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## Product Update

### Basic-2C Product Status

Basic-2C is now supported in the following environments:

#### Multi-User Xenix Systems

ALTOS 886\*  
ALTOS 1086  
ALTOS 2086  
WANG APC

#### Networked MS-DOS Systems

NORTH STAR DEMENSION SERIES  
NOVELL NETWORKING  
NOVELL E/TI NETWORKING  
(Texas Instruments)  
SPERRY USERNET  
TELEVIDEO PERSONAL MINI  
NOVELL ADVANCED NETWARE  
SYSTEMS

#### Single User MS-DOS Systems

AT&T 6300	EPSON EQUITY III	MULTITECH ACCEL 700
AT&T 6300 PLUS	HP VECTRA	MULTITECH ACCEL 900
COMMODORE PC-10	IBM-PC	NCR PC6
COMMODORE PC-20	IBM-PC-XT	SPERRY PC
COMPAQ DESKPRO	IBM-XT-AT	SPERRY PC IT
COMPAQ PLUS	IBM-XT MODEL 286	TANDY 3000
COMPAQ PORTABLE	ITT XTRA XP	TELEVIDEO TELE-PC
COMPAQ 286 DESKPRO	KAYPRO 1610	TELEVIDEO TELE-XT
COMPAQ 286 PORTABLE	KAYPRO PC	TI BUSINESS PRO
COMPAQ 386 DESKPRO	KAYPRO PC10	TOSHIBA T3100
COMPUTERLAND PC	KAYPRO PC286	WANG PC
DEC VAXMATE	LEADING EDGE PC (D)	WANG APC
EPSON EQUITY I	MAI/BASIC 4 PC	WYSE PC
EPSON EQUITY II	MULTITECH LAN 500	ZENITH 150 SERIES

\*Does not support Wang 2200 format diskettes

### 3.5" Security Diskettes - Status

With the advent of laptop computers, we have had several requests to support 3.5" Gold Key security diskettes under Basic-2C. We have received a commitment from our security diskette supplier to manufacture a machine that can create these diskettes. They estimate delivery in a "few months". This means that although our support of 3.5" diskettes is coming, it is down the road a bit. In the meantime we will support the 5 1/4" diskettes that are available on our Basic-2C approved laptops.



### Basic-2C Release II Demonstrator RunTimes

With the advent of the Basic-2C Release II, we are pleased to announce the availability of Release II DEMONSTRATOR RunTime Packages. The new DEMONSTRATOR RTP is ideal for use with \$DEMO, the powerful, self-demonstrating feature of Basic-2C Release II.

Each DEMONSTRATOR RTP contains a fully functional Release II RunTime Program, (non-interpretive) that allows 40 accesses to Basic-2C software.

When used in conjunction with \$DEMO, software developers can create automated demonstrations of live Basic-2C application software, and then demonstrate this software to prospective clients where a personal demonstration is not possible.

Because \$DEMO incorporates script files, a Basic-2C software application can literally sell itself. Developers can create informational text which is automatically displayed when the space bar is struck. Data can be filled in by the script file as well, to produce the semblance of a live system.

DEMONSTRATOR RTP's can increase your systems sales dramatically by allowing you to send out copies of your demonstration inexpensively, and without loss of program integrity. In fact, an entire package of 25 DEMONSTRATOR RTP's can be purchased for less than the cost of a single RunTime Package.

Basic-2C Release II DEMONSTRATOR RTP's can be ordered in packages of 25 by phone, or by completing a Basic-2C General Order Form. Versions are available for the MS-DOS Wang and IBM PC's and compatibles.

For more information regarding DEMONSTRATOR RTP's, contact Niakwa at (312) 634-8700.

### Basic-2 Conversion Service Available

E.F. Paynter & Associates, Inc. (EFP), a Basic-2C distributor in Indianapolis, Indiana has announced a new training and conversion service for Wang Basic-2 users who wish to convert to Basic-2C. EFP has installed Basic-2C on standalone PC's from Wang, IBM, Compaq, Leading Edge, and Sperry and Novell networks with a mix of up to 20 IBM, Compaq and Epson PC's. Recently EFP served as a beta test site for Release II.

If you want to convert your Wang 2200 software to Basic-2C and do not have the personnel or the time, EFP will do the conversion for you at your site or theirs. If you would like to know more about using Basic-2C as a development tool, EFP will develop a training package for your company and present it at your site. If you do not know as much as you would like about your current software - how does it work? can it be faster? can it be improved? - EFP will come to your site, analyze your current systems and explain what you can do or what they can do for you.

For complete information, contact:  
Ed Paynter  
E.F. Paynter & Associates, Inc.  
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317/257-7561

### Basic-2C Questions and Answers

- Q.** The new Basic-2C interpretive RunTime Program works great for developing and maintaining application code with diskimage files. Is there any method of loading and modifying stand-alone. OBJ program files?
- A.** Yes! Standalone OBJ files can be loaded from Immediate Mode by using the LOAD BOOT command. The modified version can then be re-saved as a stand-alone .OBJ file by using the SAVE BOOT command. Refer to the Language Reference Guide for operational details regarding the LOAD BOOT / SAVE BOOT commands.
- Q.** When upgrading an end-user to Release II of Basic-2C, why does the interpretive RunTime Program fail to pass security with the message: "Interpreter not Enabled"?
- A.** In order to enable the interpretive RunTime Program on the end-user's system, the special file ENABLED needs to be installed on the end-user's hard disk. The ENABLED file is located on the Development Package diskette in the /BASIC2C directory. This file may be copied from your system onto a diskette for installation at the end-user site, or may be installed directly from your Development Package diskette.

- Q.** If I install the ENABLED file on an end-user system, does that automatically enable the interpretive RunTime for ALL applications on that system?
- A.** Installing the ENABLED file in the end-user's /BASIC2C directory DOES enable the interpretive RunTime for all applications. However, the ENABLED file may also be installed solely in the current directory of just specific applications. This allows the interpretive RunTime Program to be used with some applications while preventing its use with other applications.
- Q.** When executing the Release II Multi-user Novell RunTime Program on a Novell network using Advanced Netware 2.0, does each workstation still require a diskette drive in order to pass security?
- A.** No! Using the new Multi-user Novell RunTime on a network using Advanced Netware 1.0 or greater, only one workstation in the network requires a diskette drive to pass security. Once the Gold Key security check has been passed by the first workstation, other users on the network will not be required to pass the Gold Key security check.  
*Note:* The first user to pass the Gold Key security check must be logged in as supervisor.

### Magna Cartridge 10 Megabyte Removable for APC/Xenix

The long awaited 10 megabyte removable disk cartridge backup system for the Wang APC/Xenix has finally arrived. This is a product of Magna Computer Corporation (Manchester, New Hampshire, 603/622-3699. Telex: 857390 [Magna]). Niakwa tested their preliminary version with the following results:

The software sent by Magna consisted of an MS-DOS diskette containing a program which needs to be run under MS-DOS to format the removable cartridge in a special Xenix format. The format program is called MAGPART.EXE.

We found installation on the APC-Xenix to be very simple. Only four Xenix commands (mknod and chmod commands) were required to set up the Xenix driver in the Xenix kernel.

Backups using a standard blocking factor of 16 completed 9 megabytes of data in approximately 9 minutes (1 megabyte/minute). The following restore completed in approximately 8 minutes.

*Note:* The formatted 10 megabyte cartridge must be in the Magna drive at Xenix boot time.

### Allow 5-7 Days on Basic-2C Orders

Niakwa's standard delivery policy for Basic-2C orders has always been one week. We have strived to process all orders as quickly as possible in the past and most orders received have been processed within 24 hours. As we add new Basic-2C licensees, announce new RunTime Packages and port Basic-2C to new systems, it becomes more difficult to process all orders this quickly. Please allow 5-7 days delivery on all Basic-2C orders in the future.

### Altos 686/886 Status

The Altos 886 is now approved for use with Basic-2C. We expect the 686 to be approved in the very near future.

### Altos Software Requirements for Development Systems

If you are planning to setup and execute Basic-2C software in a development environment on an Altos system, specific Altos operating system software is required, as follows:

#### Altos 1086/2086

Altos Xenix Development Sys. - version 3.3a or higher  
Altos Xenix RunTime System - version 3.3a  
Altos Xenix Unlinked Kernel - version 3.3a  
(must match version of Xenix RunTime)

#### Altos 886

Altos Xenix Development System - version 3.3a or higher  
Altos Xenix RunTime System - version 3.2e  
Altos Xenix Unlinked Kernel - version 3.2e (must match version of Xenix RunTime)

## Newly Approved Compatibles

The following 2 machines have been tested and approved for use with the IBM & Approved Compatibles version of Basic-2C software:

### 1. Toshiba T3100

This machine is the first LapTop computer we have had the opportunity to evaluate, and it passed all of our compatibility tests. The machine operates with an 80286 microprocessor running at 8MHz. It has a 10MB hard disk and 3½" floppy drive is standard. It also had an auxiliary 5¼" 360k diskette drive which is required for use with Basic-2C. Its performance indicated that it is comparable in speed to the IBM AT running at 8MHz.

### 2. HP Vectra

Back in April we reported that the HP Vectra was evaluated, and that it passed all of our tests except one: we could not format a diskette in Wang 2200 format. We thought that the problem existed in the HP Vectra BIOS, and reported that we would look at the machine again in the future. Well, we have looked at it again and it passed all of our compatibility tests. It uses an 80286 microprocessor running at 8MHz, and our results indicate that it is one of the fastest machines we have looked at to date. Be sure to get BIOS version A.01.05. Earlier BIOS versions (A.01.02 in particular) will fail to format 2200 diskettes.

## Basic-2C Program Changes to Sort-4 Utilities

One of our Licensees, Mr. Steve Badgley, Project Manager for Sys-Dyn Corporation in Morristown, New Jersey, has graciously allowed Niakwa to make available the program code changes he has instituted to the SORT-4 Utilities to make them run under Basic-2C. There are 3 steps involved in these changes:

1. Open a program file of 20 sectors in the same diskimage file as the SORT-4 utilities, and call it "OVERLAY"
2. Create a batch file called "SORT4.BAT" in the BASIC2C directory.
3. Modify the 4 indicated SORT.4 programs.

The sort generates the code modules as before, but now it moves each module to OVERLAY, drops out to MS-DOS using \$SHELL, compiles OVERLAY, returns to Basic-2C, loads OVERLAY, and proceeds with the sort. This code has been successfully used on Tag, Key, and Full Record sorts, as well as a few hybrids, with no trouble.

By using these code changes preceded by "REM \$ PC" the code is still backwardly compatible to Wang 2200 BASIC-2.

Again, our thanks to Steve at Sys-Dyn for making these code changes available to all of our Licensees.

NOTE: This utility was not tested nor is it supported by Niakwa. Contact Niakwa for a copy of the source code for these changes.

## REVIEW OF COMPUTER CONCEPTS PC2200

We have recently completed an evaluation of Computer Concepts' PC2200 terminal emulation and file transfer utility. The 2200 terminal emulation package runs on any IBM PC, XT, AT or compatible, and supports both monochrome and color monitors. The file transfer utility is provided in 2200 ASCII source code format for transferral to a 2200 partition of at least 20K size.

The speed of the terminal emulation package is truly impressive. PC2200 was tested at 19,200 baud on a standard 4.77 Mhz XT clone running on a color monitor connected to a Wang 2236 MXD terminal multiplexer. We noted that a standard Wang terminal cable worked fine — the special "PC" terminal cable was not required. It was immediately obvious that the display and scrolling speeds were at least as fast as a Wang 2336 terminal with no loss of characters or other unexpected results. We confirmed the scrolling time of the PC2200 system is indeed 25% faster than the Wang 2336DE terminal. All standard 2336DW features are supported including PRINT SCREEN and INPUT SCREEN. Additionally, the PC2200 emulation provides for redirection of the /204 printer channel to any DOS filespec and the reading of an ASCII DOS filespec as if the data were being keyed from the keyboard. PC2200 has also defined new HEX(02 . . . ) sequences to provide full control of the color monitor and capability to save up to four screens for instant recall.

The file transfer utility was especially impressive. Niakwa vendors who find themselves having to support both 2200 and BASIC-2C systems will find their task much simpler when using this product. The utility provides for file transfer in either 2200 to PC or PC to 2200 directions and will even format, read and write 2275 diskettes. The syntax of the prompts will be familiar to the 2200 programmer being in the form of:

`COPYT/Dxx,(beg, end) TO T/DOS filespec, (beg) and  
MOVE T/Dxx,"FILENAME(s)" TO T/DOS filespec,[()].`

The utility allows the user to create diskimage files on the PC with a SCRATCH DISK command emulation. The FILENAME parameter in the MOVE command recognizes the '\*' and '?' as wildcards so that multiple files in a family may be moved. This is the first utility we have seen which will allow a selected few files from a 2200 disk surface to be moved to an existing DOS BASIC-2C diskimage without having to erase or scratch the existing DOS diskimage. The file transfer utility closely emulates the WANG 2200 MOVE logic with the additional feature of wildcard logic.

The PC2200 file transfer utility achieved the fastest throughput speeds we have seen. We observed speeds of 75K bytes per minute in the 2200 to PC direction and 22K bytes per minute in the PC to 2200 direction. Computer Concepts claims even faster speeds can be achieved on AT and turbo XT speed machines — especially when the terminal emulation is connected to a 2236 MXE controller. The PC to 2200 speed on a 2236 MXE is in the 70K bytes per minute range. Data compression is used, so throughput speeds will be data dependent — the test timings were averages of several runs of mixed data and program files.

In summary, the PC2200 product with its file transfer utility is a well designed product providing a much needed tool for our licensees who must support both 2200 and BASIC-2C systems.

For more information contact:

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