

HEWLETT-PACKARD

The Hewlett-Packard NewWave Developer Products

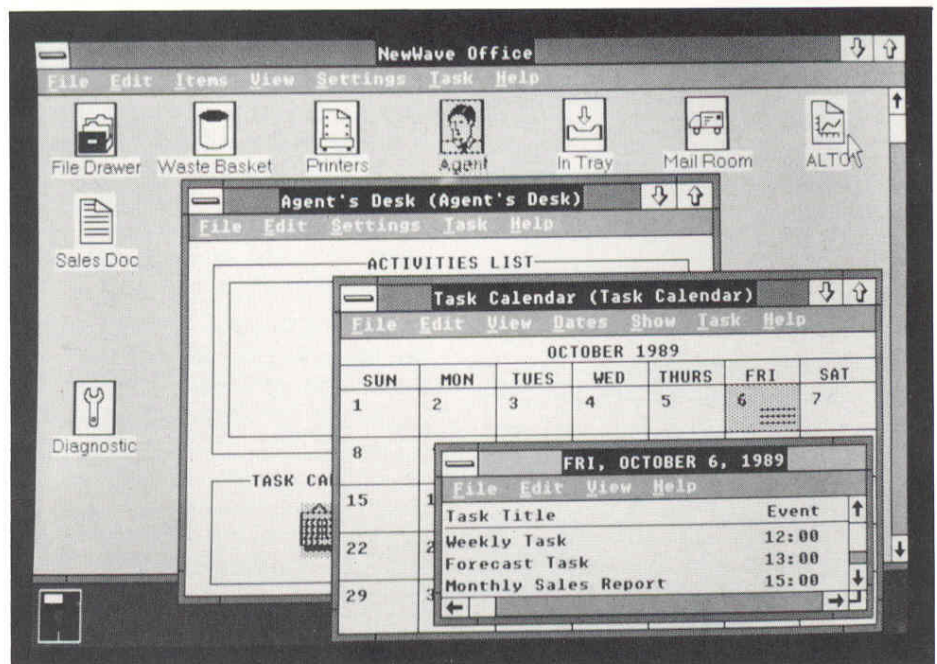
Welcome to the HP NewWave Environment

What is the HP NewWave Environment?

The Hewlett-Packard NewWave environment is an advanced application environment providing a single window, or view, into an organization's entire network of information and computing resources. This environment is based upon Microsoft® Windows 2.0, and is designed to allow the end-user to focus on completing tasks rather than learning and using individual applications. We have created the HP NewWave as an open environment. It presents a major opportunity for you, the developer, to deliver end-user benefits to your customers when you develop your applications for the HP NewWave environment.

The HP NewWave is built on the industry standards of MS®-DOS and Microsoft Windows 2.0, and it delivers a consistent, graphic interface across all applications. The iconic representation of items in the environment makes it significantly easier for end-users to learn and use. As a developer, you can provide this same interface with your applications, presenting your users with a single, consistent approach.

Because applications are integrated, seamlessly, across the environment, people working in the HP NewWave environment move quickly and easily from one application to another. In addition, the HP NewWave environment provides for seamless integration of data, across applications, throughout the environment.



The HP NewWave office includes an Agent facility that works on behalf of the user to perform tasks within and across applications.

Complex data is treated as a single object and is managed automatically by the Object Management Facility (OMF). The OMF enables end-users to link, combine, or manipulate different data forms such as text, spreadsheets, graphics, scanned images, and voice. To the end-user, these different objects are represented as "icons." Creating a compound object is simple: using a mouse, the end-user moves one icon on top of another. Compound objects, also called "multi-media documents," can be electronically mailed to other HP NewWave environment users in the organization, via an HP 3000 and Business System Plus.

As a developer writing for the HP NewWave environment, you can deliver, with your applications, all the power of a distributed computing environment. Your PC-based applications can work with the HP 3000 to tightly link HP PCs, and IBM

PCs and mainframes. As a result of all this integration, the end-user gains access to communication and information resources across both departmental and corporate levels.

Features for Developers

As a developer, you can see that this system was created with you in mind. The Hewlett-Packard NewWave environment provides:

- The Object Management Facility (OMF) for application and data integration, and creation of compound objects;
- A foundation built upon industry standards, MS-DOS and Microsoft Windows 2.0 which deliver:
 - graphic user interface
 - hardware independence;
- Advanced technologies like Agents;

- System services for use by Developers:
 - Context-sensitive Help facility
 - Output spooler
 - Computer-Based Training (CBT);
- Integration with HP 3000 and Business System Plus:
 - HP DeskManager
 - NewWave Mail
 - Resource Sharing
 - Information Access;
- Encapsulation tools;
- Well-defined design rules.

The Developer Release

The Developer Release is the first-phase of the HP NewWave environment, the software platform for HP's next generation Integrated Business System. This release allows developers, like you, to have immediate access to the HP NewWave environment. The products offered in the Developer Release are designed to facilitate the development of new applications and the integration of existing applications with the HP NewWave environment.

The Developer Products in Detail

There are three key products designed to enable developers to begin immediate design work on new applications, or to integrate their current applications with the HP NewWave architecture: The Developer Kit, Developer Training, and Technical Support.

The Developer Kit

The HP NewWave Developer Kit contains all the HP components needed to write applications for this new environment. It includes the HP NewWave environment software, software development tools, and documentation.

The HP NewWave Environment Software and Software Development Tools

Inside the kit, there will be development versions of the environment, services, and software libraries, plus development tools and samples of application source code. Developers will receive updates, at no extra charge, until the end-user release of the HP NewWave environment is available. When the end-user release is available, developers will receive a complete and final copy of both software and documentation. After that, updates may be obtained from HP for a nominal charge.

Documentation

Software documentation in the HP NewWave Developer Kit includes the following materials:

- *Programmer Orientation Guide* — Presents a conceptual overview of the environment and user interface, with emphasis on techniques for writing programs in the HP NewWave environment. It describes the office window, object management facility (OMF), the application program interface (API), computer-based training (CBT), and the Help facility.

- *Programmer Reference Manual* — A list of all commands, messages, etc., required to create HP NewWave environment applications or to encapsulate existing MS-DOS applications into the HP NewWave environment. Appendices include a Utilities Manual and a set of Data Interchange Standards, specifications describing the storage of various types of data within the HP NewWave environment.
- *User Interface Guidelines* — Sets forth the design rules for the HP NewWave environment external user interface. It defines how software applications should appear to the user.
- *Writer's Style Guide* — Provides guidelines to documentation writers and Help facility developers on how to approach the writing task. Includes a definition of what is included in each document and how they work together. Appropriate writing style and terminology will be introduced.

HP NewWave Developer Training

This is an invaluable course for software developers who will be writing applications under the HP NewWave environment. Although the HP NewWave environment is based upon Microsoft Windows 2.0, it consists of many extensions to Windows. This course provides the concepts and information on both Microsoft Windows 2.0 and those extensions needed by any HP NewWave application developer.

Developers will become versed in the fundamental Microsoft Windows 2.0 structure and programming techniques. They will learn about the Object Management Facility (OMF) and how it handles object storage and manipulation. Attention will also be paid to: the Application Program Interface (API), which provides the "hooks" for Agents; the built-in user Help Facility; and Computer-Based Training (CBT).

All classroom participants will write a sample Windows program and then build an HP NewWave environment application by adding components to the program. Upon completion of this course, the developer will understand the benefits of the HP NewWave programming environment and will be able to use all Microsoft Windows 2.0 and HP NewWave environment programming documentation. Graduates will be able to design and begin development of HP NewWave environment applications, as well as integrate current MS-DOS applications into the HP NewWave environment.

The classroom course is five days in length and consists of 60% lecture and 40% hands-on training.

Prerequisites for HP NewWave Training are:

- Programming experience in the C language
- Practical experience with MS-DOS
- Completion of the HP NewWave Developer Training pre-study material
- Purchase of the HP NewWave Developer Kit.

HP NewWave Technical Support

The support product for developers provides for three months of unlimited support from the National Response Center. Developers must complete the classroom training course before support will be provided. Developers must contact the local AEO to start the support contract. Consulting is always available at T&M (time and materials) rates, any time after the developer has completed training.

The HP NewWave Environment Today . . .

You can develop applications for a business environment that allows an organization to make faster, higher-quality decisions and enjoy improved communications. These applications can give each end-user access to information and the ability to utilize that information more easily than ever before.

The HP NewWave environment offers some remarkable benefits to your customers. For a start, think about the savings just in the speed with which a user can learn your application and the benefits of being part of a consistent environment. With one consistent and more natural interface across all applications, commands and operations need not be learned over and over. Add to that the support of the Help facility, CBT, the advantages of the Object Management Facility, and Agents, and we think you will agree that the HP NewWave environment is very appealing . . . to you and your customers.

Hardware and Software Requirements

Hardware Requirements for Developers:

- HP Vectra ES (ES/12 recommended for developers)
- 2 MByte EMS memory (LIM 4.0 Specification)
- 20 MByte hard disc drive, minimum (40 MByte hard disc drive is recommended for developers)
- High density (1.2 MB) flexible disc drive(s)
- Monochrome monitor, Multimode (EGA recommended for developers)
- Mouse
- Optional: Additional serial port for debug terminal

Software Requirements for Developers:

- MS-DOS 3.2
- Microsoft Windows 2.0
- Microsoft Windows 2.0 Software Development Kit
- Microsoft C Compiler (current version)
- Optional: Microsoft Macro Assembler (current version)

Ordering Information

Product: HP NewWave Developer Kit
Shipping Media: 5¼-inch high-density (1.2 MB discs)
Part Number: D1701A

Product: HP NewWave Developer Training
Prerequisite: Purchase of HP NewWave Developer Kit
Part Number: D1702A

Product: HP NewWave Technical Support
Prerequisite: Completion of HP NewWave Developer Training
Part Number: D1701A + H00

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