

**DG/UX NEWSLETTER**

**UPDATE 5 - 1990**

**092-000666 -01**

## Notice

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Change of Address Mailer

## INTRODUCING THE SOFTWARE NEWSLETTER

### EDITOR'S CORNER

Dear Customers,

This update contains new information and Software Trouble Report (STR) for the following products in Section 2 and 3:

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### NEW PRODUCTS

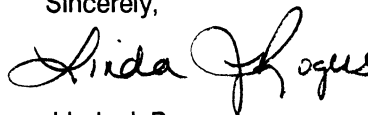
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OPENPC™ for AViiON™ SYSTEMS			
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In this update we have included a Customer Survey. This is one of the very important ways we can find out how you feel about the newsletter. Please take a few minutes to complete this survey.

This newsletter has been designed for you to either replace the pages or insert them behind the appropriate section of your base copy.

We hope you find this format useful. Keep your suggestions and comments coming. We look forward to hearing from you.

Sincerely,



Linda J. Rogers  
Product Information Management

### COMMENTS WELCOME!

We are always interested in any comments or suggestions that you might have concerning the Newsletters. If you would like to pass them along, please use the Newsletter Comment form located at the end of this Newsletter.



**DEAR SUBSCRIBER**

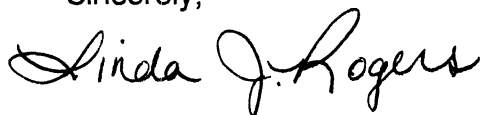
July 23, 1990

Dear Customer:

We at Data General are genuinely interested in making the Monthly Newsletters responsive to your needs. We would greatly appreciate your spending a few minutes to complete the survey on the following pages. We will use your comments to identify and evaluate those areas of the Newsletter that you feel need improvement.

We would appreciate it if you could return the survey to us by August 27, 1990. Thank you so much for your time and cooperation in helping us make the Newsletter more useful to you, our customers.

Sincerely,

A handwritten signature in cursive script that reads "Linda J. Rogers".

Linda J. Rogers  
Product Information Management

**DEAR SUBSCRIBER**



**Q4 FY90 NEWSLETTER CUSTOMER SURVEY**

Please answer questions 1 through 4 based on the following scale:  
Ten (10) being the most important/useful/satisfied and Zero (0) being the least important/useful/satisfied.

10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0

Most Important/Useful

Least Important/Useful

1. How important is the newsletter as a component of your SSS or Support Plus?

Rating: \_\_\_\_\_

2. How would you rate the usefulness of the Newsletters?

Rating: \_\_\_\_\_

3. How would you rate the usefulness of the following newsletter sections?

Rating: \_\_\_\_\_ Current Software Status  
 \_\_\_\_\_ Programming Notes/Documentation  
 \_\_\_\_\_ STR Answer Report  
 \_\_\_\_\_ Hot Off the Press  
 \_\_\_\_\_ Educational News

4. How satisfied are you with the update mechanism implemented with Volume I of the newsletters?

Rating: \_\_\_\_\_

5. What type of information would you like to see expanded and/or added in the newsletter?

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

6. What material could be condensed or eliminated?

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7. What changes would you recommend to make the newsletter easier to read or reference?

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8. In general, what improvements do you feel could be made?

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Thank you for taking the time to fill out this questionnaire. Your comments are valuable to us as we are committed to making the newsletters a useful and informative document.

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

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

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Mail Completed Form To:

Data General Corporation  
4400 Computer Drive  
Westboro, MA 01580

ATTN: Linda J. Rogers  
Mail Stop F-134

**HOT OFF THE PRESS!****MARKETING ANNOUNCEMENTS/PRESS RELEASES****NEW DASHER 386 AND 286 PC/WORKSTATIONS**

Joining Data General's DASHER PC/workstation family this month are two new IBM AT-compatible personal computers: the 386-25k and 286-12j.

The DASHER/386-25k is a high-performance system using the Intel 80386 25-Mhz processor. The system supports both MS-DOS and UNIX operating systems, at a list price of \$US 4995 for a configuration that includes 4-MB of memory and a 100-MB hard disk.

The DASHER/286-12j is a compact, low-cost system using the Intel 80286 12.5-Mhz processor, and supporting the MS-DOS operating system. A base configuration including 1-MB of main memory, two diskette drives, and a 40-MB hard disk is priced at \$US 2375.

Data General offers discounts for individual and volume purchases of all computers, reducing the list price by 20 percent or more.

"The aggressive pricing of these two new PCs serves notice that Data General is a price/performance leader among all PC suppliers," said Ted Webber, director of PC product marketing. "When Data General's discounts are factored in, the prices of these units are well below those of the largest-selling PC suppliers, and are comparable to prices offered by mail order suppliers. The difference is that these units are backed up by Data General's quality manufacturing and worldwide service, engineering and software capabilities."

**DASHER/386-25k**

The DASHER/386-25k can be configured as a LAN server, a multi-user UNIX system, or a high-end 386 workstation in compute-intensive applications such as desktop publishing, CAD, imaging, or database management. It includes 4-MB of memory (expandable to 16-MB), 32-KB cache memory, Super VGA graphics controller on the system board, LIM (Lotus-Intel-Microsoft) 4.0 using QEMM-386 software support, a keyboard, and the MS-DOS operating system. Other standard features include a 1.44-MB, 3.5-inch diskette drive or a 1.2-MB, 5.25-inch diskette drive, two serial ports, and one parallel port.

The high level of integration of the system board leaves four full-size, 16-bit AT-compatible expansion slots available. Options include a second 5.25-inch or 3.5-inch diskette drive, 40-MB or 150-MB cartridge tape, a 330-MB half-height ESDI hard drive, monochrome or color VGA monitor, math co-processor, LAN controllers, and mouse. Up to two 3.5-inch hard drives can also be installed. Data General offers a 40-MB, a 100-MB or a new, 200-MB 3.5-inch hard drive. The system supports PC UNIX operating systems along with MS-DOS.

The DASHER/386-25k is designed for users who want a low-cost entry into high-performance 386-based computing. For users who require maximum expandability, the 386-25k, by virtue of its four available expansion slots, can be configured with up to 400-MB of disk storage, a math co-processor, magnetic tape backup units, and a variety of add-in cards, including multiplexors and modem, FAX, and LAN cards. It comes with Data General's PC "On-site Select" one-year warranty covering all parts and labor.

**DASHER/286-12j**

The DASHER/286-12j incorporates functionality and performance to support business applications including word processing, spreadsheets, graphics, and database management, in both standalone and LAN-based environments. The system includes 1-MB of wait-state memory (expandable to 4-MB), a 40-MB hard disk, 1.44-MB 3.5-inch diskette drive, 1.2-MB 5.25-inch diskette drive, VGA graphics controller on the main board, LIM 4.0 built-in memory support, keyboard, MS-DOS operating system, one parallel port and two serial ports, and three 16-bit expansion slots.

## HOT OFF THE PRESS!

The expansion capacity of the DASHER/286-12j is equal to that of many full-size PCs, yet the unit is only 3.75-inches high with a 16.1 by 15.5-inch footprint. Options for the new DASHER/286-12j include color and monochrome VGA monitors, LAN controller cards, math co-processor, and mouse.

The DASHER/286-12j comes with Data General's PC "On-site Select" one-year warranty covering all parts and labor.

### Additional Products & Services

Data General also introduced a new VGA color monitor, a 200-MB 3.5-inch half-height disk, a price reduction on the DASHER/386-25 system, and the availability of the new Data General PC "On-site Select" warranty program for the DASHER family.

The new Model 6628 14-inch color monitor has an 0.31 mm dot-pitch rating and superior clarity. Included with each unit is a compact built-in tilt/swivel stand and a universal convenience power cord. It is priced at \$US 645, and available for immediate delivery.

The new 200-MB 3.5-inch half-height disk, Model 6664, has a 16ms average access time, 1.5-MB per second potential transfer rate, and a 64KB look-ahead buffer. The disk also runs on Data General's DASHER/386SX-16, raising the disk capacity of that system to 400-MB. Model 6664 is priced at \$US 1695 and is also available now.

The DASHER/386-25 personal computer, Data General's top-of-the-line PC workstation has been reduced in price by more than 10 percent for popular configurations. Supporting up to five half-height disks and with six full size expansion slots, a base-level DASHER/386-25 with 4-MB of memory, 156-MB disk drive, VGA controller, keyboard and the MS-DOS operating system now has a list price of \$US 6995, a 13 percent price reduction.

Data General's new PC "On-site Select", a service and support program designed to meet the needs of DASHER PC customers, applies to all DASHER PCs under warranty on or after May 29, 1990. The program provides the following services: toll-free telephone support from 8:00am - 5:00pm, local business hours; technical support via telephone to identify systems or modules needing repair; express shipment of replacement parts; and the option of customer parts replacement (including telephone assistance and walk-through) or on-site replacement within 48 hours of the initial call.

### NEW RELEASE OF DG/UX OPERATING SYSTEM

The new release of DG/UX (4.3) features significant performance improvements, new kernel and networking enhancements, and includes the Looking Glass graphical interface and FrameMaker desktop publishing software.

"We have undertaken some significant tuning of the DG/UX operating system -- including tuning asynch, I/O, kernel and Microfocus COBOL -- resulting in improved performance," said Stan Dolberg, manager of Open Systems Marketing. "The performance increases in the recognized UNIX benchmarks pay testimony to the goals we put forth for DG/UX 4.3. In addition, bundling a recognized graphical user interface and a leading desktop publishing package with DG/UX makes it the best UNIX operating system for commercially-oriented applications and systems."

New kernel enhancements for DG/UX 4.3 include a kernel debugger to ease the debugging process of user-written device drivers. Also included in DG/UX 4.3 is certification for the Binary Compatibility Standard by the 88open organization, enabling customers to run 88open shrink-wrapped software and develop it for other BCS compliant systems.

Other kernel enhancements include support for BSD adjtime system call and Network Time Protocol, which allows AViiON, BSD-compatible, and SunOS systems to synchronize system time across all CPUs. This helps ensure the behavior of incremental backups and software development features in a distributed

**HOT OFF THE PRESS!**

environment.

Networking enhancements have resulted in improved performance and throughput using TCP/IP. The addition of streams-based TCP/IP under DG/UX 4.3 improves the packets-per-second rate. DG/UX 4.3 also includes BFTP command for batch file transfers, allowing customers to operate local and wide-area networks with a single consistent set of protocols and facilities, and to automate file transfers between systems.

Support for BSD 4.3 lpr subsystems has been added to DG/UX, allowing AViiON systems to share printers with BSD-compatible and SunOS systems in distributed environments. And support for Novell Portable NetWare -- allowing AViiON systems to provide file and print services to communities of MS-DOS PCs and Macintoshes when the optional Novell NetWare is installed -- is also included in the new release.

**Looking Glass UNIX Shell**

Visix's Looking Glass is a graphical-based UNIX shell that contains over 400 icons representing nearly every different kind of file in the DG/UX file system. By simply selecting the icon of your choice with the mouse, you can easily navigate the UNIX filesystem or launch UNIX applications. Other functions include a powerful file finder, an icon editor and a network-based license server.

Looking Glass is a powerful, yet small, efficient, easy-to-use graphical shell that any user will appreciate regardless of their UNIX experience. Many experienced Macintosh users have declared Looking Glass the "only UNIX interface they will use". Looking Glass is based on the OSF/Motif user interface and is certified as fully compliant with OSF/Motif's look and feel. It is the first OSF/Motif application to be certified OSF/Motif compliant.

**FrameMaker Publishing Software**

FrameMaker is powerful publishing software that seamlessly combines tools for creating, revising, and producing both internal and publication-quality documents. FrameMaker can help you create a wide range of documents -- from reports, newsletters and presentations to complex, lengthy technical manuals and books.

The flexible design and page layout capabilities rival the performance of stand-alone desktop publishing packages. FrameMaker includes a full-featured WYSIWYG word processor and a complete graphics tool palette for creating figures, rules, and illustrations. And, FrameMaker's book-building facility manages long, multichapter documents automatically with tables of contents, indexes, automatic numbering, and style control.

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FrameMaker is a registered trademark of Frame Technology Corporation.  
Looking Glass is a trademark of Visix.

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## NEW PRODUCTS - IN BRIEF

The following product briefs may be ordered from your local Sales Representative

Description	Part Number
<b>Applications Software</b>	
INTELLIBOOK	012-003425-00
INTELLIBOOK Product Brief	012-003625-01
BASELINK	012-003410-02

<b>AViiON Systems</b>	
AVX-30 X-Window	012-003579-00
AV 300 Workstation	012-003496-02
AV 400 Workstation	012-003622-02
AV 400 Technical Brief	012-003677-01
AV 4000 Multi-User System/Server	012-003773-00
AV 5010 Multi-User System/Server	012-003774-00
AV 5200 Multi-User System/Server	012-003497-04
AV 6000 SERIES	012-003589-01
DG/UX for AViiON	012-003568-02
DG/AVLIB Graphics Library	012-003783-00
PAD FOR AViiON	012-003743-00
SDLC AViiON	012-003764-00
SNA 3270 AViiON	012-003767-00
SNA AViiON	012-003763-00
SNA RJE AViiON	012-003768-00
X.25 FOR AViiON	012-003744-00
FRAME MAKER	012-003769-00

<b>Business Automation</b>	
CEO OBJECT OFFICE	012-003533-00
CEO OPTICAL ARCHIVER	012-003617-00
CEO SCANREADER	012-003537-00

<b>Communications Software</b>	
DG/PCI	012-003029-04
MS-NET	012-003028-01
ONC/NFS	012-003550-01
TCP/IP	012-002333-05
COMMUNICATIONS Server	012-003698-00
NETWARE For AViiON System	012-003757-00
NETWARE For MV Family System	012-003795-00
NETWISE RPC Tool	012-003792-00
NOVELL ADVANCED NETWARE V2.15	012-003791-00

<b>Communications Hardware</b>	
TermServer	012-003278-02
Model 5517 Series VMEbus/IEEE-488 Bus Interface	012-003846-00

<b>Input/Output</b>	
Model 5069 Series VMEbus Vector Processors	012-003844-00

<b>Languages</b>	
AOS/VS II TCP/IP	012-002333-05
AOS/VS II ONC/NFS	012-003782-00
DG/INGRES	012-003366-01
MS-DOS ICOBOL	012-002385-02
MICROFOCUS COBOL/2	012-003714-00
FORMS	012-003713-00

<b>Operating Systems</b>	
AOS/VS II	012-003382-01
386/ix	012-003352-02

<b>PC/Workstations</b>	
DASHER/286-12c	012-003615-00
DASHER/386 Product Brief	012-003356-00
DASHER/386-25 DOS	012-003609-00
DASHER/386sx	012-003590-00
DASHER/386SX-16	012-003786-00
DASHER/386-16c	012-003687-00
WALKABOUT/SX	012-003676-00
AV 200 Workstation	012-003861-00
AViiON 3200 Server	012-003860-00
DASHER/286-12J	012-003834-00
DASHER/386-25K	012-003821-00

<b>Peripherals</b>	
6594 DOT MATRIX	012-003491-00
DATASOUTH Printer 10692	012-003755-00
DATASOUTH Printer 10693	012-003754-00
DATASOUTH Printer 10696	012-003753-00
MOD 5070D Optical Disk	012-003062-00
MOD 6552 Optical Disk	012-003529-00
WALKABOUT Terminal	012-003514-01
OKIDATA MICROLINE 320/321	012-003811-00

<b>Processors</b>	
ECLIPSE MV/5500DC	012-003745-00
ECLIPSE MV/9500	012-003733-00
MV/18000	012-003686-00
MV/7800 XP	012-003236-03
AViiON AV6200 20-Slot VMEbus Sys	012-003847-00

<b>Services</b>	
AViiON Software Services	012-003830-00
ON-SITE SELECT Service <sup>SM</sup>	012-003882-00

<b>Systems Software</b>	
MXDB	012-003650-00
OpenPC	012-003632-00

**NEW PRODUCTS - IN BRIEF**



## SPOTLIGHT ON TRAINING

### CUSTOMER EDUCATION SCHEDULE

#### TYPES OF TRAINING OFFERED BY EDUCATIONAL SERVICES

A call to Educational Services Account Representatives at **1-800-876-DGED** will provide you with information on the following services and products:

**o Classroom Training** - Educational Services offers over eighty software and hardware classes. These courses are developed and taught by experts in the computer field. Software classes are offered at our Customer Education Centers located in Atlanta, Boston, Chicago, Los Angeles, New York, Washington, D.C. and Toronto. Hardware classes are available at the Boston Hardware Education Center. There is a Customer Education Catalog available which lists the entire course offerings of Data General Educational Services Department along with the current schedules and their respective locations.

**o Technical Seminars** - These high level technical seminars are conducted by expert instructors and cover a wide range of current technical topics. These innovative seminars are ideal for system managers and programmers who seek more advanced technical instruction. These seminars are available at conveniently located Education Centers around the country.

**o On-Site Classes** - All software and hardware classes are also available as On-Site Classes. This means that the classes are held at the customer's location. On-Site classes have many advantages such as the ability to tailor courses to cover the specific subjects that you, the customer, requires. In addition, On-Site classes are a cost effective alternative especially when large groups of people require training.

**o Computer-Based Training** - Computer Based Training (CBT's) are self paced learning programs that reside on your computer system. These courses can provide high quality interactive instruction to multiple users simultaneously. There is a complete listing of the computer-based training courses that are available to Data General customers in the Customer Education Catalog.

**o Audio/Video Self Study Courses** - These courses consist of audio and videotaped lectures with supporting text and reference materials. These courses cover a wide range of software and hardware topics and are also listed in the Customer Education catalog.

**o Documentation** - Important documentation for your Data General system is available through TIPS (Technical Information and Publications Service). This specialized service provides Data General Customers with quick convenient access to technical documentation packages, software manuals, programmer's handbooks, At A Glance Reference Guides and keyboard templates. In addition, Maintenance Service Guides (MSG's) and Maintenance Documentation Packages (MDP's) are available to those customers that have a qualified Maintenance Service Application on file with Data General. A complete listing of the documentation supporting Data General's hardware and software products can be found in the TIPS catalog.

<b>SPOTLIGHT ON TRAINING</b>
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**Educational Services  
DG/UX TRAINING SCHEDULE  
August 1990 - October 1990**

**LOS ANGELES TRAINING SCHEDULE****Software Courses**

Date	Course Title	Course #	Days
August 6	Data Communications & Networking	DC131	5
August 20	UNIX User	S205	5
August 27	DG/UX System Administration for AViiON	S288	5
Sept 10	Installing & Managing TCP/IP	DC260	5
Oct 1	C Programming in the DG Environment	S125	5
Oct 29	DG/UX System Programming	S315	5

**Hardware Courses**

Date	Course Title	Course #	Days
Oct 15	AViiON Foundations-Operations & Maintenance	H615	5

**Technical Seminars**

Date	Course Title	Course #	Days
Sept 19	X Windows Programming for C Programmers	SM488	3
Sept 24	OSF/Motif Programming for C Programmers	SM588	3
Oct 22	C + + Programming Workshop	SM133	5

**ATLANTA TRAINING SCHEDULE****Software Courses**

Date	Course Title	Course #	Days
August 13	XODIAC System Manager	DC220	5
August 20	DG/SQL Utilization & Design	S317	5
August 27	Installing & Managing TCP/IP	DC260	5
Sept 17	UNIX User	S205	5
Sept 24	DG/UX System Administration for AViiON	S288	5
Oct 15	Data Communications & Networking	DC131	5
Oct 29	C Programming in the DG Environment	S125	5

**Technical Seminars**

Date	Course Title	Course #	Days
August 7	Using Framemaker 1.3	SM460	3
Oct 1	C + + Programming Workshop	SM133	5
Oct 9	Network Interoperability	SM490	4

**CHICAGO TRAINING SCHEDULE****Technical Seminars**

Date	Course Title	Course #	Days
August 8	AViiON Architecture	SM421	1
August 9	Understanding & Using OSI Model Layers	SM498	1
August 13	Network Interoperability	SM490	4

## SPOTLIGHT ON TRAINING

### WASHINGTON D.C. TRAINING SCHEDULE

#### Software Courses

Date	Course Title	Course #	Days
August 6	Installing & Managing TCP/IP	DC260	5
August 20	C Programming in the DG Environment	S125	5
August 27	DG/UX System Programming	S315	5
Oct 29	UNIX User	S205	5

#### Technical Seminars

Date	Course Title	Course #	Days
Oct 3	X Windows Programming for C Programmers	SM488	3
Oct 8	OSF/Motif Programming for C Programmers	SM588	3

### BOSTON TRAINING SCHEDULE

#### Software Courses

Date	Course Title	Course #	Days
August 6	UNIX User	S205	5
August 13	DG/UX System Administration for AViiON	S288	5
Sept 17	C Programming in the DG Environment	S125	5
Sept 24	DG/UX System Programming	S315	5
Oct 8	UNIX User	S205	5
Oct 15	DG/UX System Administration	S288	5
Oct 22	Installing & Managing TCP/IP	DC260	5

#### Hardware Courses

Date	Course Title	Course #	Days
Oct 16	AViiON Architecture	SM421	1
Oct 17	Understanding & Using the OSI Model Layers	SM498	1

#### Technical Seminars

Date	Course Title	Course #	Days
August 22	X Windows Programming for C Programmers	SM488	3
August 27	OSF/Motif Programming for C Programmers	SM588	3
August 28	DG/SQL Design & Performance Workshop	SM520	3
Sept 5	AViiON Architecture	SM421	1
Sept 10	Network Interoperability	SM490	4
Oct 16	AViiON Architecture	SM421	1
Oct 17	Understanding & Using the OSI Model Layers	SM498	1

To register for any of the courses listed above, See "How to Enroll" at the end of the Educational Services section.

#### What's New in Educational Services

##### C Programming in the DG Environment S125

**Summary:** This valuable course introduces the student to the basic tools needed to write C code that conforms to the proposed ANSI standard. Major topics focus on compiling, linking and executing programs in both the AOS/VS and UNIX environments.

## SPOTLIGHT ON TRAINING

**Who Should Attend:** Programmers who want to understand the features and capabilities of "C"

**Prerequisites:** S209 (AOS & AOS/VS User) or S205 (DG/UX User), High level programming background (FORTRAN, PL/1) or strong Assembler background

**Course Benefits:**

- o You will learn the syntax of the C language.
- o You will learn how to create and use functions.
- o You will learn how to use the C library of functions in solving programming problems.
- o You will learn how to compile and link C source code in the AOS/VS and DG/UX environments.
- o You will learn how to use the various C Data types.

**Topics:** o Starting with C Statement and Flow Control Functions o User Defined Functions o Testing Functions

**Duration:** 5 days

### HOW TO ENROLL

One call to **1-800-876-DGED** puts you in touch with an Account Representative at Educational Services. This helpful, friendly individual is trained to make sure that you are registered for the course you want at the time and location that best meets your needs.

### Training Locations

- o Boston
- o Atlanta
- o Chicago
- o Los Angeles
- o Washington, D.C.
- o New York City
- o Toronto (For information, call 1-800-668-0712)

### HOW TO ORDER DOCUMENTATION

Call **1-800-876-DGED** to order by phone or FAX your order to 508-878-2382.

### EDUCATIONAL CONSULTANTS

When you need assistance with other on-site training programs, customized courseware or specialized training to meet unique needs, contact the Data General Educational Consultant nearest you:

Northeast	Mid Atlantic	Southeast/Midwest	Northwest/Southwest
Penny Mills	Wendy Moore	Kim Sarjeant	Nancy Wigmore
New York City	Washington, DC	Atlanta, GA	Los Angeles, CA
(212)319-4242	(703)827-9666	(404)441-2515	(213)536-0671

### INTERNATIONAL EDUCATION CENTERS

In addition, Data General operates training facilities throughout Europe, Japan and Australia. For information about these centers, contact your local sales office.

<b>DG/UX</b>
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**PROGRAMMING NOTES/DOCUMENTATION**


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**OS (DG/UX) REV 4.30 [overload]**

DG/UX 4.30 Overloading Issue With BBasic or X.25 Loaded

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sysadm maintains a file called ORDER in /usr/admin/menu that contains a list of menus that can be found in that directory. If DG/UX 4.30 was the only product loaded on your system, this file would contain 11 entries which correspond to the 11 menus that are discussed in the "Installing and Managing the DG/UX System" manual.

If Business Basic or X.25 has been loaded on your system, and you overload with DG/UX 4.30, the ORDER file and the number of menus in /usr/admin/menu may no longer correspond. In such instances, sysadm will return the error "ERROR: mkmenus: ORDER file has too many items" and exit.

If you have Business Basic or X.25 loaded on your system and wish to overload with DG/UX 4.30, contact your Data General representative for a script to prevent this problem from occurring.

**OS (DG/UX) REV 4.30 [system\_dump]**

Copying the System Image to Tape

-----

In the DG/UX 4.30 Release Notice, Section 9.4 "Notes on Tapes", step 2 explains the procedure for copying the system image onto the system dump tape. For clarification of the postscript printer font, the command to use is the following:

```
# mt -f /dev/rmt/0n fsf; cd /; echo dgux | cpio
  -ohBcv > /dev/rmt/0n
```

Insure that a space exists between "mt -f" and the tape device when spacing forward on the tape.

**OS (DG/UX) REV 4.30 [dbx]**

DG/UX 4.30 PATCH 4.30.00.06 IS NOW AVAILABLE

Instructions and purpose for patch number 4.30.00.06 to DG/UX 4.30.

This patch is to provide a new version of dbx which is compatible with the newest release of Green Hills Fortran (version 1.8.5). The patch consists of a tar file containing the new dbx, and the release notice for the patch. This is the new version of dbx mention in the 4.30 release notice. Note, it will not be distributed on the Green Hills 1.8.5 release tape as the notice stated. Contact your Data General representative for this patch.

**OS (DG/UX) REV 4.30 [lpsched]**

Lpsched Patch, DGUX\_4.30.00.03

A patch is now available which fixes a problem with the DG/UX 4.30 lpsched executable. The problem is symptomatic of a lp request returning the error message "Cannot create a new outputq". The problem is a timing issue between lpsched and the lp command releasing and obtaining the lock on the file outputq and should occur infrequently. The workaround to this problem without the patch is to restart lpsched and resubmit the lp command. This patch fixes STR NASC-5952.

This patch will be included in DG/UX 4.31 and supersedes DG/UX 4.20 lpsched patch, dgux\_4.20.00.32 and the DG/UX 4.30 lpsched.



<b>DG/UX</b>
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<b>STR ANSWER REPORT</b>
for International Multi-User DG/UX
AS OF 07-16-90

- STR:WEBO000036239  
ORIG-ID: BEL90029                      REV:     4.20

**PROBLEM SUMMARY:**

All printers hang, first one, then the others. Happens once or twice a day. Needs system reboot to get out.

**ANSWER SUMMARY:**

This problem was also reported as WEBO-36265. We will continue to track the problem under that number.

<b>STR ANSWER REPORT</b>
for Multi-User DG/UX
AS OF 07-16-90

- STR:NASC000006174  
ORIG-ID: Q53758                      REV:     4.22

**PROBLEM SUMMARY:**

Parent process will not go away after child process has been killed

**ANSWER SUMMARY:**

As we discussed in our telephone conversation we are closing this STR with your approval, as the DUMP tape you supplied with this STR was unreadable. Should this problem occur again on your system please feel free to submit another STR at that time.

- STR:NASC000003389  
ORIG-ID: Q883334                      REV:     4.02

**PROBLEM SUMMARY:**

Architectural clock overlay error occurs when trying to boot microcode revision 6.02 from disk on a MV/15000 mod 20. This works from tape.

**ANSWER SUMMARY:**

The problem that you reported will be corrected with a microcode fix. Since microcode is a hardware component, a Hardware Trouble Report (HTR) has been submitted on your behalf. Its number is ATLO-290. Please contact your hardware support organization for assistance in tracking this HTR to final resolution.





**DG/UX RM/COBOL****STR ANSWER REPORT**

for DG/UX RM/COBOL

AS OF 07-16-90

- STR:WEBO000133712  
ORIG-ID: 7111-DBSI.UX.                      REV:     1.00

**PROBLEM SUMMARY:**

RUNCOBOL (the runtime interpreter) does NOT initialize the TERMINFO environment in a consistent manner (noticed in the RM/COBOL supplied module "SUB").

**ANSWER SUMMARY:**

Since you are no longer experiencing this problem, we are closing this STR with your approval.

- STR:WEBO000133710  
ORIG-ID: 7111-DBSI.UX.                      REV:     1.00

**PROBLEM SUMMARY:**

RM/COBOL Compiler aborts when compiling LARGE programs.

**ANSWER SUMMARY:**

Since you are no longer experiencing this problem, we are closing this STR with your approval.

**DG/UX RM/COBOL**

## DG/UX OPERATING SYSTEM

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>DG/UX 4.30 is the standard operating system for Data General's line of industry-standard systems based on the Motorola 88100 Reduced Instruction Set Computer (RISC) microprocessor. DG/UX offers AViiON family support for workstations, servers, uniprocessor and N-way fully symmetric multiprocessors.</p> <p>DG/UX for AViiON systems is an advanced implementation of the UNIX® operating system based on AT&amp;T's System V.3 and the Berkeley Software Distribution.</p> <p>The DG/UX software may be bundled on the same tape with other products. In any case, DG/UX software components consist of :</p> <ul style="list-style-type: none"> <li>● DG/UX kernel, commands and libraries.</li> <li>● GNU C compiler</li> <li>● DTK: The Documenter's Tool Kit</li> </ul>	<p>Product: DG/UX™ System</p> <p>Model #: P001A</p> <p>Current Rev. 4.30    SSS Shipped: 07/90</p> <p>Previous Rev:            4.22 Support Effective Until: 01/01/91</p> <p>Release Notice:        085-600125-03</p>

### DOCUMENTATION

Title	Part Number
DTK Release Notice	085-600139-02
GNU-C Release Notice	085-600128-02
Learning UNIX Operating System	069-701042-00
Using DTK on the DG/UX System	069-701039-00
DTK Technical Summary for the DG/UX System	069-701041-00
Using the DG/UX System	069-701035-01
Using the DG/UX Editors	069-701036-01
Porting Applications to the DG/UX System	069-701059-02
Portable Operating system Interface (POSIX)	069-701045-00
POSIX.1 Conformance Document for the DG/UX System	069-701078-00
C: A Reference Manual (Harbison/Steele)	069-100226-00
Using GNU CC (Stallworth)	069-100317-01
STREAMS Primer for the DG/UX System	069-701033-00
Installing DG/UX on an AViiON Workstation with a Hard Disk	069-000520-02
Object Compatibility Standard	069-701044-01
STREAMS Programmer's Guide	069-701034-00
BINARY Compatibility Standard	069-701043-01

<b>DG/UX OPERATING SYSTEM</b>
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Title	Part Number
Installing and Managing the DG/UX System	093-701052-02
Writing Device Driver for the DG/UX System	093-701053-03
User's Reference for the DG/UX System	093-701054-01
System Manager's Reference for the DG/UX System	093-701050-01
Programmer's Reference for the DG/UX System (V.1)	093-701055-01
Programmer's Reference for the DG/UX System (V.2)	093-701056-01
Using DG/UX System Kernal Debugger	093-701075-00
Programming in the DG/UX System Application Environment	093-701076-00
Using DG/UX Software Development Tools	093-701078-00
** Overview of the DG/UX Application Environment	069-701082-00
** Programming in the Kernal Environment	093-701083-00

\*\* These manuals will be available in the Fall of 1990. In addition, "Writing a Device Driver for the DG/UX System" will undergo a major restructuring and be available in the Fall of 1990 under the new part number 093-701085-00.

There are extensive changes to chapter 2 of Installing and Managing the DG/UX System. Make sure you have this **before** installing release 4.30

## GNU C COMPILER

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>GNU C is an ANSI-compliant C compiler that is also compatible with PCC. GNU C supports a high level of optimization, subject to user control through various command-line options. The GNU compiler offers a number of extensions to ANSI C, including the 'asm', 'typeof', and 'inline' constructs. GNU C adheres to the 88open Object Compatibility Standard [OCS] in terms of assembler code generated, calling sequence, and alignment.</p>	<p>Product: GNU C COMPILER</p> <p>Model #: P001A</p> <p>Current Rev. 1.37.8    SSS Shipped: 07/90</p> <p>Previous Rev:            1.35.21 Support Effective Until: 01/01/91</p> <p>Release Notice:        085-600128-02</p> <p style="text-align: center; margin-top: 20px;"><b>For documentation information refer to DG/UX™ SYSTEM Model P001A in Section 3 page 19-1</b></p>

**GNU C COMPILER**

## GNU C COMPILER

### STR ANSWER REPORT

for DG/UX GNU C FOR AVIION

AS OF 07-16-90

- STR:UKSC000039678  
ORIG-ID: GNU C COMPILE           REV: 135.21

**PROBLEM SUMMARY:**

C routine when compile with GNU C causes the compiler to abort.

**ANSWER SUMMARY:**

This failure was due to a problem in generating the code for the compare. The problem is fixed in revision 1.36.5 or subsequent revision of GNU C which will be shipped with DG/UX 4.30.

- STR:FRA 000000524  
ORIG-ID: FRANCOIS RICH           REV: 135.21

**PROBLEM SUMMARY:**

Compile time very long and sometimes problems with swap area space with "cc" and without "ghcc" (with the -O option of the compiler). we can't use the "cc" compiler with some files.

**ANSWER SUMMARY:**

The symptoms you report is due to the fact that the function being optimized is quite large. This can be expected to result in lengthy compile times and extreme memory usage. You can avoid this by simplifying the program. The symptoms concerning time and swapping behavior can be expected to change with DG/UX revision 4.30.

- STR:NASC000005807  
ORIG-ID: Q031381                   REV: 4.20

**PROBLEM SUMMARY:**

The error - "as: /usr/tmp/cca19187.s: forward referenced tag \_4fake not found", is returned by the GNU C compiler when invoked with the -g(debug) switch.

**ANSWER SUMMARY:**

The problem you report is corrected in the revision of GNU C which will be released with revision 4.30 of DG/UX. However, your program will now generate warning messages due to the fact that structures are being declared within function parameters. This is not a recommended practice, please refer to page 227 of "C A REFERENCE MANUAL" by Harbison and Steele.

- STR:JAPN000000352  
ORIG-ID: NDG 2209                   REV: 4.20

**PROBLEM SUMMARY:**

GCC treat '\)' as warning.

**ANSWER SUMMARY:**

The warning you describe is appropriate. When the ANSI C standard specifies that a behavior is undefined, it is useful to have the compiler emit a warning that the given construct should not be used.

- STR:NASC000005783  
ORIG-ID: CACI-0509                   REV: 1.35

**PROBLEM SUMMARY:**

Double to int/long conversion for a negative number is wrong.

**ANSWER SUMMARY:**

The problem you report is resolved in Revision 1.37.8 or subsequent revision of GNU C, which will be released with revision 4.30 of DG/UX.

**GNU C COMPILER**



**DG/UX DOCUMENTER'S TOOL KIT (DTK)**

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>DTK 2.10 is a set of text processing tools ported from AT&amp;T Documenter's Workbench, revision 2.00. This includes support for 240 dot per inch resolution (with: troff -Ti10) on Imagen™ laser printers. Scaling capability (via the -r 300 option of di10(1)) has also been added so that 240 dpi fonts can be used on the 300 dpi Imagen laser printers.</p>	<p>Product: DG/UX DOCUMENTER'S TOOL KIT (DTK)</p> <p>Model #: P001A</p> <p>Current Rev. 2.10      SSS Shipped: 07/90</p> <p>Release Notice:      085-600139-02</p> <p><b>For documentation information refer to DG/UX™ SYSTEM Model P001A in Section 3 page 19-1</b></p>

**DG/UX[1] DOCUMENTER'S TOOL KIT (DTK)**

## ONC/NFS SYSTEM

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>ONC/NFS for AVIIION Systems release 4.30 is a part of SunOS version 4.0 ONC/NFS source code to Data General's AVIIION family of computers.</p>	<p>Product: ONC/NFS SYSTEM</p> <p>Model #: C002A</p> <p>Current Rev. 4.30      SSS Shipped: 07/90</p> <p>Previous Rev:            4.20 Support Effective Until: 01/01/91</p> <p>Release Notice:        085-600133-02</p>

### DOCUMENTATION

Title	Part Number
Managing NFS and Its Facilities on the DG/UX System	093-701049-02
Installing and Managing the DG/UX System	093-701052-02

**ONC/NFS SYSTEM**

**ONC/NFS SYSTEM****STR ANSWER REPORT**

for DG/UX NFS FOR AVIION

AS OF 07-16-90

- STR:UKSC000039230  
ORIG-ID: DG/UX - EXPOR                      REV:     4.20

**PROBLEM SUMMARY:**

Customer is unsuccessfully attempting to export a filesystem from the local disc of a client which was booted over NFS.

**ANSWER SUMMARY:**

This problem has been fixed in DG/UX 4.30.

- STR:UKSC000038306  
ORIG-ID: FAILING MOUNT                      REV:     4.20

**PROBLEM SUMMARY:**

Customer receives RPC AUTHENTICATION ERROR when attempting to mount a remote file system.

**ANSWER SUMMARY:**

The Sniffer dump indicates that the remote machine does not accept mount requests which contain more than 8 group memberships for the user, in this case root, requesting the mount. This behavior requires modification of the other vendor's mountd.

- STR:NASC000006018  
ORIG-ID: Q45017                                      REV:     4.20

**PROBLEM SUMMARY:**

Clients (av400) of a av4000 lose contact with the server and hang waiting for a response from nfs.

**ANSWER SUMMARY:**

The problem your STR reports is corrected in revision 4.30 of TCP/IP.

**ONC/NFS SYSTEM**

<b>DG TCP/IP (DG/UX)</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>TCP and IP are communications protocols used on a large number of networks. This package consists of the additional software necessary to allow Data General's DG/UX™ operating system to communicate over those networks. Currently supported are connection to Ethernet® networks via the Interphase V/Ethernet 3207 Hawk (hken) and Integrated Ethernet (inen) Controller. Kernel support for these devices is part of the DG/UX package. Wide-area networking using the DG/UX X.25 release 2.0 package with IXE is also supported with TCP/IP 4.30 using the Systech VSC/3 or VSC/4 controllers.</p> <p>The DG TCP/IP (DG/UX) package includes kernel support for these devices and the TCP, UDP, IP, ICMP, ARP and RARP protocols. It also includes user commands and server daemon processes that support the FTP, TFTP, Telnet, and SMTP protocols and the Berkeley R commands from outside the kernel. TCP, IP, FTP, SMTP, and Telnet comply with the military specifications for those protocols.</p>	<p>Product: DG TCP/IP (DG/UX)</p> <p>Model #: C001A</p> <p>Current Rev. 4.30      SSS Shipped: 07/90</p> <p>Previous Rev:            4.20  Support Effective Until: 01/01/91</p> <p>Release Notice:        085-600132-02</p>

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## DOCUMENTATION

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Title	Part Number
DG TCP/IP (DG/UX™) User's Manual	093-701023-02
Programming with DG TCP/IP (DG/UX™)	093-701024-01
Installing and Managing DG TCP/IP (DG/UX™)	093-701051-03

**DG TCP/IP (DG/UX)**





**DG TCP/IP (DG/UX)**

<b>DG/UX X WINDOWS</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>DG/UX X Windows is a combination of the X Window System™, Motif™, and Looking Glass®. The X Window System consists of an X server, a set of X clients, programming libraries, and on-line documentation. The X server manages a raster display and related input devices. X clients are applications which communicate with the X server to perform terminal emulation, window management, and other necessary functions. The subroutine libraries allow programmers to implement applications of their own.</p> <p>Motif consists of the mwm window manager, a User Interface Language (uil) compiler, subroutine libraries, demos, and on-line documentation. Motif is a derivate product to Open Software Foundation, Inc's OSF/Motif™.</p> <p>Looking Glass is a desktop manager for the X Window System. It provides a visual environment for running programs and manipulating files. Extensive use of icons and Moif compliance provide power and ease of use. Refer to the Looking Glass Release Notice (085-600204) for details on use and installation of Looking Glass.</p>	<p>Product: DG/UX X WINDOWS</p> <p>Model #: H001A</p> <p>Current Rev. 4.30                      SSS Shipped: 07/90</p> <p>Previous Rev:                              4.20 Supporte Effective Until: 01/01/91</p> <p>Release Notice:                              085-600134-02</p>

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## DOCUMENTATION

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Title	Part Number
AVX-30 Release Notice	085-600144-02
Framemaker Release Notice/English	085-600223-00
Looking Glass Release Notice	085-600224-00
xlib Programming Manual	069-100227-00
xlib Reference Manual	069-100228-00
X Windows System User's Guide	069-100229-00
OSF/Motif Programmer's Reference	069-100325-00
OSF/Motif Style Guide	069-100323-00
OSF/Motif Application Environment Specification	069-100326-00
OSF/Motif Programmer's Guide	069-100324-00

**DG/UX X WINDOWS**

## DG/UX X WINDOWS

### STR ANSWER REPORT

for DG/UX X WINDOWS FOR AVIION  
AS OF 07-16-90

- STR:NASC000006267  
ORIG-ID: Q059317                      REV:      4.22

**PROBLEM SUMMARY:**

The data type bool in /usr/include/X11/Xresource.h in NOT defined. It causes a parse error when this file is included in a "C" program

**ANSWER SUMMARY:**

The type bool is declared in Xlib.h. According to the Xlib Programming Manual, "To use all the functions in the X library, you need to include <X11/Xlib.h>, <X11/Xutil.h>, <X11/keysym.h>, and <X11/Xresource.h>. Including <X11/Xlib.h> before <X11/Xresource.h> will allow your program to compile correctly.

- STR:UKSC000040180  
ORIG-ID: XPOLLYGONFILL              REV:      4.20

**PROBLEM SUMMARY:**

X function XPolygonFill() does not always stay within the bounds of the polygon being filled.

**ANSWER SUMMARY:**

The problem you reported is fixed in the forthcoming release of DG/UX X Windows for AViiON Systems, revision 4.30.

- STR:NASC000006168  
ORIG-ID: Q053933                      REV:      4.20

**PROBLEM SUMMARY:**

Program from volume four of THE DEFINITIVE GUIDES TO THE X WINDOW SYSTEM, fails with "cursor must belong to superclass before it can be changed".

**ANSWER SUMMARY:**

Paragraph 4 of the Preface of Volume Four of "The Definitive Guides to the X Window System" says that the book is based on the X11R3 Intrinsics and the Athena widget set. Data General supports the Motif widget set. The Athena widget set and a compatible version of the Xt intrinsics can be obtained from the Contributed Software for AViiON Systems (Model #R006AZN20A).

- STR:NASC000006009  
ORIG-ID: Q026340                      REV:      4.20

**PROBLEM SUMMARY:**

When setting (trying to set) the background of an AVX/30 to fullmoon.xbm the fullmoon never displays. The fullmoon.xbm is in /usr/include/X11/bitmaps, The file size is 665369 and the "sum fullmoon.xbm" is 1308, 1300.

**ANSWER SUMMARY:**

The problem you reported has been fixed in DG/UX 4.30.

- STR:NASC000005914  
ORIG-ID: Q26659                      REV:      4.20

**PROBLEM SUMMARY:**

We would like to be able to switch between 80 column mode and 132 column on our Aviiion system. We are unable to switch from 132 column mode to 80 column mode.

**ANSWER SUMMARY:**

The numbers used for the Ps value in the string should be represented by their ASCII octal character code. Therefore use the following strings to change modes 80->132 \033\0133\077\063\0150 132->80 \033\0133\077\063\0154

- STR:FRA 000000525  
ORIG-ID: FRANCOIS RICH              REV:      4.20

**PROBLEM SUMMARY:**

Processus which are not killed while outgoing from X-WINDOWS and which are consuming CPU time.

**ANSWER SUMMARY:**

We could not reproduce the problem you reported, however using the kill -9 option is not recommended to terminate the \$XSERVERPID. You should only use kill \$XSERVERPID.

- STR:FRA 000000523  
ORIG-ID: FRANCOIS RICH              REV:      4.20

**PROBLEM SUMMARY:**

1) Error messages upon booting 2) Bad function\_of .xdefaults file and xstart.sh file

**ANSWER SUMMARY:**

All but one of the problems you reported can be avoided by reading the release notice and appropriate man pages.

The problem requiring an .Xdefaults file in your home directory is fixed in DG/UX revision 4.30.

**DG/UX X WINDOWS**

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<b>GREEN HILLS C-88000®</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Green Hills C-88000 is an optimizing compiler developed by Green Hills Software, Inc. Green Hills C-88000 is a globally optimizing replacement for the standard DG/UX cc(1) compiler. Green Hills C-88000 adheres to the 88open Object Compatibility Standard conventions for alignment and calling sequence. The Green Hills C-88000 is fully compatible with the Green Hills Fortran-88000 and Pascal-88000 compilers available as separate products.</p>	<p>Product: GREEN HILLS C - 88000 ®</p> <p>Model #: L001A</p> <p>Current Rev. 1.8.5.01 SSS Shipped: 07/90</p> <p>Previous Rev: 1.8.4 Support Effective Until: 01/01/91</p> <p>Release Notice: 085-600122-01</p>

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### DOCUMENTATION

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Title	Part Number
GREEN HILLS SOFTWARE USER'S MANUAL C-88000	069-100230-01

**GREEN HILLS C-88000®**



<b>GREEN HILLS FORTRAN-88000®</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Green Hills Fortran-88000 is an optimizing compiler developed by Green Hills Software, Inc. Green Hills Fortran-88000 is a gobally optimizing replacement for the standard DG/UX f77 (1) compiler. The Green Hills Fortran-88000 is fully compatible with the Green Hills C-88000 and Pascal-88000 compilers available as separate products.</p>	<p>Product: GREEN HILLS FORTRAN-88000 ®</p> <p>Model #: L002A</p> <p>Current Rev. 1.8.5.01 SSS Shipped: 07/90</p> <p>Previous Rev: 1.8.4 Support Effective Until: 01/01/91</p> <p>Release Notice: 085-600123-01</p>

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### DOCUMENTATION

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Title	Part Number
Green Hills Software User's Manual Fortran-88000	069-100232-01
Green Hills Fortran Reference Manual	069-100369-00

**GREEN HILLS FORTRAN-88000®**

**GREEN HILLS FORTRAN-88000®****STR ANSWER REPORT**

for GREEN HILLS FORTRAN 77 FOR  
AVIION UNIX  
AS OF 07-16-90

- STR:UKSC000039032  
ORIG-ID: GHF77 -I SWIT                      REV:     1.84

**PROBLEM SUMMARY:**

The GreenHills F77 compile switch -i causes incorrect results to be given for integer exponentiation.

**ANSWER SUMMARY:**

Fixed in revision 1.8.5 of GreenHills F77.

- STR:UKSC000038623  
ORIG-ID: GHF77 + DBX                      REV:     1.84

**PROBLEM SUMMARY:**

dbx returns error when attempting to debug GreenHills fortran programs.

**ANSWER SUMMARY:**

Fixed in revision 4.30 of DG/UX and 1.8.5 of Green Hills F77.

- STR:NASC000006016  
ORIG-ID: 900502                              REV:     1.84

**PROBLEM SUMMARY:**

"List directed" input of double precision numbers fail to recognize "d" or "D" format.

**ANSWER SUMMARY:**

This problem will be resolved in revision 1.8.5 of Greenhills F77. Please upgrade to this revision when it becomes available.

- STR:NASC000006015  
ORIG-ID: 900501                              REV:     1.84

**PROBLEM SUMMARY:**

Missing "BERKELEY COMPATIBLE" Libraries from Fortran Package.

**ANSWER SUMMARY:**

Green Hills F77 for AViION Systems does not include Berkeley libraries. This product is intended to be ANSI compliant FORTRAN 77, and to include DOD MIL-STD 1753 extensions plus almost all DEC VAX/VMS FORTRAN extensions. There are no plans to include support for Berkeley libraries in this product.

**GREEN HILLS FORTRAN-88000®**

<b>GREEN HILLS PASCAL-88000®</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Green Hills Pascal-88000 is an optimizing compiler developed by Green Hills Software, Inc. Green Hills Pascal-88000 is a globally optimizing replacement for the standard DG/UX pc(1) compiler. The Green Hills Pascal-88000 is fully compatible with the Green Hills C-88000 and Fortran-88000 compiler available as separate products.</p>	<p>Product: GREEN HILLS PASCAL-88000 ®</p> <p>Model #: L003A</p> <p>Current Rev. 1.8.5.01 SSS Shipped: 07/90</p> <p>Previous Rev: 1.8.4 Support effective until: 01/01/91</p> <p>Release Notice: 085-600124-01</p>

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**DOCUMENTATION**


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Title	Part Number
Green Hills Software User's Manual Pascal-88000	069-100231-01
Green Hills Pascal Reference Manual	069-100368-00

**GREEN HILLS PASCAL-88000 ®**

**Mxdb for AVIIION™ SYSTEMS****STR ANSWER REPORT**

for Multi-extensible Debugger for Aviiion  
Sys

AS OF 07-16-90

- STR:WEBO000036277  
ORIG-ID: DD.MXDB.STR.1      REV:      1.00

**PROBLEM SUMMARY:**

MXDB version 1.00 does not work the same under  
DG/UX 4.30 pass 4.4 as it does in DG/UX 4.20.

**ANSWER SUMMARY:**

Due to changes in the DG/UX 4.30 kernel, Mxdb  
revision 1.00 will not run on this revision. Revision 1.10  
of Mxdb is required.

**Mxdb for AVIION™ SYSTEMS**



**SDLC for AViiON™ SYSTEMS**

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>SDLC for AViiON Systems is the AViiON Synchronous Communications Package which supports Synchronous Data Link Control protocols on a switched or dedicated communication line. It can operate as a multipoint tributary or as a primary point to point link station.</p>	<p>Product: SDLC for AViiON™ SYSTEMS</p> <p>Model #: C010B</p> <p>Current Rev. 2.10      SSS Shipped: 07/90</p> <p>Previous Rev:            2.00 Support Effective Until: 01/01/91</p> <p>Release Notice:        085-000556-01</p>

**DOCUMENTATION**

Title	Part Number
Using SNA for AViiON Systems	093-000676-00

**SDLC for AVIION™ SYSTEMS**

**SDLC for AViiON™ SYSTEMS****PROGRAMMING NOTES/DOCUMENTATION****SDLC (AViiON) Rev 2.10**

Problem with certain SNA/SDLC multidrop configurations

Under revisions 2.10 and 2.00 of SDLC for AViiON Systems, users with multiple active links, where one link is attached to an SNA multidropped line, may experience some link level difficulties. For customers with this type of configuration, please contact your Data General service representative.

**SDLC (AViiON) Rev 2.10**

New SDLC update required for AViiON systems running DG/UX 4.30

For installations running revision 2.00 of SDLC for AViiON Systems, an upgrade to revision 2.10 of SDLC for AViiON Systems is required for users who are planning to install DG/UX revision 4.30.

Revision 2.10 of SDLC for AViiON systems is now available.

**SDLC for AVIION™ SYSTEMS**

**SNA 3270 for AVIION™ SYSTEMS****STR ANSWER REPORT****for SNA 3270 FOR AVIION SYSTEMS****AS OF 07-16-90**

- STR:NASC000005819  
ORIG-ID: WGH01                      REV:    2.00

**PROBLEM SUMMARY:**

SNA sends a + RESPONSE to the pacing indicator immediately after an INBOUND I-FRAME, but waits for 4-7 seconds to send the + RESPONSE to the DR1, pausing cascades throughout the session and results in unsatisfactory reponse time.

**ANSWER SUMMARY:**

This problem is resolved in revision 2.01 of de3270. We understand this version has proven satisfactory for your needs.

**SNA 3270 for AVIION™ SYSTEMS**

**BUSINESS BASIC for 386/ix**

**STR ANSWER REPORT**

for BUSINESS BASIC FOR 386/IX

AS OF 07-16-90

- STR:NASC000005654  
ORIG-ID: GPC041890                      REV:    1.00

**PROBLEM SUMMARY:**

If you make a call to a UCALL that does not exist, the system will hang. Likewise, if you make a UCALL to one that does exist the system will hang.

**ANSWER SUMMARY:**

This problem with the UCALL statement is corrected in the next revision or update after revision 1.01 of Business BASIC for Dasher/386 systems.

**BUSINESS BASIC for 386/ix**





**386/ix BASE RUNTIME MULTI USER**

## BUSINESS BASIC for AVIIION SYSTEMS

### STR ANSWER REPORT

for BUSINESS BASIC FOR AVIIION SYS-  
TEMS

AS OF 07-16-90

- STR:WEBO000036305  
ORIG-ID: BEL90031                      REV:     1.01

**PROBLEM SUMMARY:**

When doing a print of character decimal "174" the terminal get blocked and after 1 minute screen is full of strange characters.

**ANSWER SUMMARY:**

This problem with PRINT "< 174 >" is corrected in revision 1.02 of Business BASIC on AViiON systems.

- STR:WEBO000036253  
ORIG-ID: BEL90031                      REV:     1.01

**PROBLEM SUMMARY:**

When doing a print of character decimal "174" the terminal get blocked and after 1 minute screen is full of strange chars.

**ANSWER SUMMARY:**

This problem with doing a PRINT "< 174 >" where strange characters are printed is corrected in the next revision or update after 1.01 of Business BASIC for AViiON systems.

- STR:UKSC000040075  
ORIG-ID: STMA 9 STRING                REV:     1.01

**PROBLEM SUMMARY:**

UX/BBASIC 1.01, An STMA 9,0,X\$ returns a string which is of the form 'userid 8' where userid varies in length. In VS/BBASIC X\$ was always 6 bytes in length which allowed the 6th byte to be interrogated to determine the terminal type.

**ANSWER SUMMARY:**

This problem with the STMA 9,0,X\$ statement is corrected in the next revision or update after revision 1.01 of Business BASIC for AViiON systems.

- STR:UKSC000040046  
ORIG-ID: LFU LRENAME/L                REV:     1.01

**PROBLEM SUMMARY:**

UX/BBASIC 1.01, When BBASIC is started with the -P switch, LFU LRENAME and LFU LDELETE utility returns I/O error 10 - file does not exist for a data base file that exists in the current working directory.

**ANSWER SUMMARY:**

This problem with the LFU LRENAME and LFU LDELETE utility is corrected in the next revision or update after revision 1.01 of Business BASIC for AViiON systems.

- STR:UKSC000039468  
ORIG-ID: SCREEN CTR CO                REV:     1.01

**PROBLEM SUMMARY:**

UX/BBASIC 1.01, Screen format 'script', which uses D400 codes, is printed to a screen to produce a menu, now when used under UX/BBASIC (& VT220) will display with some fields displaced. Certain CTR-P codes are not interpreted correctly.

**ANSWER SUMMARY:**

We are unable to reproduce the problem described with the screen file and program supplied. We understand that this is the same problem reported in UKSC-37827, so we will work with the files supplied with that Software Trouble Report.

- STR:UKSC000039463  
ORIG-ID: STMA 12 HANG                REV:     1.01

**PROBLEM SUMMARY:**

UX/BBASIC 1.01, STMA 12 with all variables (arguments) set to 0 causes the BBASIC interpreter to hang. This is not the case under VS/BBASIC 5.11.

**ANSWER SUMMARY:**

This problem with STMA 12 is corrected for the next revision of DG/UX Business BASIC after revision 1.01. A replacement library, stma.a, is available to correct this problem in revision 1.01.

- STR:NASC000006190  
ORIG-ID: PRO9                            REV:     1.01

**PROBLEM SUMMARY:**

If a program is loaded and then you attempt to do a LIST "@LPT", it will create a file called @LPT and won't print.

**ANSWER SUMMARY:**

This problem with LIST "@LPT" is corrected for revision 1.02 of Business BASIC for DG/UX systems.



**ICOBOL for 386/ix****PROGRAMMING NOTES/DOCUMENTATION****ICOBOL (IX) REV 1.51****IX-COBOL-I Replacement Runtime System (icx)**

A new replacement runtime system has been released to correct some problems discovered in Interactive COBOL 1.51 on 386/ix. This runtime system contains these new fixes as well as the fixes contained in a previous released replacement module. This new module will fix five problems and will result in the following corrected behavior:

- \* The runtime system will no longer incorrectly turn off ixon. The flow control problem shown by running some programs at 19200 baud or frequently exhibited with D412+ and D462+ terminals has been fixed. Screen corruption and characters being lost will no longer occur.

- \* 8 bit characters will now correctly be redisplayed in a SCREEN USING field.

- \* The START statement will now raise a file status code of 23 when trying to start on a key which is greater than the last key in the file.

- \* The START statement will now perform correctly when positioning the record pointer on an alternate key that has been rewritten. A runtime system panic, hang or improper retrieval of records will no longer occur.

- \* Writing records directly to a printer will no longer cause defunct processes to occupy pids until the runtime system is brought down. The runtime system will now correctly wait for signals from child processes and clean up printing processes appropriately when the print file is closed.

**ICOBOL for 386/ix**

## ICOBOL for AVIION (Unlimited Users)

### STR ANSWER REPORT

for INTERACTIVE COBOL FOR AVIION  
SYSTEMS

AS OF 07-16-90

- STR:WEBO000036266  
ORIG-ID: BEL90035                      REV:    1.51

**PROBLEM SUMMARY:**

AX Icobol compiler is generating bad metacode for COMPUTE statement.

**ANSWER SUMMARY:**

This will be fixed in revision 1.60 of the compiler. The compiler will no longer generate bad metacode for the COMPUTE statement.

- STR:NASC000006252  
ORIG-ID: E58942                      REV:    1.51

**PROBLEM SUMMARY:**

Receiving error "not a legal COBOL program file" when attempting to execute ICOBOL programs transported from a RDOS ICOBOL system.

**ANSWER SUMMARY:**

The reason that these few programs will not execute with Interactive COBOL on DG/UX is because the runtime system performs a sanity check to ensure that the object files being executed are not corrupt. This is done by comparing the compilation size recorded in the .pd file to the actual file size. If the sizes don't agree or aren't a multiple of each other, then an error is reported.

- STR:NASC000005941  
ORIG-ID: Q30784                      REV:    1.51

**PROBLEM SUMMARY:**

Problems with print files not being printed when the program has been chained.

**ANSWER SUMMARY:**

Open pipe files will now be closed by the runtime system during a chain. This problem is corrected in revision 1.60 of ICOBOL on DG/UX and 386/ix.

- STR:NASC000005826  
ORIG-ID: E58762                      REV:    1.51

**PROBLEM SUMMARY:**

ICVERIFY reporting the index file is error free but when an application program accesses the file, the program aborts with "runtime system panic, abnormal signal, memory fault core dumped".

**ANSWER SUMMARY:**

Problem is not with ICVERIFY but with MINISAM. MINISAM failed to correctly search through a B-tree node of rewritten alternate keys until finding a key in a different terminal node. Fixed in revision 1.60.

**ICOBOL for AVIION (Unlimited Users)**



**PAD for AViiON SYSTEMS**

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>The PAD for AViiON Systems product provides support the X.3, X.28, and X.29 protocols to run over an X.25 link (provided by the X.25 for AViiON System product). It allows you to configure remote terminals on an AViiON system that operate just like locally attached terminals. At the remote site, these terminals would be attached to an X.25 PAD (Packet Assembler/Disassembler communications system or PAD service). The PAD for AViiON Systems package also allows users on locally attached terminals (or workstations running terminal emulators) to have access to remote X.25 hosts (AViiON or other) that have X.25 remote terminal support.</p>	<p>Product: PAD for AViiON SYSTEMS</p> <p>Model #: C009A</p> <p>Current Rev. 2.00                      SSS Shipped: 07/90</p> <p>Previous Rev:                            1.00</p> <p>Support Effective Until:            01/01/91</p> <p>Release Notice:                        085-600151-01</p>

**DOCUMENTATION**

Title	Part Number
Setting Up and Managing PAD on the DG/UX System	093-701073-01
Using PAD on the DG/UX System	069-701079-01

**PAD for AVIION SYSTEMS**

## X.25 for AViION SYSTEMS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>The X.25 for AViION System product provides wide area networking support for the AViION series of computers. The basic wide area support provided by the X.25 product makes possible communication with compatible X.25 systems over Packet Switched Data Networks (PSDNs). It provides a full featured X.25 DTE implementation supporting both the 1980 and 1984 CCITT specifications. The X.25 for AViION Systems product also provides limited DCE functionality to support communication with other AViION Systems over directly connected lines (no intervening PSDN).</p>	<p>Product: X.25 for AViION SYSTEMS</p> <p>Model #: C008A</p> <p>Current Rev. 2.00                      SSS Shipped: 07/90</p> <p>Previous Rev:                              1.00 Support Effective Until:                01/01/91</p> <p>Release Notice:                            085-600150-01</p>

### DOCUMENTATION

Title	Part Number
Setting Up and Managing X.25 on the DG/UX System	093-701071-01
Programmer's Reference for the X.25 Provider Interface on the DG/UX System	093-701082-00

**X.25 for AVIION SYSTEMS**

**LPI COBOL-85 for AVIION**

**STR ANSWER REPORT**

for LPI COBOL FOR AVIION

AS OF 07-16-90

- STR:NASC000005917  
ORIG-ID: Q23655                      REV: 6.00

**PROBLEM SUMMARY:**  
REDEFINES in LPI-COBOL are not working.

**ANSWER SUMMARY:**  
LPI COBOL adheres to the 88Open standard in this respect. Any implementation of a change to allow modification of alignment within a structure will be treated as a request for enhancement.

**LPI COBOL-85 for AVIIION**

**LPI PL/1 for AVIION**

**STR ANSWER REPORT**

for LPI PL/1 FOR AVIION

AS OF 07-16-90

- STR:NASC000005471  
ORIG-ID: E058587                      REV:    3.04

**PROBLEM SUMMARY:**

Request for enhancement to add the named variable capability to an external variable declaration, such that LPI-PL1 would be able to use external mixed case variables.

**ANSWER SUMMARY:**

This enhancement will be implemented in the next revision of the LPI-PL1 compiler and library.

**LPI PL/1 for AVIION**



**NETWARE SERVICES for AViiON SYSTEMS****PROGRAMMING NOTES/DOCUMENTATION****NW\_TRAN (AX)****NEW FILES REQUIRED TO RUN NETWARE FOR AViiON WITH DG/UX 4.30**

If you plan to run NetWare for AViiON System with DG/UX 4.30, you must get some updated files before you attempt to build a new DG/UX kernel. Without these files, you will encounter link errors when building a new kernel. These files are available from your local Data General office or Customer Support Center.

Once loaded, these files will work with either DG/UX 4.22 or 4.30. These files will be included with the next release of NetWare Transport for AViiON Systems.

**NETWARE (AX)****NETWARE FOR AViiON SUPPORT OF DISKLESS WORKSTATIONS**

NetWare for AViiON Systems fully supports Novell's scheme for workstations, often diskless, booting off the file server. Novell calls this the Remote Reset option. To use Remote Reset, the workstation's LAN card must be fitted with a Remote Reset PROM. In addition, the DOSGEN program must be run to create a boot disk image on the server. Most Novell server software installation manuals, including the NetWare for AViiON Systems Installation manual, give instructions on how to do this.

There are several companies that sell the Remote Reset PROMs that you need to boot off the server. Novell sells a few, but not many. We have successfully used a product called BootWare from Lanworks Technologies. Contact information for them is:

Lanworks Technologies  
3218 Wharton Way  
Mississauga, Ontario, Canada L4X 2C1  
Tel. (416) 238-5528 FAX: (416) 238-9407

We chose this product since they have PROMs available for a wide range of LAN cards. They also have PROMs that can handle the Ethernet II frame format that NetWare for AViiON Systems Rev. 1.00 requires, and that is needed if you share your NetWare LAN with MVs, other AViiONs, etc. There are no plans at the current time for Data General to manufacture or resell Remote Reset PROMs.

Some things to keep in mind if you plan on using a Remote Reset PROM with NetWare for AViiON:

- \* As mentioned above, rev. 1.00 of NetWare for AViiON Systems only supports the Ethernet II frame format using the 8137 frame ID. If you want to boot off the AViiON, you must have a PROM that uses this frameformat. Lanworks offers a full line of PROMs that use the Ethernet II frame format.
- \* Most PROMs, including the BootWare PROMs, will attach and try to boot from the first file server they find. If you have a mix of NetWare 2.15 or 386 servers and AViiON servers, you'll probably attach to a non AViiON server first. In multi-server setups you must have a boot image file on EVERY server.
- \* Once you attach and boot from a server, you can use the preferred server feature of the NetWare 3.01 client software to attach to a specific server by default.

**NETWARE SERVICES for AVIION SYSTEMS**

## LPI-BASIC for AViiON™ SYSTEMS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>LPI-BASIC was developed by Language Processors, Inc. LPI is a major supplier of languages for today's operating systems including UNIX, MS-DOS, and DG/UX. The version of the product that you have purchased is marketed and supported by Data General Corporation and runs on AViiON under the DG/UX operating system.</p> <p>All features of LPI-BASIC described in the LPI-BASIC Language Reference Manual and the LPI-BASIC User's Guide are included in this version of the compiler.</p>	<p>Product: LPI-BASIC for AViiON™ SYSTEMS</p> <p>Model #: L008A</p> <p>Current Rev. 2.21    SSS Shipped: 07/90</p> <p>Release Notice: 085-600239-00</p>

### DOCUMENTATION

Title	Part Number
LPI-BASIC Language Reference Manual	069-000381-00
LPI-BASIC User's Guide	069-000382-00

**LPI-BASIC for AViiON™ SYSTEMS**

## NETWARE TRANSPORT for AViiON™ SYSTEMS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>NetWare Transport for AViiON Systems is licensed to the AViiON server platform. It includes Novell transport software for DG/UX; NetBois interface libraries for DG/UX; Novell transport software for DOS, Windows/386, and OS/2; Net-Bois interface libraries for DOS, Windows/386, and OS/2.</p> <p>Two model numbers are available for NetWare Transport for AViiON Systems, C021AZS for AViiON 5000/6000 series servers.</p> <p>Additionally, in order to use the file and print services available, you must have software on your workstation to access them. This package contains software to prepare the client workstations to communicate to a NetWare server system.</p>	<p>Product: NETWARE TRANSPORT for AViiON™ SYSTEMS</p> <p>Model #: C021A</p> <p>Current Rev. 1.00      SSS Shipped: 07/06/90</p> <p>Release Notice:      085-001162-00</p>

### DOCUMENTATION

Title	Part Number
NetWare for AViiON Series Systems Concepts	069-000483-00
NetWare for AViiON Series Systems Installation Manual	069-000488-00
NetWare for AViiON Series Systems System Administration	069-000487-00
NetWare for AViiON Series Systems System Messages	069-000485-00
NetWare for AViiON Series Systems User Book	069-000486-00
NetWare for AViiON Series Systems Utilities	069-000484-00
NetWare for AViiON Series Systems Worksheets	069-000510-00
Programming with Transport Interfaces for AViiON Series Systems	069-000482-00

**NETWARE TRANSPORT for AVIIION SYSTEMS**

## ONC/SRPC for AViiON™ SYSTEMS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>ONC/SRPC 4.30 is a port of SunOS version 4.0 ONC/SRPC source code to Data General's AViiON family of computers. ONC/SRPC is an authentication system that greatly improves the security of network environments. The system uses Data Encryption Standard (DES) encryption and public key cryptography to authenticate both users and machines in the network.</p>	<p>Product: ONC/SRPC for AViiON™ SYSTEMS</p> <p>Model #: R010A</p> <p>Current Rev. 4.30                      SSS Shipped: 07/90</p> <p>Previous Rev:                              4.20  Support Effective Until:              01/01/91</p> <p>Release Notice:                            085-600204-01</p>

### DOCUMENTATION

No manuals are shipped with this package. See *Managing NFS and Its Facilities on the DG/UX System* and *Installing and Managing the DG/UX System* for **ONC-NFS** related information.

**ONC/SRPC for AVIIION™ SYSTEMS**



**OPENPC™ for AViiON™ SYSTEMS**

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Data General's OpenPC for AViiON Systems is a software product which provides a virtual PC environment that allows users to run MS-DOS® applications on Data General AViiON computer systems. OpenPC fully emulates an IBM PC/AT® and runs under the X Window System™. OpenPC allows MS-DOS® and UNIX® applications to run simultaneously and cooperatively on the same computer.</p>	<p>Product: OPENPC™ for AViiON™ SYSTEMS</p> <p>Model #: A001A</p> <p>Current Rev. 1.0    SSS Shipped: 07/90</p> <p>Release Notice:        085-600222-00</p>

**DOCUMENTATION**

Title	Part Number
Microsoft MS-DOS Shell Manager User's Guide	069-100316-00
Microsoft MS-DOS User's Reference	069-100315-00
Using OpenPC for AViiON Systems	069-100267-00

**OPENPC™ for AVIION™ SYSTEMS**