



No. 21 February 1, 1990



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## Basic-2C Release III For Intel XENIX/UNIX Goes to Market

Niakwa is pleased to announce the immediate availability of Basic-2C Release III on Intel XENIX/UNIX platforms. Release III features over 60 instruction set enhancements, expanded user partitions size, the ability to make external calls to the native environment. Niakwa is releasing two separate RunTime Packages for XENIX/UNIX: Basic-2C 286 RunTime Package and Basic-2C 386 RunTime Package.

Please refer to the table illustrating the release dates for all the Basic-2C RunTime Packages operating under XENIX/UNIX.

Operating System	Hardware	Release Date	RTP Version
SCO XENIX V 286 and 386	Intel 80286/80386	December 18, 1989	286
* SCO System V/386 (UNIX)	Intel 80386	December 18, 1989	286 *
Wang XENIX 3 or XENIX V	Wang APC	December 18, 1989	286
Altos XENIX V	Altos 2000	December 18, 1989	286
Altos XENIX 3.4b	Altos 1086, 2086, 3086	December 18, 1989	286
Altos XENIX 3.2f	Altos 686, 886	December 18, 1989	286
Altos System V (UNIX)	Altos 500, 600, 1000, 2000	January 19, 1990	386
SCO System V/386 (UNIX)	Intel 80386	April 1, 1990	386

\*The 286 version of Release III is intended to operate under SCO System V/386. However, a bug in the current SCO System V/386 implementation causes the RunTime to fail. SCO has been advised of this problem and a corrected version of SCO System V/386 is expected shortly. The 386 version of Basic-2C (available April 1, 1990) is not affected by this problem.

# XENIX/UNIX Release III

## BESDK Considerations

With the introduction of Release III, Niakwa is now providing the Basic-2C External Subroutine Development Kit (BESDK) with all Release III Development Packages being shipped. The XENIX/UNIX Release of Basic-2C provide external support of the following languages: Microsoft C and Microsoft Macro Assembler.

The MS-DOS, Novell and SuperDOS releases of the RunTime use the quick library mechanism of the Microsoft Linker allowing the standard Basic-2C program to load a specified set of routines after Basic-2C starts. This approach does not work under XENIX or UNIX environments where code, in general, cannot be dynamically loaded at execution time.

Instead, the user subroutines must be linked with the Basic-2C RunTime itself to produce an executable file that is a customized version of the

## Memory Allocation

All Basic-2C program code and defined variables reside within a section of memory defined as the 'user partition'. As of Release III the size of the user partition is limited only by the available physical memory or logical task size of the host operating system.

Due to the dynamic nature of memory allocation by XENIX/UNIX, the RunTime allocates an initial 141K to the user partition. Additional space is

## IBM PS/2 Support

Niakwa is pleased to announce Basic-2C 286 RunTime Package

RunTime with the user subroutines 'built in'. This is the approach used to support external subroutines under XENIX and UNIX.

Another major difference with the new release of Basic-2C for Intel XENIX/UNIX systems is there are now two versions of the RunTime, one for standard 286 systems and one for 386 version that can only be used on certain approved 386/UNIX implementations. Therefore, there are two BESDK packages for XENIX/UNIX - one (XENIX/286 BESDK) for the standard 286 version and one (UNIX V/386 BESDK) for the 386 version. A custom RunTime made with the XENIX/286 BESDK is the 286 version. One made with the UNIX V/386 BESDK is the 386 version.

For a complete discussion of BESDK under XENIX/UNIX, refer to Chapter 10 of the Release III XENIX/UNIX Supplement.

allocated in 64K segments as required by the application. Unlike MS-DOS in which the maximum size of the user partition is reported, this is the minimum size of the user partition and is returned by the SPACEW function. The minimum allocation is used because attempting to allocate the full amount of virtual memory available would cause performance degradation. For a complete discussion of RunTime memory allocation, refer to Chapter 9 of Basic-2C Release III Supplement for XENIX/UNIX.

Release III operating under SCO XENIX/UNIX operating systems for the IBM PS/2 Series. This is the first release of Basic-2C for SCO XENIX

## RunTime Security

In the past, each time the RunTime Program was executed, a copyright screen was displayed indicating a choice of different languages for displaying security information. The startup screen referenced a unique serial number, which was printed on the labels of both the RunTime media and the RunTime User's Guide.

With Release III of Basic-2C for XENIX/UNIX, the RunTime security has been changed to implement a new security scheme. This security scheme operates similarly to the RunTime security on MS-DOS and Novell based systems in that the security 'fingerprint' may be installed and de-installed to and from the hard disk. The application security can be tied to the RunTime security.

The GOLD KEY is copied down to the hard drive and an install program is run to install the security fingerprint on the hard drive. If the security fingerprint is lost, the original GOLD KEY diskette acts as a back up until a replacement RunTime is obtained.

The RunTime Package diskettes have been produced in XENIX/UNIX "Archive" (tar) format on two different medias: 5.25" 1.2 MB diskettes and 3.5" 720k diskettes.

V and SCO System V/386 UNIX that is supported on the IBM PS/2 Series running any 80286/80386 processor.

We do expect that our 386 implementation for SCO System V (UNIX) will operate on the PS/2 implementation of SCO System V. However, this has not been tested as of this time.

## Altos 7 Terminal

Recently, Altos released the Altos 7 terminal. However, a bug was discovered in the firmware making the Altos 7 terminal inoperable in the Basic-2C environment. When using the Altos 7 terminal with Basic-2C, the Altos 7 terminal must be configured as a Wyse 60 terminal. Unfortunately, even with the most updated firmware (revision 1.2b), the Altos 7 terminal still does not completely emulate a Wyse 60 terminal. The most important feature missing is support for downloadable fonts. Also, when depressed, the Print Send key results in a screen dump. This, in effect, makes the Altos 7 terminal inoperable with Basic-2C.

Altos has been notified and is looking into a solution.

## Supported Terminals

The following terminals are supported for use with Basic-2C Release III running on Niakwa approved XENIX/UNIX environments. Each terminal is supported in all supported XENIX/UNIX environments unless otherwise noted.

- Altos III
- Altos V
- Wyse 50
- Wyse 60
- DEC VT100 Series
- DEC VT200 Series
- Wang 2236DE \*\*
- Wang 2236DW \*\*
- Wang 2336 \*\*
- Wang 2446 \*\*
- Console (Altos 500, SCO XENIX/UNIX)

Some of the above terminals, although they work well with Basic-2C, are not necessarily well suited for use in the native XENIX/UNIX environment. Please consult your XENIX/UNIX system reference manuals for details on terminal support.

\*\* Use of the terminals is currently limited to systems operating under SuperDOS and Altos 1000 systems operating under UNIX. Refer to the appropriate Basic-2C Supplement for details on terminal characteristics. Note that earlier model Wang terminals such as the Wang 2236D are not supported for use with Basic-2C.

## Altos 600 CPU

Altos announces an additional CPU: the Altos 600. The Altos 600 is replacing the Altos 500, which is now discontinued. The Altos 600 operates with Altos System V only and is designed as an entry level system that is very fast and very powerful.

The Altos 600 is supported with Basic-2C. RunTimes labelled for use on the Altos 1000 will operate on the Altos 600. Note that Altos 500 RunTimes will not work.

To obtain information on an Altos 600, North American Distributors please contact Bluebird Systems; International Distributors please contact your local Altos representative.

## Release 2.01 XENIX/UNIX Discontinued

The following platforms will be available for Basic-2C Revision 3.00 only:

- Altos XENIX 3
- Altos XENIX System V
- SCO XENIX V
- Wang APC XENIX 3 and V

In answer to many of our Distributors' need for copy protection, Niakwa's Release III versions of the platforms listed above will now be "secured" products. We will no longer sell these Revision 2.01 RTP's since they are not secured, effective immediately. However, they will be available for replacement purposes only through December 1991. Niakwa will automatically ship Release III RTP's for all orders placed after the products release date.

We feel it is to our advantage as well as our Distributors to insure that these programs are copy protected.

## "Return Required" Upgrade

The older release RTP's will be due within 30 days of receipt of the Release III RTP's. Future releases of the Basic-2C 286 RunTime Packages for XENIX/UNIX will incorporate the 'no return' upgrade method currently used for Release 2.01 MS-DOS and Novell RTP's.



## XENIX/UNIX Upgrade Ordering for Release III

When Release III for MS-DOS, Novell and SuperDOS was introduced in May, 1989, Niakwa revamped the packaging of Basic-2C. The Technical Reference Guide (TRG) replaced the Language Reference Guide and 'upgrade' RTP's were developed for MS-DOS and Novell RTP's.

Listed below is a recap of the Release III product changes and highlights of the XENIX/UNIX upgrade program.

If you have not already received your Upgrade forms and instructions, please contact your Account Manager.

### XENIX/UNIX Upgrades Available

Here's a handy reference table to guide you through the availability of upgrades to Release III from previous releases.

Product Type	Revision #	Availability
Wang APC XENIX 3	1.03	Not available
Wang APC XENIX 3	2.00	Available
Wang APC XENIX 3	2.01	Available
Wang APC XENIX V	2.01	Available
Altos XENIX 3	2.00	Available
Altos XENIX 3	2.01	Available
Altos XENIX V	2.01	Available
Altos System V	2.01	Available
SCO XENIX V	2.01	Available

### Technical Reference Guide

The Basic-2C Technical Reference Guide (TRG) replaces the current Language Reference Guide. Consisting of two binders contained in handsome cases, the TRG describes the Basic-2C programming language and other hardware independent features of Basic-2C. The Technical Reference Guide is essential for programmers who wish to use any of the new Release III enhancements.

If you have not yet upgraded to Release III, a Technical Reference Guide will be required when purchasing your first Release III XENIX/UNIX upgrade RTP's. The TRG and associated Supplement(s) contain important instructions needed to install the RTP, as well as documentation of all the new enhancements we've added to Basic-2C.

### Release III - Upgrade Statistics

Release III Upgrade orders have been steadily flowing in as an increasing number of Distributors incorporate the improved features into their own program designs.

To date, more than half of our 400+ active Basic-2C Distributors have upgraded to Release III.

With the RTP discount ending on March 1, 1990, we expect even more Distributors to upgrade their End-Users. Also, support for Revision 2.00.04 will end July 15, 1990. This is a good reason to encourage your End-Users to upgrade now and benefit from the discounts in effect.

Following are two charts showing which products have comprised our Upgrade orders since May 15, 1989.

#### Development Packages - Upgrades to Release III

IBM (MS-DOS)	224
Novell (Netware)	98
SuperDOS (SuperDOS)	50
Wang (MS-DOS)	32
<b>Total</b>	<b>404</b>

### XENIX/UNIX Supplement

The revised XENIX supplement describes the installation and operation of Basic-2C on Altos XENIX 3, Altos XENIX System V, SCO XENIX V, and Wang APC XENIX 3 and V. In addition, both 286 and 386 versions of the compiler diskettes will be provided.

Due to the increased product costs involved, the upgrade fee is slightly higher than other supplements.

## General News

### New Employees

**Dana Schwartz** joined Niakwa in August 1989 as a Systems Analyst. Her route to Niakwa was circuitous. Dana (pronounced Donna) was born and educated in Romania and has a Master's Degree in Electrical Engineering. After working as an Electrical Engineer in Romania for two years, she immigrated to Israel. She worked for the Ministry of Energy and met and married her best friend Mike (a US citizen), who presently runs his own remodeling company. They have one child, Alex, whom they describe as their "best work." They came to the United States six years ago. Once in the United States, Dana began a new career as a computer programmer. In her six years in the field, Dana has done extensive design, development, and QA for software products developed in BASIC, FORTRAN and FOCUS.

**Barbara Chiprin** joined Niakwa in August 1989 as a Product Analyst and is a Chicagoland native. After graduating from Indiana University with a BA in Journalism and a minor in Computer Science, she worked as a Technical Writer/Training Specialist for a company developing a Database Management System involving a 4GL. She recently won a 13" color TV from Bluebird's kick-off meeting. Thanks Bluebird!!

**Joyce Craig** joined Niakwa in November 1989 as a Receptionist in November and is responsible for directing phone calls, visitors and mail to the proper employees. Her genuine desire to assist people is backed by 13 years of customer service with the Kentucky State Motor Vehicle Division. Originally from Louisville, Kentucky, Joyce moved to Illinois with her husband Calvin in 1987. She has two sons and a daughter.

### New Area Code

Illinois has in the past few years experienced a surge in economic growth. As a result, our local telephone company is running out of phone numbers to serve the Greater Chicago Metropolitan area. The most cost effective and efficient manner to solve this problem was to create a new area code and allow current customers to retain their seven digit numbers.

Since November 11, 1989, Chicago suburban area phone numbers are preceded by the Area Code 708. The boundary between the 708 and 312 area codes follows the Chicago city limits. As a northwestern suburb of Chicago we are now included in the 708 area code. If you have a question about a Chicago area business telephone number, you can verify the correct area code by calling 1-800-274-6876.

Our new number is (708) 634-8700, our Fax number is (708) 634-8718. Please update your intercompany phone lists. If you own or lease equipment that stores or analyzes telephone numbers, please change our area code to 708. Please make these changes as soon as possible. Our change-over period is scheduled to be completed by February 9, 1990. After that, calls will need the correct code to be completed.

### Demonstration Diskettes New Packaging and Pricing

We are making demonstration diskettes easier for you to purchase! They will now be packaged in smaller sets of 10 diskettes per box. They will be available for the same platforms as always, and the product number will remain the same.

1A-DEM Wang	(MS-DOS) 5 1/4"
2A-DEM IBM	(MS-DOS) 5 1/4"
2B-DEM IBM	(MS-DOS) 3 1/2"

With the Release III implementation of the "SELECT LOG" statement, it is now easier than ever to create self-running demonstration diskettes of your own software. (See Chapter Nine of the Programmer's Manual for more details of the \$DEMO feature.)

### Release 2.00.04/2.01 Update

Although most of our RunTime Package sales are for Release III, there is still enough market demand to continue selling Revision 2.01 beyond December 31, 1989. For this reason, we are extending the availability of Revision 2.01.20 RTP's indefinitely for the following platforms: IBM (MS-DOS); Novell (Netware); SuperDOS (SuperDOS); Wang (MS-DOS). This applies to new RunTime Package sales only. Please remember to specify the Revision number when ordering these RTP's.

Release 2.00.04 RTP's for MS-DOS, Novell and XENIX/UNIX will NO LONGER be supported as of July 1990.

If a Release 2.00.04 RTP becomes damaged after July 1990, it cannot be replaced. A new release of the RTP will have to be purchased.

## Tech Corner

### Novell Tech Notes

Tech notes is designed to in most cases provide possible work-arounds to operating system specific problems encountered by our customers but not related to Basic-2C.

#### Invalid COMMAND.COM Error

In order to exit the RunTime either via an invoke or \$END, DOS must locate and load the command processor. This is accomplished by use of the COMSPEC system variable that is used to locate and reload COMMAND.COM. If more than one version of DOS is available on your network you should create an operating system directory for each DOS version. COMSPEC would then be placed in each users LOGIN script to point to the appropriate DOS versions necessary.

In instances when the appropriate command processor is not located, the message "Invalid COMMAND.COM" is displayed resulting in a Basic-2C error A01. The following describes some of the instances that this may occur.

- \* The version of COMMAND.COM that the user has booted under is

not the same version being pointed to by COMSPEC.

- \* COMSPEC not set at all.
- \* The version of COMMAND.COM that the user booted under is the same as the version COMSPEC is pointing to but the DATE, TIME and size of the files are not identical. The COMMAND.COM files must be exact replica's.

#### Mirroring Problem

We have had occasional reports of intermittent DRIVE F: not ready errors from users who are utilizing the Novell mirroring facility. Since use of mirroring decreases system response time (all disk write operations are performed twice); the network occasionally times out on a disk I/O request. According to Novell, in order to alleviate this problem you need to increase the number of buffers allocated in the NET\$OS.EXE. For information on re-configuring NET\$OS.EXE, refer to your Novell documentation.

#### Intermittent Hang Problem

In some instances, exiting from an application on a non-dedicated

fileserver, results in the fileserver hanging. At the same time all workstations remain functional. This problem occurs when the application being run at the fileserver overwrites COMMAND.COM. According to Novell FYI 1212, the suggested work around to this problem is to place "#command /c" in the system login script after mapping the DOS search drive and setting comspec. It is also suggested that all prompt strings issued in your AUTOEXEC file be removed and executed in the users login script.

#### Install Problem

As is noted in the Basic-2C User's Guide and Novell Supplement, the installation of Basic-2C on systems operating with a non-dedicated fileserver, should be performed from a workstation. Performing the installation procedure from a non-dedicated file server can cause unpredictable results. Sometimes it may work. Sometimes it may not, usually resulting in the system hanging. And sometimes it may even damage the RunTime diskette you are attempting to install. In all cases, installation from a workstation should be 100% successful. Note that this problem is not covered by any bug in Basic-2C and cannot be corrected by Niakwa.

### Wang PC Keyboard Variance

Past revisions of the Wang PC series of compatibles were shipped with a keyboard labeled Model 723. This keyboard differs from most extended AT keyboards in that the F11 and F12

keys functioned correctly under Basic-2C. With the advent of the Model 724 keyboard (shipping with new systems), the F11 and F12 keys have ceased to function with the

RunTime. This problem is due to changes made by Wang to the keyboard driver and cannot be corrected by Niakwa.

## IBM MS-DOS, IBM Novell, SuperDOS, Wang MS-DOS

### Patch 3

We are happy to announce a new field patch release for Basic-2C under IBM MS-DOS, IBM Novell, SuperDOS, and Wang MS-DOS. This new patch corrects problems not fixed by Patch 1 or 2. Once this patch is installed, the Basic-2C release revision displayed on the copyright screen and returned by \$REV becomes 3.00.02.05. The following list contains some of the bugs corrected:

- \* LIST T with a line number range now decompiles correctly
- \* TRACE V with an alpha variable

specified used to create spurious errors.

- \* The statement number option of the RUN command used to produce unpredictable errors

- \* Color replacements for underline attribute (as specified by byte one of \$OPTIONS) did not work quite the same as previous releases.

- \* Under SuperDOS, the \$GIO C620 microcommand drops random characters and HEX(11)'s and

(13)'s when reading from a serial port.

- \* Under SuperDOS, The VER statement may sometimes cause an exception error 13.

A complete list and detailed description of the resolved bugs by this patch are found in Bug Report #3. We want to thank all our customers once again for taking the time to communicate to us any bugs found and also for their patience in waiting for the solutions to the problems.

### Basic-2C on IBM Compatible Systems

In the past Niakwa's policy on supported PC compatible systems has been pretty straightforward. Niakwa has consistently tested and published listings of approved compatibles for use with Basic-2C. In many cases, our licensees have found that Basic-2C operates quite well on most compatibles even though they are not listed as an Approved Compatible.

Due to the high level of compatibility of Basic-2C in the PC compatible marketplace and the tremendous infusion of new compatibles on the market, Niakwa will no longer perform testing of compatible systems.

It should be noted that this is not a blanket approval of every PC Compatible on the open market. There will always be some risk involved when running Basic-2C on a PC compatible. This is due to the industry's neglect of implementing consistent standards in the manufacturing of

the wide variety of hardware components used to make up a PC compatible system. As a result of this lack of standards, you may run into an occasional system that has problems running Basic-2C. If you are at all uncertain about whether or not a system will run Basic-2C, you should proceed with caution and verify that the RunTime operates appropriately before committing to the system.

In future newsletters, Niakwa will publish a listing of PC Compatibles that are currently running Basic-2C. In addition, Niakwa will begin to publish a new list. This list will be accumulated from the worldwide Niakwa licensee base, so please drop us a line and let us know what PC compatibles you are running on. Although Niakwa cannot guarantee compatibility of each system, you should refer to this as a point of reference when considering a new system.



## Future Considerations

### Basic-2C and SuperLAN

SuperLAN is a new product of Bluebird Systems that allows SuperDOS programs to interact with two or more CPU's, which are physically linked together by a high speed data communications network. In other words, this product will offer networking capabilities to our SuperDOS users.

Release III of Basic-2C for SuperDOS is intended to work on SuperLAN. Our Basic-2C developers that use SuperLAN will be able to do the following:

- \* read and write files that physically reside on other CPU's (called "nodes") in the network,
- \* output information to ports (printers) that physically are connected to other nodes on the network,
- \* access unique terminal identification based on the node number.

### Times Change

Niakwa is changing the format of the newsletter. Niakwa realizes the growing curiosity and need for our VAR's to communicate with each other. Niakwa's intentions are to gradually change the format of the newsletter to better suit your curiosities, needs and developments.

Niakwa is concentrating its efforts in working closely with Bluebird Systems SuperLAN team in order to perform thorough testing of the new software and its impact on Basic-2C. We hope to discover and correct any possible problems that might result from the interface of Basic-2C, SuperDOS and SuperLAN in order to avoid as many difficulties as possible for our users.

Results to date have been very good, and we expect Basic-2C to work well on SuperLAN with the initial release of SuperLAN. Niakwa will publish detailed technical instructions about the use of SuperLAN with Basic-2C as the SuperLAN release date approaches.

### Inquiring Minds Want To Know

Niakwa is inquiring about any interested parties who would like to use Basic-2C in an XENIX/UNIX environment other than SCO XENIX or SCO System V/386 UNIX 3.2; such as, AT & T or Interactive. If you are interested, please write to Niakwa Management Services of America at the Chicago office, Attn: Kevin Brownell. Also, please furnish an explanation as to why you prefer an alternate environment.

Please involve Niakwa with your success stories, technical hints or tips, successful new developments with the Release III features, or just gossip, by contacting Niakwa's Newsletter Editor: Barbara Chiprin. Niakwa wants the newsletter to become your favorite technical publications, but we need your input.

### Niakwa Gateways

Release III of Basic-2C introduced the external call capabilities which are already used by many of our developers. The external calls added significant new features to existing applications by use of calls to pre-written third party library package. However, we discovered that for many of our users, the task of finding the right package and of developing the routines needed to interface with Basic-2C did require a significant effort.

In order to make the access to existing technology as easy as possible, Niakwa is considering developing and distributing a new class of products: Niakwa Gateways. These products would consist of third party library packages selected by Niakwa, along with all required "interface" routines and documentation.

Therefore, taking in consideration the multitude of existing products that might be interesting to our clients and wanting to find out exactly which ones would be the most useful, Niakwa has developed a survey that offers the opportunity to our users to have an input and to contribute directly to our future products.

Niakwa has already sent out this survey and you may have already filled one out. In case some of our readers did not receive one but would like to give us their input on the Gateways subject, we have attached a blank survey at the end of this newsletter.

Some of the Gateways products will be able to offer direct access to applications that can create and manage menus and data-entry forms,

See pg. 9, GATEWAYS

GATEWAYS, continued from pg. 8 display context-sensitive help information, provide test entry and editing capability, and manage keyboard input.

Also we envision that the products included in Gateways will offer the ability to integrate word processing with charting or spreadsheet programs; graphics with accounting packages; statistics with engineering packages, etc..

As described above, Gateways will provide new exciting application

development possibilities. By adding just a GOSUB statement in your code, your Basic-2C application will be able to interface with pre-written third party library packages.

Because Gateways takes care of the entire interface mechanism our users will need little or no knowledge of non-Basic-2C languages.

From the answers to the survey we already received until now and our conversations with different major developers, we observed a strong need for SQL support, Relational DBMS

(4GL capabilities) and Report Generators. At this time Niakwa is concentrating its efforts in defining, in detail, the directions and specifications for these new Gateways products.

Once again, we want to thank our clients that took their time to fill out the survey and underline the importance that Niakwa gives to their interesting input. Also, we would like to ask the rest of our users to send us their opinions regarding the new Niakwa Gateways products by filling out the attached blank survey and mailing it to us as soon as possible.

## Help Us Sell Your Basic-2C Application

As part of our fiscal year 1990 sales strategy, Niakwa will be working to promote the wealth of Basic-2C applications to Basic-2C supported manufacturer's sales representatives. As you well know, oftentimes the software, not the hardware, clinches the sale.

The wide range of vertical markets covered by our licensee base will be listed in promotional mailings to these representatives and cataloged by Niakwa. Company

names and contacts will be distributed to interested parties upon request.

If you wish to be included in the Basic-2C application data base and sales plan, please complete the Basic-2C vertical application form for each software package you want listed and return it by March 15, 1990. If you need more forms to list multiple vertical application packages, please photocopy this form and provide the above information for each application.

## Replacement RunTime Packages

In the event of a RunTime Package (RTP) being damaged, replacements are available. In order to better serve you and eliminate confusing situations, Niakwa has formalized the manner in which a replacement RTP should be ordered. When ordering a replacement RTP, the following information is required prior to Niakwa shipping the replacement to the distributor's site:

**When** the RTP was damaged.  
**Who** encountered the damaged RTP (Company name)  
**Where** the damage occurred (address)  
**What** type of RTP, please include number of users, release number\*, media size, and hardware version of RTP  
**How** was the RTP damaged

Upon receipt of the replacement RTP, the distributor has ten (10) days in which to return the damaged RTP to Niakwa. Please include a copy of the original request with the damaged RTP. By doing so, your account will be credited with the return, accurately and on time. For your convenience, please copy and use the "Replacement RunTime Package Request" form.

\*Unless otherwise stated, the same release number will be sent as a replacement, although this is a good opportunity for you to upgrade to the most current release.

Please photocopy and return to:

Niakwa Management Services  
 23600 North Milwaukee Avenue  
 Mundelein, IL 60060  
 Attention: Lesslee Dort

### Replacement RunTime Package Request

Date: \_\_\_\_\_ Distributor's Name: \_\_\_\_\_  
 \_\_\_ Damaged RTP enclosed Contact Person: \_\_\_\_\_  
 \_\_\_ Damaged RTP due within 10 days End-User's Name: \_\_\_\_\_  
 End-User's Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Method of Payment: \_\_\_\_\_ Ship replacement via: \_\_\_\_\_  
 \_\_\_ Check enclosed # \_\_\_\_\_ \_\_\_ UPS 2nd day air  
 \_\_\_ COD \_\_\_ UPS Next day air  
 \_\_\_ VISA \_\_\_ Federal Express  
 \_\_\_ MasterCard \_\_\_ SkyPak  
 Name on Card: \_\_\_\_\_  
 Card Number: \_\_\_\_\_  
 Expiration Date: \_\_\_\_\_  
 Cardholder Signature: \_\_\_\_\_

Op. Sys. RTP runs on	Release Number	Media Size	Number of Users
_____	_____	_____	_____

Comments/Explanation: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

## Gateways Survey

Company Name: \_\_\_\_\_ Date: \_\_\_\_\_  
 Contact Person: \_\_\_\_\_ Telephone: \_\_\_\_\_  
 Address: \_\_\_\_\_ Fax: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 Country: \_\_\_\_\_

Are you interested in the Gateways products?

Yes \_\_\_\_\_ No \_\_\_\_\_

Please rank from 1 to 10 your level of interest (1 - being most preferred):

Relational DBMS	_____
Indexed Sequential Access Method (ISAM)	_____
Presentation Graphics	_____
Spreadsheets	_____
Statistical Packages	_____
SQL Support	_____
Screen Management	_____
Report Generators	_____
Window Manager/Screen Manager	_____
Communications	_____

Please add any other functional areas you want the products to support.

\_\_\_\_\_  
 \_\_\_\_\_

Please add any specific third party routines you would like Niakwa to consider.

\_\_\_\_\_  
 \_\_\_\_\_

How should the Niakwa Gateways products be priced?

\_\_\_\_\_  
 \_\_\_\_\_

## BASIC-2C VERTICAL APPLICATION

Company Name: \_\_\_\_\_ Date: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Country: \_\_\_\_\_

1) Descriptive Title of Package:  
\_\_\_\_\_

2) Year first installed with Basic-2C:

\_\_\_ '84    \_\_\_ '85    \_\_\_ '86    \_\_\_ '87    \_\_\_ '88    \_\_\_ '89

Number of installs:

\_\_\_ < 10    \_\_\_ 11-25    \_\_\_ 26-50    \_\_\_ 51-100    \_\_\_ > 100

3) Target Market Vertical (s):  
\_\_\_\_\_

4) Systems currently installed on: (Check all that apply)

\_\_\_ MS-DOS                      \_\_\_ SuperDOS                      \_\_\_ XENIX 3 or V (APC)

\_\_\_ Novell                              \_\_\_ DEC VMS                              \_\_\_ XENIX 3 or V (Altos)

\_\_\_ SCO XENIX/UNIX                      \_\_\_ Altos V                              \_\_\_ NEC Astra

\_\_\_ UNIX V (Bull)

5) Product Description, 100 words maximum:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

PLEASE RETURN THIS FORM BY MARCH 15, 1990 TO BE INCLUDED IN THE BASIC-2C VERTICAL APPLICATION DATA BASE.

NOTE: If you need more forms to list multiple vertical application packages, please photocopy this form and provide the above information for each application.

Fold along line

Fold along line

Place  
Postage  
Here

From: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Niakwa Management Services of America, Inc.**

**The Niakwa Building**

**23600 N. Milwaukee Ave.**

**Mundelein, IL 60060**

**Attn: Dana Schwartz**



Fold along line

Fold along line

From: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Place  
Postage  
Here

**Niakwa Management Services of America, Inc.**  
**The Niakwa Building**  
**23600 N. Milwaukee Ave.**  
**Mundelein, IL 60060**

**Attn: Jennifer Mondy**

## Product Update Status

**Basic-2C has been tested in the following environments**

### Single-User MS-DOS Systems

AMSTRAD PC1512	HONEYWELL PC AP	NEC APC IV
* ARCHE/RIVAL -286	HP VECTRA	SPERRY PC, PC/IT
*+ AST PREMIUM 286	HYUNDAI SUPER - 286C	TANDY 3000
AT&T 6300, 6300 PLUS	*+ IBM PC, XT, AT	TELEVIDEO TELE-PC
COMMODORE PC-10, PC-20	* IBM PC, XT, 286	TELEVIDEO TELE-XT
COMPAQ DESKPRO	*+ IBM PS/2 MODELS 30, 50, 60, 70, 80, 30/286, 50S, 70Z/386	TI BUSINESS PRO
COMPAQ PLUS	ITT XTRA XP	* TOSHIBA T3100, T3200
COMPAQ PORTABLE	* KAYPRO 1610	TULIP COMPACT
* COMPAQ PORTABLE III	* KAYPRO 16/E	UNISYS PW2/500-12
* COMPAQ 286 DESKPRO	* KAYPRO PC, PC10, PC30	* UNISYS PW2-500
* COMPAQ 386 PORTABLE	* KAYPRO 286i	UNISYS PW2-800
* COMPAQ 386 DESKPRO	* KAYPRO 386	*+ WANG PC, APC
* COMPAQ 386/S DESKPRO	* KAYPRO 2000 +	*+ WANG PC280
* COMPAQ 386/20E DESKPRO	LEADING EDGE PC (D)	*+ WANG PC380, 382
+ COMPAQ 386/25 DESKPRO	MAI/BASIC4 PC	*+ WYSE PC, PC286, 2108, 2200 3216, 3225
* COMPAQ LAPTOP SLT/286	* MULTITECH LAN 500 (ACER)	XEROX 6060PC
COMPUTERLAND PC	*+ MULTITECH 700, 710 (ACER)	XEROX 6065
DEC VAXMATE	*+ MULTITECH 900, 910 (ACER)	ZENITH 150 SERIES
* DELL SYSTEM 220/286	* MULTITECH 1100 (ACER)	ZENITH 248 SERIES
EPSON EQUITY I, II, III	NCR PC6	* ZENITH SUPER SPORT/286

\* Tested and passed for 2.01. Note - to date no previously approved compatible has failed the 2.01 compatibility testing.  
+ Tested and passed for Release 3.00. To date no previously approved compatible has failed the 3.00 compatibility testing.

### Multi-User Shared Logic Systems Computer

ALTOS 686, 886, 1086, 2086, 3086  
ALTOS SERIES 2000  
ALTOS 500, 600, 1000, 2000  
DEC VAX Series  
HONEYWELL BULL XPS-100  
IBM AT & IND. STANDARD 286  
IBM, PC, XT, AT  
IBM PS/2 SERIES  
IBM PS/2 SERIES  
INDUSTRY STANDARD 386  
NEC ASTRA-XL SERIES  
WANG 280  
WANG 380  
WANG APC  
WANG APC  
WYSE PC 286 SERIES  
WYSE PC 386 SERIES

### Operating System

XENIX 3  
XENIX V  
SYSTEM V  
VMS  
UNIX V  
SCO XENIX V 286  
SUPERDOS  
SUPERDOS  
SCO XENIX V 286  
SCO XENIX V 286  
ASTR-IX  
SCO XENIX V 286  
SCO XENIX V 386 AT  
XENIX 3  
XENIX V  
SUPERDOS  
SUPERDOS

### Multi-User Distributed Logic Systems (Networking)

NOVELL ELS I  
NOVELL ELS II  
NOVELL ADVANCED NETWORK 286  
NOVELL E/TI NETWORKING  
SPERRY USERNET  
IBM & ALL APPROVED  
COMPATIBLES  
(SEE SINGLE USER MS/DOS)

Due to the high level of compatibility of Basic-2C in the PC compatible marketplace and the tremendous infusion of new compatibles on the market, Niakwa will no longer test compatible systems. This chart lists PC compatibles that are currently running Basic-2C and has been tested by Niakwa. Refer to this chart as a point of reference when considering a new system.



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