscape, or WebSTAR plug-in architectures, or CGI connections. NetLink/4D performs all the parameter handling and parsing, and provides a simple, intuitive command set for sending replies back to the Web server in the form of HTML scripts and images in GIF and JPEG formats.

Foresight Technology, Inc.

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Fax 817.293.6215

sales@foresight.com
<http://www.foresight.com/>



NetLink/4D is an easy-to-use package for connecting Web servers, such as Microsoft Internet Information Server and WebSTAR, to a 4th Dimension (4D) or SQL database. This powerful combination of comprehensive Web server and full-

FORESIGHT TECHNOLOGY, INC.

PrintList Pro

\$422.50	Now is the time for all good men to come to the aid of their country.	AreaList Pro allows you to display up to 100 arrays, with both horizontal and vertical scrolling.
\$3,254.78	It was the best of times, it was the worst of times. It was also a dark and stormy night. A dog howled. A cat meowed.	AreaList also lets you select single or multiple lines.
(\$98.25)	We have nothing to fear but fear itself.	Many developers also like AreaList Pro and PrintList Pro's flexible formatting options, including the new version 5 ability to format individual cells!

Variable height rows, word-wrapped text

PrintList Pro is a plug-in for 4th Dimension that provide plug-in functionality to easily print arrays or records directly from your 4D application layouts. PrintList Pro allows you to build reports in seconds, simply by using PrintList external objects. You can quickly generate customized reports in a variety of ways, much faster than with 4D commands alone.

PrintList Pro's powerful automatic formatting allows you to use it in your applications even without executing any of its extensive formatting commands. PrintList Pro, by default, adjusts the column widths based on the data contained in the displayed records or arrays, or you can customize the output by formatting each column individually. PrintList Pro will even handle variable-sized rows with multiple columns of word-wrapped text. PrintList Pro lets you provide exactly the printed output you want — all with minimal programming effort and low memory overhead. Best of all, PrintList Pro's special commands provide seamless integration with AreaList Pro!

PrintList Pro's elegant break-level processing includes the ability to calculate Count, Sum, Average, Min, Max, or perform custom calculations on the processed data. You have complete control over the font, style, size, and justification for all break-level text and the line width, pattern, and color of PrintList lines.

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FEATURES

- ▶ Can print records or arrays
- ▶ Lets you sort and print break-levels
- ▶ Allows multiple lines of text in headers, rows, and break-levels
- ▶ Allows calculations on data in break-levels
- ▶ Lets you print up to 100 columns/arrays/fields, and most 4D data types including pictures
- ▶ You can force a page break on any break-level

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ 4th Dimension 3.1.1 or higher. (displaying fields requires 4D 3.5.3 or higher)

PRICING

- ▶ \$175.00 US/CAN
- ▶ \$195.00 INT'L
- ▶ No-hassle license

FEATURES

- ▶ A powerful and affordable solution for cross-platform image databases
- ▶ Opens and saves to all image formats supported by QuickTime
- ▶ Creates image thumbnails to store in 4D with full control
- ▶ Provides a scrollable plug-in area to display image files or picture fields on 4D forms
- ▶ Lets you access picture data stored in BLOBs (requires 4D v6)

REQUIREMENTS

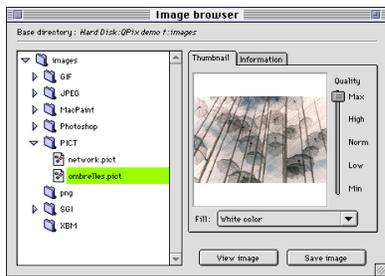
- ▶ MacOS System 7 or higher, QuickTime v2.5 or higher
- ▶ Windows 95 or NT4, QuickTime v3 or higher
- ▶ 4th Dimension v3.5.3 or higher (some features require v6)

PRICING

- ▶ \$135.00 per developer (Mac or Win)
- ▶ \$230.00 per developer (Mac and Win)
- ▶ Hassle-free license

ESCAPE INFORMATION SERVICES

QPix



Browser window from the Qpix demo

QuickTime comes with Graphics Importers, a kind of plug-in software that relieve applications of understanding image file formats, providing a generic, cross-platform way to work with graphics files. QPix provides 40 commands that allow you to:

- Read all popular image file formats into 4D variables or fields;
- Display image files and 4D pictures in scrollable plug-in areas;
- Get image width, height, resolution and color depth;
- Create thumbnails from image files instantly, with detailed control over dimensions, color depth and image quality;
- Save images as JPEG, BMP, Photoshop, QTIF and PICT;
- Access image data stored in BLOBs (4D v6 only).

With QPix, your 4D code need not be aware of image file formats; QuickTime does this. As new components adding features and power to QuickTime are being developed from Apple and third parties, your image databases instantly get richer, without changing a single line of code, at no extra cost.

Escape Information Services

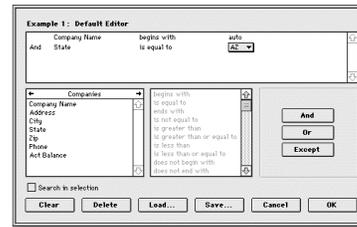
Logothetou 2
 GR-54655 Thessaloniki
 Greece
 Tel +30.31.411.677
 Fax +30.31.411.691
 escape@escape.gr
 http://www.escape.gr/



QPix enhances 4D's image-handling capabilities by establishing a bridge between 4D and QuickTime, Apple's award-winning, extensible, cross-platform technology that has become the industry standard for handling media types.

AUTOMATED SOLUTIONS GROUP

QueryPack



Customized QueryPack Search Editor

QueryPack provides a direct interface to virtual structures created using VirtualStructure (bundled with QueryPack). Simply create your customized structure using the VS routines and all attributes will be used by QueryPack.

QueryPack now provides complete access to your entire structure, either the standard 4D structure or a customized structure using the Virtual Structure external package. No longer are you required to place all the query fields in the same list. You may navigate through your file structure using the directional arrows or by selecting the desired file from the popup file list.

For complete customization, QueryPack provides a set of routines to provide editor customization including button labels, enabled/disabled attributes and custom operator lists.

QueryPack supports loading/saving of entered search/sort parameters. Simply create special query documents and they can be used to pre-configure the QueryPack Search/Sort Editor or executed automatically, with no end user interaction required.

Automated Solutions Group

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 Huntington Beach, CA 92647

Tel 714.375.4252
 Fax 714.848.0382

sales@asgsoft.com
 http://www.asgsoft.com/



FEATURES

- ▶ Query line item may include popup and radio button
- ▶ Search values are edited directly in the query list
- ▶ Optimized for 4D Server connections
- ▶ Full 4D callback support
- ▶ Easy-to-user interface, containing standard 4D Editor interface
- ▶ Full International customization

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT
- ▶ 4th Dimension 3.5.3 or higher

PRICING

- ▶ \$199.95 Mac or Win
- ▶ \$299.95 Mac/Win Bundle
- ▶ No-hassle license

FEATURES

- ▶ Dynamic colored objects are actually database records
- ▶ Colored objects support stretching, moving, drag and drop and data entry
- ▶ Database engine calls performed without programming
- ▶ Resource scheduling and multi-day banner support
- ▶ Callbacks with mnemonics for complete schedule control
- ▶ Dynamic monthly calendar plug-in included with scheduler

REQUIREMENTS

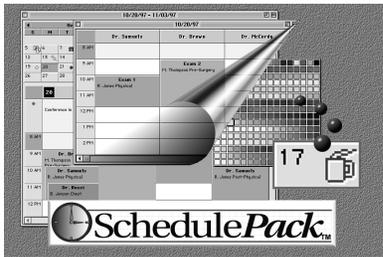
- ▶ 4D/4D Server 3.53+/1.53+ and/or 4D/4D Server v6+
- ▶ Macintosh OS 7.0+, Windows 95 or Windows NT 3.0+

PRICING

- ▶ Royalty-free developer licenses are \$295
- ▶ Commercial product deployment licenses are \$295 annually

SOFT SOLUTIONS, INC.

SchedulePack™



Writing scheduling software in 4D has historically been tedious, labor intensive and difficult to maintain. SchedulePack™ brings a new level of capability while removing this hair-

splitting tedium. Fast, innovative and simplified 4D Scheduling has never been easier. Click, move or stretch a colored object to edit a database record. Option-click to change colors. SchedulePack is just warming up. It's simple, easy and compelling for Users. It's fast & powerful for developers. Most databases can integrate complete scheduling capability in a morning. SchedulePack is also ideal for commercial product developers looking for a competitive edge. SchedulePack inherently harnesses the 4D relational database engine. It organizes related Events data (resources) in an attractive and informative manner and requires no coding for basic record management and retrieval. Alternatively, one callback tracks all user actions with a full set of mnemonics - so customizing is simplified when conditions warrant. With SchedulePack, database users instantly recognize the columnar format and instinctively get down to work. For a free evaluation - or to begin your scheduling masterpiece, please see our directory on the ACIUS product CD or download a copy from our web page. All Soft Solutions products come with an unconditional 60 day money-back guarantee.

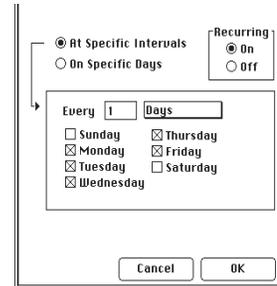
Soft Solutions, Inc.

2900 Chamblee Tucker Road
 Building 12 Suite 200
 Atlanta, GA 30341
 Tel 770.457.9400
 Fax 770.454.9800
 sales@softsinc.com
<http://www.softsinc.com/>



FORESIGHT TECHNOLOGY, INC.

Servant



Easily automate daily tasks

background process or another computer.

Servant can be implemented in any 4D database shell or application that works in the runtime environment. Users of the Foundation development shell, from DataCraft, can install Servant as a "Building Block" to add its functionality to the shell.

Servant manages all low level messaging, scheduling, recurring capabilities and process handling for you. Reports and other tasks can be easily hooked into Servant with high level calls. There is no need to rewrite existing report interfaces.

Routines are provided to bundle all conditions of a report or task including local, process and IP variables, user selection, current sort order, and quick report templates. This enables another process or computer to completely replicate any conditions needed to run a task - all with minimal programming.

Foresight Technology, Inc.

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FEATURES

- ▶ Automates routine reports by scheduling them to print on a regular basis or on specific days
- ▶ Sends reports to the background, foreground, or to other computers running 4D Client
- ▶ Enables another process or computer to completely replicate any conditions needed to run a task—all with minimal programming
- ▶ Automates tasks such as faxing or messaging

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.x, Windows 95 or Windows NT

PRICING

- ▶ \$199.00 US/CAN
- ▶ \$219.00 INT'L
- ▶ No-hassle license

FEATURES

- ▶ Can correct a single instance or all instances of a misspelled word
- ▶ Lets you add or remove words from the main or document dictionary
- ▶ Supplies suggested spellings for misspelled words
- ▶ Lets you set the number of suggested spellings that are returned
- ▶ Allows you to set the type of errors to be identified
- ▶ Works with supplemental medical, legal, and technical dictionaries

REQUIREMENTS

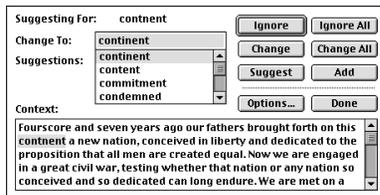
- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT
- ▶ Requires 4th Dimension v6 or higher

PRICING

- ▶ \$195.00 US/CAN
- ▶ \$215.00 INT'L
- ▶ No-hassle license

FORESIGHT TECHNOLOGY, INC.

Spellswell for 4D



Spellswell for 4D spellcheck dialog

Spellswell for 4D spellcheck dialog 93,000 word dictionary. An extended dictionary as well as supplemental dictionaries for specialized subjects such as medical, legal, technical and others are available to extend Spellswell for 4D's capabilities even further.

Spellswell for 4D can be used to spellcheck 4D Write documents without using any special commands. 4D Write detects that Spellswell for 4D is installed and adds menu items to the Edit menu to spellcheck the entire document or the current user selection.

Auto spellcheck can be used to auto check 4D fields or variables. Just check the 4D v6 Auto Spellcheck checkbox and you can spellcheck without a single line of code.

Spellswell for 4D is extremely flexible. A built-in dialog is available to provide a consistent spellchecker interface to the user. Or, if you prefer, you can provide your own custom user interface. For the greatest control use Spellswell for 4D's powerful commands to spellcheck procedurally.

Why should you or your clients have to worry about spelling mistakes in your 4D database? Use Spellswell for 4D and let your databases check your spelling for you.

Foresight Technology, Inc.

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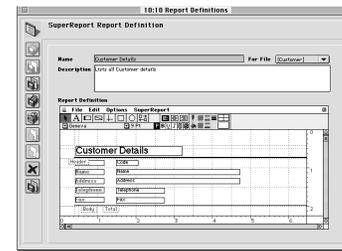
sales@foresight.com
http://www.foresight.com/



Spellswell for 4D is a plug-in for 4th Dimension that provides plug-in functionality to easily implement spellchecking of 4D Write documents and 4D text fields or variables. Spellswell for 4D comes complete with a

AUTOMATED SOLUTIONS GROUP

SuperReport Pro



SR Pro Report Editor

SuperReport Pro provides all the standard graphic development tools that you are accustomed to in the 4D Layout Editor. In addition, SuperReport Pro allows you to place fields, variables and arrays directly on the report layout.

SuperReport Pro can generate reports from standard record selections, or from arrays. For complicated reports, you can load the record data into arrays, process the array information and generate the report from arrays directly.

SuperReport Pro provides extensive procedural callback support throughout the printing of report documents. You can easily add custom 4th Dimension procedures or code snippets to any section or report object within your document.

In addition to providing printed output, SuperReport Pro supports standard ASCII output (full support over record and field delimiters), useful for creating text based reports. SuperReport Pro also supports the ability to print report pages to 4th Dimension picture arrays, useful for creating thumbnail views of data.

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FEATURES

- ▶ Reports can include 4D data and pictures, including fields, variables and arrays
- ▶ Print reports without displaying the SuperReport Pro editor
- ▶ Extensive Callback Support
- ▶ Output reports as HTML files
- ▶ Supports 4D Picture objects
- ▶ Complete break processing support
- ▶ Print Preview to separate window

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT
- ▶ 4th Dimension 3.5.3 or higher

PRICING

- ▶ \$399.95 Server Mac or Win
- ▶ \$299.95 Single User Mac or Win
- ▶ No-hassle license

FEATURES

- ▶ Allows extremely fast 5-digit ZIP Code lookups
- ▶ Returns valuable proximity information from existing data
- ▶ Includes data file of current ZIP Code and related information
- ▶ Includes valuable quick start sample code
- ▶ Enables you to selectively update data using the date modified field

REQUIREMENTS

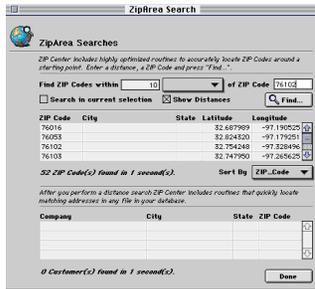
- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT
- ▶ Requires 4th Dimension 3.5 or higher

PRICING

- ▶ \$99.00 US/CAN
- ▶ \$99.00 INT'L
- ▶ \$99.00 Basic data subscription
- ▶ \$149.00 Enhanced data subscription
- ▶ No-hassle license

FORESIGHT TECHNOLOGY, INC.

ZipCenter



ZipCenter Demo AreaSearch Dialog

ZipCenter is a plug-in for 4th Dimension that provide useful ZIP Code functionality such as ZIP Code lookups, and distance calculations. The package includes quick start sample code, and an accurate database of over 42,000 ZIP Codes for every location in the US complete with related location data. ZipCenter can save you time and money by increasing data entry speed and accuracy. This is an incredible productivity tool for anyone who has to enter address data into a 4D application. ZipCenter dramatically reduces the number of data entry errors that occur when entering addresses into 4D.

People naturally think of the world geographically, with ZipCenter you can present your existing data in a new straightforward manner. Use the provided latitude and longitude information to implement a powerful and intuitive Geographical Information System (GIS). Using a database of suppliers a proximity search could find the two nearest suppliers that stock the part you need. Or a customer database could yield customers within 150 miles of a particular city for a targeted mailing.

ZipCenter includes 5-digit ZIP Code data stored in a specially formatted external file. This external file is optimized for quick and efficient ZIP Code lookups, and adds no data to your data file.

Foresight Technology, Inc.

3118 SE Loop 820
Fort Worth, TX 76140

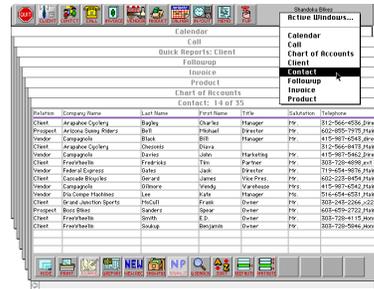
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http://www.foresight.com/



SOFTEC, LLC

A4® Business Management Software



A4® multi-process interface

A4® is a Client/Server, Cross-Platform business management system, providing a highly integrated feature set in a single 4D structure. Run A4 out of the box or customize to your needs with full source code access. Helping companies grow and run better since 1987, A4 integrates a rich set of Accounting functions with productive Management, Inventory, Sales, and Marketing features.

A4 features include: AR, AP, GL, Payroll Links, Quote/Order/Invoice Processing, Inventory Management, Product Serialization, Purchasing, Job Costing, Contact Management, Sales Lead Tracking, Intra-office Follow-up Notes, Calendar & Memos, User-defined Reports, Financial Report Maker, Password Protection, Multiple Access Levels, and optional 4D Write and 4D Calc integration.

A4's time-tested, well-designed source code is available as a purchase option. Save countless months and financial investment by building your custom business system with A4 as your foundation.

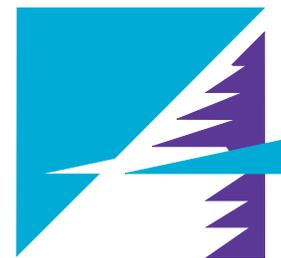
The A4 Open Source Workbook guides you through the A4 file structure, menus, naming conventions, documentation guidelines, key subsystems, interface components, and more. Softec's version control methodology facilitates upgrade management so you can take advantage of future A4 technology. Personalized training is also available.

Softec, LLC

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East Lansing, MI 48823

Tel 888-SOFTEC1 (763-8321)
Fax 517-333-6889

sales@a4softec.com
http://www.a4softec.com/



FEATURES

- ▶ Full accounting and business management feature set
- ▶ Well-designed, time-tested source code available
- ▶ Built with standardized processes, procedures and interface components to facilitate customization

REQUIREMENTS

- ▶ Mac OS 7.x or 8.0, Windows 95 or NT
- ▶ Macintosh: PPC, 24MB RAM, 500MB HDD
- ▶ Windows: Pentium, 24MB RAM, 500MB HDD
- ▶ 4D 3.5.4, 4D Server 1.5.4 (for A4 v5.5)

PRICING

- ▶ \$3,995 Client/Server (2-User)
- ▶ \$530 Additional Users (5- & 10-User Expansion Pricing)
- ▶ \$3,460 Open Source Pro License (includes Plug-In licensing)
- ▶ \$2,500 Open Source License

FEATURES

- ▶ Checks record integrity
- ▶ Reports on all tables and fields in a file
- ▶ Cross references and verifies each record with index data
- ▶ Checks freemap integrity
- ▶ Performs quick check of structure file
- ▶ Reports index and file size information
- ▶ Provides detailed stats on indices and records
- ▶ Detects "double-index" problems
- ▶ Allows you to fix some problems

REQUIREMENTS

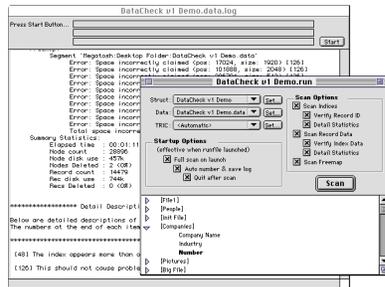
- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ Requires 4th Dimension 3.1.1 or higher

PRICING

- ▶ \$199 US/CAN
- ▶ \$219 INT'L
- ▶ No-hassle license

FORESIGHT TECHNOLOGY, INC.

DataCheck

**DataCheck Run window and Log file**

noting and explaining any questionable items. You have full control over which indices and tables you wish to scan, which can save considerable time when diagnosing problems. You even have the option of selecting indices to be dropped.

DataCheck is completely safe to use because it opens your data file in read-only mode. However, it can allow you to make modifications, but only after it displays numerous dialogs warning you that you're about to modify your data. And you have full control of the items DataCheck scans for.

DataCheck delivers detailed descriptions on exactly where the problems are in your data files—and will benefit both the beginner and the professional. DataCheck not only identifies problems, it also recommends corrective actions you should take when problems are found. So you'll always have the confidence of knowing your data is trouble-free.

DataCheck Runtime is safe and simple enough for clients to use. Use the developer version to build a run file that can be used immediately, or scheduled to run later. Use a third party "cron" utility, and have DataCheck run nightly and deliver a detailed report to you the following morning.

Foresight Technology, Inc.

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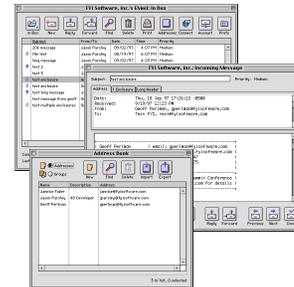
sales@foresight.com
<http://www.foresight.com/>



DataCheck is a stand-alone application that is designed to be used daily as part of a production system. After doing a quick verification of your structure file, DataCheck will open your data file and verify every record and index that exists,

REAL SOFTWARE, INC.

Email Express



Email Express is the complete internet email solution for 4th Dimension. Email Express makes adding a complete Internet email package to an existing 4D database a simple process. Because Email Express

comes complete with source code and developer documentation, customizing it is also quite simple.

Email Express ships with source code for 4D v3 and v6 in Macintosh and Windows versions. The developer documentation guides the developer through installing Email Express into their existing 4D databases and gives them a complete understanding of how it works and how they can customize it. End user documentation is included for the developer to easily incorporate into any existing database documentation.

Email Express requires AreaList Pro from Foresight Technology and PDM Internet Tools from Pacific Data Management. Demo versions of these two external packages are included allowing the developer to completely install Email Express and test it before buying these packages.

Included with Email Express is a free copy of NetMessage Express (a \$99.95 value). NetMessage Express is a complete conferencing interface that allows users to send messages in a conference format over their corporate Intranet or via the Internet. Like Email Express, NetMessage Express comes with source code and documentation to make installing it in your 4D database as easy as possible.

REAL Software, Inc.

3300 Bee Caves Rd, Suite 650-220
Austin, TX 78746

Tel 512.292.9988
Fax 512.292.6670

sales@realsoftware.com
<http://www.realsoftware.com/>



FEATURES

- ▶ Universal address book sharing e-mail addresses and groups
- ▶ Send and receive messages and enclosures inside your office LAN or anywhere in the world via the internet
- ▶ Add a custom signature, forward, reply, print, and store your messages
- ▶ Includes hooks for integrating Spellswell for 4D
- ▶ Organize and categorize e-mail

REQUIREMENTS

- ▶ 4D v3.5.X or higher and/or 4D v6
- ▶ ASG's Text Area Plus™ for NetMessage Express
- ▶ PDM's Internet Tools™

PRICING

- ▶ Price includes versions for Mac and Windows, as uncompiled databases in 4D versions 3.5.X and 6.0
- ▶ US\$295.00 (US\$319.34 in Texas) E-Mail Express
- ▶ No hassle licensing

FEATURES

- ▶ Floating Navigation Palette
- ▶ Context Sensitive Online Help
- ▶ Automatic Error Handling
- ▶ 300+ Page Online Developer Reference
- ▶ Example Databases
- ▶ Multiple Windows
- ▶ Windows Menu
- ▶ Quick Find Dialog
- ▶ Query by Formula Editor
- ▶ Import and Export Editors
- ▶ Apply Formula Editor
- ▶ User Preferences Window

REQUIREMENTS

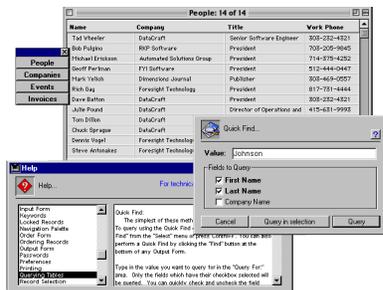
- ▶ 4th Dimension 6.0.3 or higher

PRICING

- ▶ \$349.00 No-hassle license
- ▶ Includes everything needed for cross platform deployment on both Macintosh and Windows
- ▶ 90 day money-back guarantee

DATACRAFT

Foundation



Foundation is the shell for 4th Dimension. If you can create a database in 4D's User environment, you're ready for Foundation.

Foundation standardizes your database development and

automates many necessary processes. As a result, Foundation drastically reduces development time and simplifies the task of custom database creation. Foundation's form templates and open source code enable you to get a database up and running in minutes.

A database built with Foundation can take advantage of multiple process support, import and export editors, the ability to query by formula or example, query and order by editors, Quick Find and Quick Sort dialogs, floating palettes for table selection, and user-friendly error handling. Foundation also automatically provides a custom About Box and startup message, a user preferences window, and online help. No additional programming is required for any of these features.

Even with all of these features, Foundation is small due to its well written, modular code. In addition to its ease of use, Foundation is powerful enough for even the most experienced developer. And, its high quality interface will give your databases a professional look and feel.

DataCraft

12600 West Colfax Ave, Suite C210
Lakewood, CO 80215

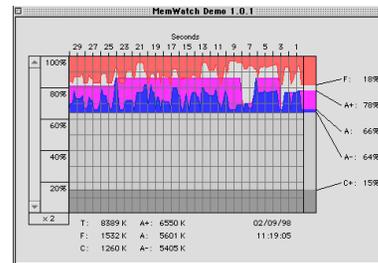
Tel 303.232.4321
Fax 303.233.4343

sales@datacraft-inc.com
<http://www.datacraft-inc.com/>

DATA**Craft**

GREEN SOFTWARE CORPORATION

MemWatch



MemWatch Main Window

MemWatch tracks all important aspects of memory: total size, utilization level, highest and lowest-used levels, and fragmentation are sampled and plotted in a rolling-history graph. As well, the current sample is broken down into actual readings and relative percentages for quick interpretation.

MemWatch plots the internal state of the data cache. The data cache total size and utilization level are precisely displayed. In combination with the memory utilization level, this information can be used to optimize the performance of a 4D Server-based system.

MemWatch can be used to stress-test an application and identify low-memory situations in advance. Instead of a sudden appearance of the famous "Out of memory" alert, MemWatch will plainly show when a low-memory situation is looming.

MemWatch gives 4D developers an under-the-hood view of how 4D uses memory. The real-time information it supplies makes MemWatch a powerful diagnostic, debugging, and optimization tool.

Green Software Corp.

105 Sunset Ave.
Sunnyvale, CA 94086

Tel 408.773.9060
Fax 408.773.9975

info@greensw.com
<http://www.greensw.com/>



FEATURES

- ▶ Displays how your application uses memory
- ▶ Plots memory fragmentation level
- ▶ Shows how much memory is permanently allocated to the data cache
- ▶ Graphs how much of the data cache is actually being used
- ▶ Assists in determining an application's memory budget
- ▶ Facilitates real-world stress-testing
- ▶ Locates memory leaks

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or NT
- ▶ 4th Dimension 3.0 or higher, or 4D Server 1.0 or higher

PRICING

- ▶ \$79.95

FEATURES

- ▶ Full featured Import/Export
- ▶ Enhanced notification dialogs
- ▶ Enhanced query editors
- ▶ Direct support for Foundation™ based applications
- ▶ Replacement security system
- ▶ Custom structure views
- ▶ Enhanced menu management and popup menus

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT
- ▶ 4th Dimension 3.5.3 or higher

PRICING

- ▶ \$349.00 Mac or Win
- ▶ \$499.00 Mac/Win Bundle

AUTOMATED SOLUTIONS GROUP

PowerTools

POWERTOOLS

PowerTools is a suite of development tools for 4th Dimension, designed to provide a group of integrated modules which extend the power of the 4th Dimension development environment.

PowerTools contains the largest collection of development tools for 4th Dimension in a single, integrated package. Each PowerTools module has been designed for easy integration into any custom application.

If your application requires data exchange, enhanced menu management, integrated bug and issue tracking, advanced user security, or a customized query interface, PowerTools is your choice!

PowerTools includes the following plug-ins:

- Bug Reporter
- HelpTools
- I/O Pack
- List Manager
- MenuPack
- MessageTools
- Padlock
- PopupPack
- QueryPack
- Set Manager
- ToolChest
- Virtual Structure

Automated Solutions Group

16742 Gothard Street, Suite 207
Huntington Beach, CA 92647

Tel 714.375.4252
Fax 714.848.0382

sales@asgsoft.com
<http://www.asgsoft.com/>



NATURAL INTELLIGENCE, INC.

QuickCode Pro



QuickCode Pro® 3.0 is the Assistant Editor for 4th Dimension. This product dramatically enhances the 4D method editing environment with the addition of a robust new feature set, which simplifies and

accelerates method writing. QuickCode Pro gives you total control via user-definable keyboard equivalents ("hot keys") for nearly every new function added to your editor window. Coding in 4th Dimension has never been this easy.

All QuickCode Pro functions are readily accessible in the editor window. For convenient access, many of these items are represented by icons in the Toolbar, many with pull down menus.

QuickCode Pro's Find and Replace feature includes a powerful set of options, such as directional searches (Find Previous and Find Next, either selected text or entire text, in multi or single open method windows), case-sensitive searches, whole-word only searches and many Replace All options. The Macros menu imports, exports, creates and calls macros for text manipulation, from either pre-defined or user-defined macros. QuickClipboards allows users to cut, copy and paste text (even Macros) from an unlimited number of clipboards, named or unnamed, with Append and Delete features. The Smart Comment button automatically comments or uncomments text, without truncating past the 80th character.

QuickCode Pro is an essential tool for 4th Dimension programmers of all levels.

Natural Intelligence, Inc.

725 Concord Avenue
Cambridge, MA 02138

Tel 617.876.4876
Fax 617.492.7425

orders@natural.com
<http://www.natural.com/>



FEATURES

- ▶ Powerful search features-directional and case-sensitive
- ▶ Import, export, create and call Macros for text manipulation
- ▶ Cut, copy and paste text from an unlimited number of clipboards
- ▶ Automatically comments or uncomments text, without truncating
- ▶ Lists each "case of" line and allows you to jump to any of those lines

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ 4th Dimension 6.0.3 or higher for the Macintosh (QCP 2.1 available for 4D 2.x)

PRICING

- ▶ Upgrades \$99
- ▶ New copies \$169.95
- ▶ New copies include QCP 2.1 & 3.0

FEATURES

- ▶ Creates fully featured list forms (output layouts) with one line of code
- ▶ Integrates easily into existing applications and shells
- ▶ Lets end-users create "views" to personalize list forms to their needs
- ▶ Lets you build customizable list-specific toolbars with help tips for each button
- ▶ Records selector, Views selector, Query, Sort, QuickSearch and Quick Sort automatic button actions

REQUIREMENTS

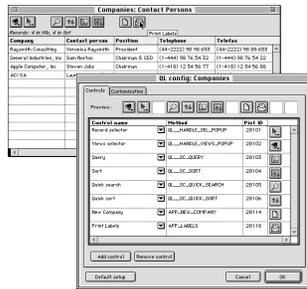
- ▶ MacOS System 7 or higher
- ▶ Windows 95 or NT3.5 or higher
- ▶ 4th Dimension v6.0.5
- ▶ AreaList Pro v6.1 or higher

PRICING

- ▶ \$495.00 per developer (Mac or Win)
- ▶ \$750.00 per developer (Mac and Win)
- ▶ Hassle-free license

ESCAPE INFORMATION SERVICES

QuickList

*A typical QuickList-aware form*

and addresses a range of issues. With 4D v6 bringing so many new features, it makes an ideal companion in migrating applications neatly and quickly. Briefly, it will let you:

- Set up or modify fully functional list forms in few minutes;
- Define toolbars instantly and drop the buttons into place graphically;
- Orchestrate code modules around QuickList-aware forms via intuitive configurator windows;
- Let users personalize your software by creating multiple field arrangements (views) for each table;
- Deal with each list form once in the entire lifecycle of your product: QuickList-aware forms see themselves from prototyping to shipping;
- Work from runtime: no need to recompile, redocument or repack your application after you change a list form.

Beside its out-of-the-box functionality with list forms, QuickList offers a chest of advanced tools including a virtual structure engine, the BLOB Manager v2 plug-in that takes BLOB-handling beyond 4D v6, inter-process communication routines and much source 4D code. All external routines supplied with QuickList can also be used independently in development projects.

Escape Information Services

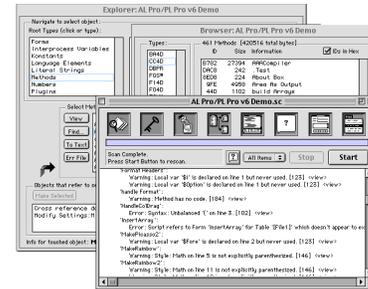
Logothetou 2
GR-54655 Thessaloniki
Greece
Tel +30.31.411.677
Fax +30.31.411.691
escape@escape.gr
<http://www.escape.gr/>

escape

QuickList is an advanced development tool for time-conscious 4D professionals. Its main function is ultra rapid creation of list forms using 4D v6 and AreaList Pro. QuickList is architected using a development framework approach

FORESIGHT TECHNOLOGY, INC.

SanityCheck



debugging sessions. SanityCheck will open and validate a 4D structure file in substantially less time than it takes to run the popular 4D Compiler. Yet in that time, SanityCheck parses and verifies every object that exists within the structure file, noting and explaining any questionable items that may be of interest to the developer.

SanityCheck scans for over 300 different types of problems and issues, including syntax, structure file damage, resource file (4DX folders), proprietary PICT processing for finding damaged pictures, resource AND object cross reference checking as well as every major object within your 4D file.

SanityCheck can even repair your structure file. Let it take care of items like password table damage and bad method pointers within Forms.

SanityCheck isn't just for solving problems once they've occurred. Use it to verify the bitmap (freemap) of your structure file and catch problems "waiting to happen".

SanityCheck also includes powerful Browser and Explorer interfaces you can use to browse the low level innards of structure file or to instantly see the code/structure information and search on XRef data.

Foresight Technology, Inc.

3118 SE Loop 820
Fort Worth, TX 76140
Tel 817.731.4444
Fax 817.293.6215
sales@foresight.com
<http://www.foresight.com/>



FEATURES

- ▶ Learn of problems before they bring down your system
- ▶ Checks database integrity
- ▶ Reports on all relationships in a file
- ▶ Detects structure file damage
- ▶ Allows you to repair you structure file
- ▶ Reports on all files and fields in a file
- ▶ Detects resource damage
- ▶ Opens and validates structure file
- ▶ Lets you choose what to scan for

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 3.1.x, Windows 95 or Windows NT
- ▶ Requires 4th Dimension 2.0 or higher

PRICING

- ▶ \$195 US/CAN
- ▶ \$215 INT'L
- ▶ No-hassle license

FEATURES

- ▶ Lowers your overall development time
- ▶ Reduces errors by automating tasks
- ▶ Eliminates the headaches of developing on different hardware
- ▶ Expands to meet your needs: source code included
- ▶ One license for both Mac and Windows versions

REQUIREMENTS

- ▶ Syncor's Design Assistant requires 4D Version 6 or later and works on the Macintosh and Windows platforms

PRICING

- ▶ SDA has an introductory price of \$40.00 for a single developer license. No shipping charges apply if you receive it via email. Syncor accepts Visa and MasterCard. Please specify your preferred platform when ordering

SYNCOR SYSTEMS, INC.

Syncor's Design Assistant™, SDA



Syncor's Design Assistant (SDA) provides over a dozen useful enhancements in a toolbar to speed your development process. Created for the developer, SDA is written in 4th Dimension® and

includes the source code. This allows the user to add functionality or modify the existing features.

Timesaving features include:

- Insert a header including method name, author, and date.
- Intelligently comment and uncomment multiple lines
- Replace all the occurrences of a search string.
- Use three more clipboards (extendible to 99 clipboards)
- Export a method or all open methods to text files
- Import a method or folder of methods
- Jump directly to any case statement from a pop-up
- Paste in any Table or Field name from a pop-up.
- Paste in the current method name, user, date and other values.
- Retile and resize open windows when using different monitors.

Syncor Systems, Inc.

25500 Hawthorne Blvd, Suite 1158
Torrance, CA 90505

Tel 310.373.8363
Fax 310.373.8613

rena@syncorsystems.com
<http://www.syncorsystems.com/>



MDG COMPUTER SERVICES, INC.

Web Server 4D/Developer



compiled for either MacOS and NT.

The database publishing is the strong point of WS4D/Developer. For complete flexibility, any HTML editor can be used to design your database forms. When changes are needed to the forms, the database does not have to be recompiled.

WS4D easily defines searches, results, tables, required fields, sorting, and records per page all from hidden HTML fields. Field formatting is easily defined from HTML. A unique feature builds HTML pop-up lists automatically from 4D data. Writing 4D code to handle next selection or previous selection of records can be time consuming, the tag named <INSERT NAVIGATION HERE> will perform this task automatically.

WS4D/Developer does not use 4D v6's built-in web server. Frames, Realm Security, sending email, bookmarking results, and no connection limits are supported.

WS4D/Developer includes all the features of WS4D/Standalone, including Virtual Domain Support, tracking and a few hundred additional features. There are over 1000 domains that are currently running WS4D, including ACI US!

MDG Computer Services, Inc.

231 Faircroft
Bartlett, IL 60103

Tel 630.497.0220
Fax 630.497.8893

sales@mdg.com
<http://www.mdg.com/>



FEATURES

- ▶ Publish 4D data with complete control
- ▶ Use any HTML Editor
- ▶ Full featured "real" web server!
- ▶ Supports Virtual Domains and tracking
- ▶ Open 4D Source Code
- ▶ Security Hooks
- ▶ Email Hooks

REQUIREMENTS

- ▶ Apple Macintosh running System 7.5 or higher
- ▶ PC running Windows NT 3.5.1 or 4.0
- ▶ ITK (or compatible TCP External)
- ▶ 4th Dimension 3.5.3/3.5.4 or v6
- ▶ 4D Compiler
- ▶ 4D Insider

PRICING

- ▶ \$695 WS4D/Developer
- ▶ \$295 WS4D/Standalone
- ▶ \$295 WS4D/CGI
- ▶ \$295 WS4D/Email-Search

FEATURES

- ▶ Jointly Produced by ACI US and the 4D Developer Community
- ▶ More than 30 Technical and Business Sessions
- ▶ Optional, Pre-Conference One-Day Classes
- ▶ Third Party Products Expo
- ▶ Valuable Conference CD
- ▶ Conference Binder Containing Session Notes

SUMMIT CONFERENCES, LLC

4D Summit Conference '98

Where do you plan to be this September 16-19?

Summit Conferences, LLC. in partnership with ACI US, Inc. is proud to announce that the next 4D Summit Conference will be held September 16-19 in Denver, Colorado at the Hyatt Regency Hotel in Denver's "Tech Center."

The event will be held at the same location as last year's successful 4D Summit. Last year over 300 4th Dimension (4D) developers and users from across the United States and other countries attended. In view of Denver's freak October '97 blizzard, we've moved it up a month and will not mention snow in the brochure this time!

Additionally, this time we'll have the hotel's entire meeting room space available so we'll be able to handle a much larger group. This expanded space will allow more developers to attend.

We have expanded the Conference to combine ACI US' traditional DevCon and last year's successful 4D Summit. The result will be a combination of information on the next version(s) of 4D along with 4D V6 information that you can use immediately. Once again, we'll have multiple breakout tracks so you can focus on the topics of specific interest to you.

Make your travel plans soon! 4D Summit '98 will be here in just a few months! Check the conference Web site <<http://www.4dsummit.com>> for up-to-date information.

Summit Conferences, LLC

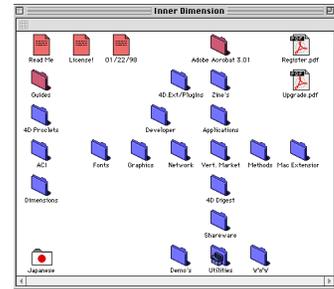
3001 Coolidge Road, Suite 401
East Lansing, MI 48823

Tel 517.333.0307
Fax 517.333.6889

<http://www.4dsummit.com/>

ALTO STRATUS, LLC

Digital Guides to 4D Programming



Since 1993 Alto Stratus have been providing the most comprehensive and up-to-date guides to 4D.

The '4D Advanced Guide' explains the inner workings of 4D, from record structures,

through index pages and address tables to the use of RAM. Understanding these undocumented processes will help you to create more efficient and faster applications. The guide covers all versions of 4D from v3 to v6. They are supplied as PDF files, indexed and printable on A4 or US letter paper.

'The Inner Dimension' expands on this covering related topics from computer security to the Y2K problem. Sample databases include ready to use code, extensions, plug-ins, demo applications of most 4D applications and tools, reviews, fonts and graphics.

The Software Developers Kit (SDK) provides monthly updates to the CD with v6 sample databases, data files, tech note index, plug-in directory, error code reference and up-to-date reviews. Subscribers receive 12 electronic updates to their CD. Recent databases include creating HTML pages and tables, exporting tagged text and importing resources.

Our guides are available from Dimensions Journal or Ajar AG in Europe. For a detailed table of contents, upgrade or sidegrade prices please contact us.

Alto Stratus LLC

830 Broadway Ave.
Winchester Bay, OR 97467

Tel 541.271.7435
Fax 541.271.6833

shush@harborside.com
<http://www.inner-dimension.com/>

FEATURES

- ▶ Indexed digital guides to 4D
- ▶ Covers all versions from v3 to v6
- ▶ Cross-platform MacOS & Win 95/NT
- ▶ Covers all skill levels
- ▶ The most comprehensive and up-to-date guides
- ▶ Free updates for 90 days

REQUIREMENTS

- ▶ MacOS 7.6.1 (or greater) or Win 95/NT
- ▶ CD ROM drive

PRICING

- ▶ 4D Advanced \$60
- ▶ The Inner Dimension' \$95
- ▶ 'The Inner Dimension' SDK \$195

FEATURES

- ▶ 130+ Page Comparison Using 45 Criteria
- ▶ Modifiable Excel Summary Spread Sheet Included
- ▶ PDF Version Included on Disk

REQUIREMENTS

- ▶ Microsoft Excel

PRICING

- ▶ \$79 plus shipping
- ▶ \$59 plus shipping for Dimensions subscribers

COMPUTERIZED PRICING SYSTEMS

Dimensions' Competitive Analysis



A 45 point comparison of 4D for Windows to Microsoft Access, Visual Basic, Visual Foxpro, Clarion for Windows, PowerBuilder Desktop, and Delphi.

Compiled by Mark Yelich, Publisher of

Dimensions Tech Journal and vertical market developer for 15+ years.

130 - 8.5" x 11" pages. Customizable Excel 5.0 comparison spreadsheet and PDF version of the report included on disk.

Evaluates these competing development systems from both technical and business viewpoints.

You can use this information to prepare successful proposals when you are competing with these popular Windows development tools.

Computerized Pricing Systems

13650 Silverton Drive
Broomfield, CO 80020

Tel 303.469.0557
Fax 303.460.0228

myelich@dimensionsmag.com
<http://www.dimensionsmag.com/dimensionsmag/>

COMPUTERIZED PRICING SYSTEMS

Dimensions Technical Journal



The Dimensions Technical Journal has been published on a bi-monthly basis since September 1991, promoting the sharing of technical and business techniques and experiences among the members

of the worldwide 4D community. It is distributed to 4D users and developers across the US and Canada as well as more than 25 other countries.

A Dimensions subscription will provide you with a regular source of technical information that supplements your 4D manuals. A typical issue contains up to 60 pages of feature articles, regular columns, tips and tricks, third party product reviews and listings, plus third party product and service advertisements.

In addition to the technical content, each issue includes articles about business techniques written by experienced 4D users and developers that will help you make your 4D based business even more successful.

With software now evolving at Internet speed, Dimensions will also keep you up to date about what ACI/ACI US and its competitors are doing about new developments such as the ODBC driver for 4D Server and Microsoft's new OLE DB/ADO database technology.

The example databases described in the articles as well as bonus articles are supplied on the optional code disk. All subscription rates include first class mail delivery.

Computerized Pricing Systems

13650 Silverton Drive
Broomfield, CO 80020

Tel 303.469.0557
Fax 303.460.0228

myelich@dimensionsmag.com
<http://www.dimensionsmag.com/dimensionsmag/>

FEATURES

- ▶ 4D Product Coverage
- ▶ Expert Insights on Technical Issues
- ▶ Third Party Product Reviews
- ▶ ACI Insider Information
- ▶ Successful Business Techniques
- ▶ Q&A columns
- ▶ Valuable Resources on Examples Disk

PRICING

- ▶ Annual Subscription Rates:
- ▶ US/Canada/Mexico w/disk \$99
- ▶ without disk \$69
- ▶ All other countries with disk \$141
- ▶ Without disk \$99

FEATURES

- ▶ Great for beginners
- ▶ Teaches all the basic skills and techniques
- ▶ Shows how to use 4D more effectively
- ▶ Includes examples of databases, programming interface, building tips, and a million record database for performance testing

REQUIREMENTS

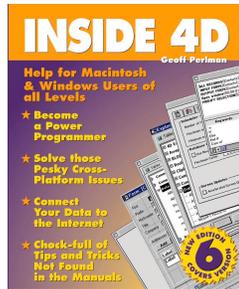
- ▶ Novice users
- ▶ For V6 users

PRICING

- ▶ US\$39.95 (US\$43.25 in Texas), CD only
- ▶ US\$59.95 (US\$64.90 in Texas), printed version and companion CD
- ▶ Shipping varies on location

REAL SOFTWARE, INC.

Inside 4D



Inside 4D v6 is the new edition of Inside 4th Dimension, the best-selling book on 4th Dimension. Inside 4D is designed for novice to intermediate users. It starts with database basics, and takes you through

building your structure, relating tables, creating forms, understanding the full power of the built-in editors, writing methods and creating a complete custom menu environment. Inside 4D even covers topics like 4D Server, 4D Compiler, 4D Insider and many popular third-party tools as well. It's also filled with hundreds of tips and tricks that will save you hours of time. There are loads of examples and a million record database you can use for performance testing. Inside 4D was written by Geoff Perlman who is the former Senior Training Manager at ACI where he taught novice to expert level courses to thousands of 4D users across the United States.

REAL Software, Inc.

3300 Bee Caves Rd, Suite 650-220
Austin, TX 78746

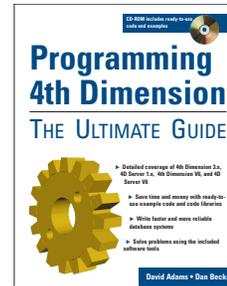
Tel 512.292.9988
Fax 512.292.6670

sales@realsoftware.com
<http://www.realsoftware.com/>

 **REAL Software, Inc.**

FORESIGHT TECHNOLOGY, INC.

Programming 4th Dimension



Programming 4th Dimension The Ultimate Guide is written for anyone interested in getting the most out of 4D. This complete 4D toolkit is composed of software demos, code, and a text of over 650

pages which gives you what you need to master ACI's 4th Dimension. Comprehensive coverage of everything from field types and relations to compiler methods and resources is accompanied by expert tips, step-by-step instructions, and real-world advice. With *Programming 4th Dimension* you receive the techniques and information you need to create efficient, reliable, and highly optimized 4th Dimension and 4D Server systems.

If you are a less experienced 4D user or programmer, you will appreciate the plain language explanations of basic computer science principles. *Programming 4th Dimension* explains concepts including data structures, caching, queries, and programming style with practical 4D examples, and without jargon. You will also benefit from the example databases and code libraries, which provide hundreds of polished, and well commented, 4D routines to examine and learn from.

If you are an experienced 4D user, you will appreciate code libraries which contain ready-to-use source code with an error manager, a distributed processing manager, a saved set manager, and a transaction manager. Over 50 cut-and-paste general utility methods will save you hours of development time.

Foresight Technology, Inc.

3118 SE Loop 820
Fort Worth, TX 76140

Tel 817.731.4444
Fax 817.293.6215

sales@foresight.com
<http://www.foresight.com/>



FEATURES

- ▶ Is a complete 4D toolkit with code and text for beginners and experts
- ▶ Contains code libraries including ready-to-use source code
- ▶ Includes documented example databases that demonstrate advanced techniques
- ▶ Provides over 50 cut-and-paste general utility methods
- ▶ Shows how to apply basic computer science principles to 4D
- ▶ Covers 4th Dimension 3.x, V6 and 4D Server 1.x, V6

REQUIREMENTS

- ▶ Apple Macintosh running System 7 or higher
- ▶ PC running Windows 95 or Windows NT
- ▶ 4th Dimension 3.x or higher or 4D Server 1.x or higher

PRICING

- ▶ \$139.00 US/CAN
- ▶ \$139.00 INT'L
- ▶ No-hassle license

Online Resources

The 4th Dimension Networked Users Group (4D NUG) provides an Internet forum for users and developers of 4th Dimension to exchange ideas and techniques, discuss problems and solutions, swap code fragments, announce 4D jobs and products, and basically help each other out.

The 4D Mailing List is the primary vehicle for communication and support among 4D netizens worldwide. The 4D Community Mailing List has a community square focus and covers discussions of interest to the 4D developer community such as running a business, the bidding process, documentation, and copyrights.

Please go to the 4D NUG Web site for more information on these valuable resources.

- 4D Networked Users Group (NUG)**..... <http://www.foresight.com/4d-nug/>
- 4D Summit Conference**..... <http://www.4dsummit.com/>
- 4D Zine**..... <http://www.fourdzine.deepskytech.com/>
- ACI US, Inc.** <http://www.acius.com/>
- Dimensions Technical Journal** <http://www.dimensionsmag.com/dimensionsmag/>
- InfoService** <http://www.infoservice.com/>
- MonkeyWërks** <http://www.pdm-inc.com/monkeywerks/monkey.html>

ACI US, INC.

ACI University Courses



Take advantage of the unlimited possibilities of the 4th Dimension product line

Whether you use 4D as a stand-alone application or you create client/server work group solutions, there is always more to learn that will enhance your projects.

To help you become more efficient with the 4D environment, ACI US offers training courses to users of all levels. Our classes are designed to help you master 4th Dimension quickly and easily. In a few days, you will be able to design better database applications and improve your existing databases. We will help you become proficient with 4D's database engine, design tools and programming language. Whether you are new to 4D or have been using it for some time, our classes can dramatically reduce learning time, thus making you more productive immediately.

Through lectures, demonstrations, hands-on experience and question-and-answer sessions, ACI University courses maximize your learning experience. Take advantage of these opportunities to expand your knowledge of 4D and better meet the business needs of your customers.

- ▶ Expert 4D trainers
- ▶ Reference manuals
- ▶ Held in convenient locations throughout the United States
- ▶ Customized on-site courses to minimize travel costs and time away from work
- ▶ Pre-written code samples that can be immediately transferred to your 4D applications

To register for classes , please call ACI US Training Services at 408-252-4444 extension 252.

Class schedules are posted on our web site or may be faxed upon request.

ACI US, Inc.

20883 Stevens Creek Boulevard
Cupertino, CA 95014

Tel 408.252.4444
Fax 408.252.0831

<http://www.acius.com/>



Partner Program



Through the Partner Program, ACI US supports registered third-party developers (Partners) with the tools to produce and deliver 4D-based solutions, to take advantage of new market opportunities and to help grow their businesses. Whether you are a commercial software producer or an in-house developer, you can benefit as a program member. ACI US designed the Partner Program with several levels of membership to suit the business and technical support needs of different types of developers.

As a registered Partner, you can rely on timely access to programming tools and resources that facilitate technical innovation. You can count on the latest product information and marketing tools that help sell solutions for targeted markets. You have open lines of communication with ACI, customers and other developers.

- ▶ Technical support
- ▶ Product and training discounts
- ▶ Leads Referral program
- ▶ *Relations* newsletter and Partner CD
- ▶ ACI Web site, e-mail list server and exclusive Partner FTP site
- ▶ Marketing and Sales programs and services to help you grow your business
- ▶ End-user mail list service
- ▶ Co-marketing opportunities

By providing information tools, encouraging networking within the 4D community and supporting business outreach, the Partner Program is a comprehensive resource that can help ensure your company's success with 4D.

For more information about joining the Partner Program, please contact ACI US Sales at 800.881.3466 or Customer Service at 408.252.4444 extension 252.

ACI US, Inc.
20883 Stevens Creek Boulevard
Cupertino, CA 95014

Tel 408.252.4444
Fax 408.252.0831

<http://www.acius.com/>

