

CLARION

FOR WINDOWS™

Create Database Applications for
Windows® 3.x, Windows 95™ and Windows NT™.

TopSpeed
CORPORATION

Contents

What Reviewers Say

- **“A must have for developers”**
InfoWorld, 10/24/94
- **“...solid and impressive...”**
Data Based Advisor, February '95
- **“It is arguably the best Windows development tool on the market today.”**
PC Techniques, June-July '95
- **“...TopSpeed Corp has a winner here...”**
DBMS, July '95
- **“...an outstanding tool...”**
PC Week, 6/26/95
- **“...it's the most efficient database development package I've ever used.”**
Windows Magazine, August '95
- **“It's a complete application development package whose capabilities cover the spectrum from instant gratification to complete customization.”**
Windows Tech Journal, September '95

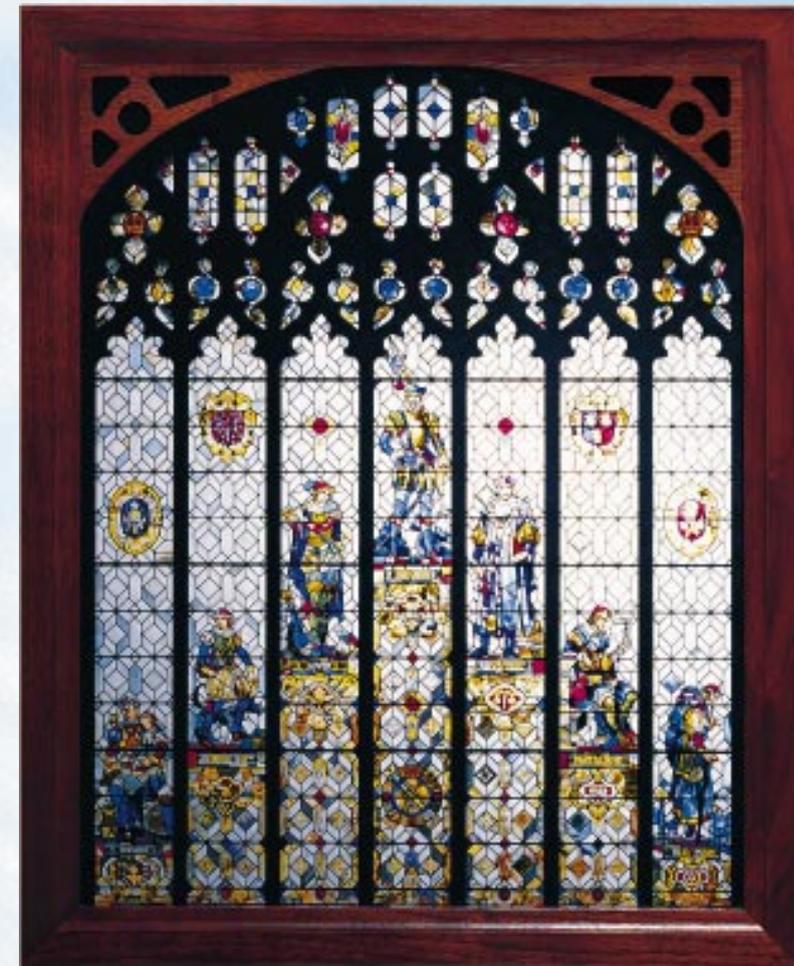
**These are quotes from product reviews of Clarion for Windows 1.0. This is a newer version—it's even better!*

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CLARION

FOR WINDOWS™

Rapid Application Development Environment

CLARION

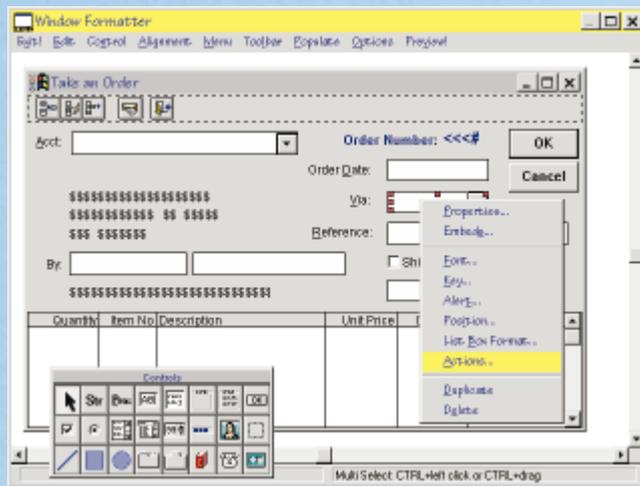
FOR WINDOWS™

Clarion for Windows is a Rapid Application Development system for Windows featuring both 16 and 32 bit compilers. Clarion's replaceable database drivers and full-featured data dictionary support powerful database applications for either local or Client/Server environments. The Clarion language, the only true Fourth Generation Language in a Windows RAD tool, is easy to master, and promotes easy code maintenance.

The Clarion for Windows Application Generator creates powerful, fully customizable applications quickly, through the use of templates. Clarion Templates provide functionality equivalent to the base object classes in object oriented programming environments; they contain pre-written data and code. Clarion templates, in addition, include another design-time layer consisting of a user interface, enabling the Clarion developer to customize their properties and functionality without knowing anything about underlying code. Clarion programmers can easily create their own templates. Clarion developers enjoy the benefit of high code reusability, usually associated with OOP development tools, yet also enjoy the gentler learning curve of a traditional structured programming language with a seamless, built-in database grammar.

As a development environment, Clarion Templates distinguish Clarion for Windows from other RAD tools by the depth of functionality contained within the template. Other RAD tools feature visual design tools which allow the developer to place a user interface control, such as a button. Yet the developer must write code to implement the behavior required when the end user, for example, presses the button. Clarion templates contain both the user interface control and the executable code to make that control a complete business solution, such as a file lookup or a record locator. In effect, Clarion for Windows is a RAD's RAD. It requires significantly less coding than other RAD tools when used to create business-oriented applications.

Clarion for Windows also distinguishes itself because its links between the data dictionary and application generator are dynamic. Other tools that rely on a database wizard (or app wizard) work only one way—the developer sets up the application, but cannot call the wizard to change an option without starting the project over. With Clarion, you can change



Any RAD tool can let you place a button using visual design tools. Only Clarion places a complete business solution—for example, a combo box that automatically adds a new child file if the end user types in a new value.

an option in the data dictionary any time. For its entire life cycle, a Clarion application is automatically updated whenever its underlying data dictionary changes. In addition to Referential Integrity Constraints and Field Validity rules, the data dictionary stores many additional options that increase your productivity. If you tend to produce many applications for the same set of tables, you save time by pre-formatting controls on a field-by-field basis, for example, specifying that applications should include a text control with a specific font size, style and color, for a specific field.

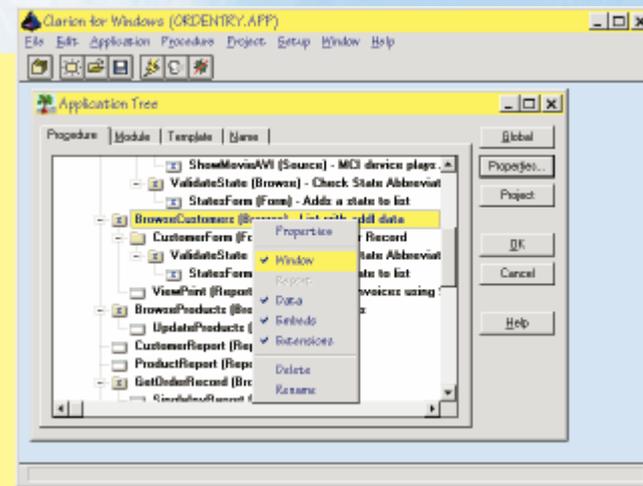
In addition to the data dictionary, Clarion also includes wizards which can build your applications quickly. Create a data dictionary, with any number of files, then run the Application Wizard. The Application Wizard creates browses, forms and reports appropriate to your file structure. Not just simple listbox dialogs—you get multiple-order browses selectable by tab. Synchronized parent-child dialogs with a form for the parent on one tab, and a listbox displaying related child records on another. As a productivity aid, Clarion for Windows virtually delivers push-button programming. You can import file definitions for existing data files, specify the relationships, call the Application Wizard, then press the Make button. You can create complete applications literally within minutes.

Applications developed with Clarion for Windows are small (typically less than 1MB including database drivers), fast, stable, and may be distributed royalty free.

Clarion for Windows can do three things for you: help you work better; help you work faster; help you work smarter.

No matter what version of Windows you develop for—Windows 3.x, Windows 95, or Windows NT—Clarion for Windows increases your productivity, allows you to deliver the same app to each platform while maintaining a single project, and helps you produce small, fast, royalty-free, native executables.

A logical procedure call tree helps organize your project. You can access windows, reports, or embedded source code points directly from the tree. When you create a new procedure, it automatically appears on the tree as a "To Do" item.



- ✓ **Visual Design Tools:** the Window Formatter supports standard window and .VBX controls. Newer controls such as property sheets, tool tips, and progress controls are backwards compatible to Windows 3.x. The Report Formatter supports preview, multiple grouping, and multiple details. No additional runtime modules or external report writers are necessary.
- ✓ **Application Generator/Templates:** tried and true pre-written code, an intelligent interface for customizing it, links to the database dictionary, and a smart code generator that generates only the Clarion language code needed to support the functionality you select. The Application Tree—a logical procedure call tree—is the center of the Clarion for Windows development environment. It provides a hierarchical list of the procedures that make up your program and both describes and organizes your project.
- ✓ **Database Dictionary and Drivers:** the Database Dictionary organizes your application's data files, their relationships, referential integrity constraints, validity checking rules, even pre-formatting controls referencing database fields. Changes made to the dictionary update the application. The drivers are compact dynamic link libraries; for a given file format, you ship the .DLL (typically 100K) with the application. The drivers (both 16 and 32-bit) that come with the product include ASCII, BASIC (comma or tab-delimited), Btrieve, Clarion, Clipper, dBase III and IV, FoxPro, DOS (binary), ODBC, and TopSpeed. SQL drivers available separately.

- ✓ **Reports:** built in programmable report writer and report template creates reports which are compiled into the executable. Provides complete control over the Windows printer device settings.
- ✓ **Clarion Language and Template Language:** Clarion is a structured, compact, expressive fourth generation language. It's easy to read, easy to write, and easy to learn. The Clarion Template Language is a meta-set of the Clarion language. It controls the development environment, gathers design specifications, and generates source code. In addition to using the standard templates, you can write your own templates, or purchase additional templates from third party vendors.
- ✓ **Compiler/Project System:** both compilers (16 and 32-bit) produce small, fast, royalty-free executables. Most Clarion applications fit on a single high density disk (database excluded). They run comfortably on systems meeting the minimum recommended requirements for the version of Windows you set as the target. And as compiled executables, Clarion apps execute literally tens of times faster than interpreted applications.
- ✓ **Debugger:** fully Windows-hosted, full featured debuggers (separate debuggers for 16 and 32-bit) include support for conditional breakpoints and watchpoints, and a spy window for Windows messages.

System Requirements

You can run the Development Environment on any system meeting the minimum system requirements for Microsoft Windows 3.x, Microsoft Windows 95, or Microsoft Windows NT 3.51. For better performance, we suggest your system have at least 8MB RAM, 12 MB RAM, or 16 MB RAM for these respective operating systems.

You'll also need between 8 and 20MB free hard disk space, depending on the Setup options you select.

The applications you develop will run comfortably on even those machines meeting only the minimum requirements for these operating systems.

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