

**DG/UX NEWSLETTER**

**UPDATE 4 - 1990**

**092-000665 -01**



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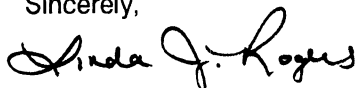
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This newsletter has been designed for you to either replace the pages or insert them behind the appropriate section of your base copy.

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.



**HOT OFF THE PRESS!****MARKETING ANNOUNCEMENTS/PRESS RELEASES****DATA GENERAL INTRODUCES INDUSTRY'S LOWEST-COST RISC SERVER  
AND CONTINUES PRICE/PERFORMANCE LEADERSHIP IN WORKSTATIONS**

WESTBORO, Mass., -- Data General Corporation introduced four new members of its AViiON™ family including the industry's lowest-priced, RISC-based server and best price/performance workstation. The 17-MIPS AV 200 workstation is priced at \$5,950 and, at \$350/MIPS, continues Data General's industry leadership. Also announced is the AV 3200 entry-level server and two new members of the AV 4000 series of mid-range servers or multi-user systems, the AV 4100 and AV 4120.

Priced at \$12,995, the entry-level AV 3200 server is priced below the new SUN Microsystems SPARCserver 1+™ and also offers a distinct price advantage over the IBM POWERserver™ 320. The AV 200 is 40 percent less per MIPS than the Digital Equipment Corporation DecStation™ 2100 at \$596 per MIPS and 25 percent less than IBM's POWERstation™ 320 at \$480 per MIPS. The AV 3200 server is configured with 8 MB of memory, a 332-MB disk, and a 150-MB, quarter-inch-cartridge (QIC) tape drive.

"The Data General AV 3200 and AV 200 have lowered the entry point for RISC-based servers and workstations. VARs, distributors, and end users now have a server and workstation that allow them to take advantage of the price/performance benefits of RISC and the scalability of an architecture that provides complete binary compatibility throughout the product line," said Stephen P. Baxter, vice president, Corporate Marketing.

The new AV 4100 and 4120 systems are faster performing members of the AV 4000 family. The AV 4100 uses the 20-Mhz Motorola 88100 chip performing at 20 Dhrystone MIPS. The AV 4120 uses two 20-Mhz 88100 chips performing at 40 Dhrystone MIPS. The base system includes 8 MB of memory; a 332-MB disk; a 150-MB tape drive; a two-slot, industry-standard, VME chassis; and an integrated ETHERNET controller for low-cost LAN connection.

The AV 3200 and AV 200 are based on the 16-Mhz Motorola 88100 CPU. The systems are ideal for software development, desktop publishing, and commercial applications. The low-deployment costs and scalable architecture make them especially attractive to value-added-resellers and distributors selling into commercial and technical accounts. In addition, the AV 3200 is well suited to act as a low-end timesharing system or as a network server to numerous communication environments.

"With these new products, users have a wide range of choices for application deployment, from low-end, entry-level servers and workstations up to high-performance, dual-processor systems performing at 50 MIPS, without sacrificing software investments, growth, or performance," added Baxter.

The AV 3200 and AV 200 are available with up to 16 MB of memory, and support industry-standard SCSI devices such as 179-MB, 332-MB, or 662-MB, 5 1/4-inch Winchester disks; 150-MB, quarter-inch-cartridge (QIC) tape drive; and integrated ETHERNET connections. The AV 3200 supports up to 18 asynchronous connections. The AV 200 includes two integrated asynchronous point for RISC-based servers and workstations. VARs, distributors, and endbetter viewing area and flicker-free environment for reduced eyestrain compared with smaller, 64-Hz monitors.

A new, 332-MB, 5 1/4-inch half-height Winchester disk, priced at \$14/MB, is Data General's lowest cost-per-megabyte storage system for AViiON systems. The new drive features 332 MB of formatted, error checking/correcting (ECC) protected storage, a 14-millisecond average seek time, and 8.33-millisecond average rotational latency. The 332-MB disk costs \$4,950 and is available 30 days after receipt of order.

The AV 3200 is priced at \$12,995. The AV 4100 is priced at \$21,545 and the AV 4120 is priced at \$34,545. The AV 200 base price is \$5,950. The new members of the AViiON family are available 30 days after receipt of order.

Data General is also offering a special leasing program for the AV 200 and AV 3200 systems. Leases are available in 36, 48, or 60 months. Customers can lease an AV 200 for as little as \$102/per week or the AV 3200 for \$146/per week with no money down. The program expires September 30, 1990.

**HOT OFF THE PRESS!****DATA GENERAL ANNOUNCES AGGRESSIVELY-PRICED 386 AND 286 PCS**

WESTBORO, MA., -- Two new IBM AT-compatible personal computers with low list prices comparable to those of mail-order suppliers, were introduced by Data General Corporation.

The new 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 for a list price of \$4,995, for a configuration that includes 4-MB of memory and a 100-MB hard disk.

The new DASHER/286-12j™ a compact, low-cost IBM AT-compatible using the Intel 80286 12.5-Mhz processor, runs 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 \$2,375.

Data General offers discounts for individual and volume purchases of all Data General personal 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."

The DASHER/386-25k can be configured as a LAN server, as a multi-user UNIX system, or as a high-end 386 workstation in compute-intensive applications such as desktop publishing, CAD, imaging, or database management. The DASHER/286-12j is a low-cost, compact system incorporating functionality and performance to support business applications, including word processing, spreadsheets, business graphics, and database management, in both stand-alone and LAN-based environments.

**DASHER/386-25K**

The DASHER/386-25k 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 in 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.

The DASHER/386-25k will be available in limited quantities in June and comes with Data General's PC "On-site Select" one-year, warranty covering all parts and labor.

**DASHER/286-12J**

The DASHER/286-12j 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 (Lotus-Intel-Microsoft) 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 will be available for immediate delivery in quantity at the end of June and comes with Data General's PC "On-site Select" one-year, warranty covering all parts and labor.

**ADDITIONAL NEW PRODUCTS AND SERVICES**

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

The new model 6628 14-inch color monitor has a .31mm dot-pitch rating and superior clarity. Included with each unit is a compact built-in tilt/swivel stand and a universal convenience power cord. Priced at \$645, the monitor is available for immediate delivery in June.

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 \$1,695 and is also available in June.

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 \$6,995, 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.

**FULL LINE OF INDUSTRY STANDARD PC'S**

Including the new DASHER/386-25k and DASHER/286-12j, Data General now has eight members in its industry-standard personal computer product family. The family spans a range of price and performance capabilities beginning with the DASHER/286-12j up to the top of the line DASHER/386-25 and also includes the WALKABOUT/SX, a high-performance, portable, personal computer based on the Intel 80386sx microprocessor. The entire family will be on display at Data General's booth, #2124, at COMDEX/Spring '90, June 3 - 6 at the Georgia World Congress Center, Atlanta, Georgia.

**HOT OFF THE PRESS!****NEW TERMSERVER CAPABILITIES**

Additional features have been introduced for the TermServer product set, along with a new PC platform for the TermManager software.

TCP/IP protocol support is now provided for TermServer and TermControllers (ITC/128 and LTC/64). Previously, only XNS protocols were supported. Customers can now use TermServers to access multiple hosts (MV/Family, AViiON, and other vendors) by connecting TermServers to a TCP/IP type network.

In addition, MV/Family customers will now have the ability to load TermControllers (ITC/128 and LTC/64) with TCP/IP or XNS software by using MV/Family-based host bootable software. Previously, MV/Family TermControllers could only be booted by a TermManager. MV/Family-based host boot software is particularly significant to the low-end MV/Family base; these customers can now get terminal services by purchasing a \$300 host boot package and a \$300 protocol package for the termserver (in addition to the host controller and actual TermServer).

TermManager is still necessary for a large number of customers due to its services in providing network management reports, as well its ability to boot large populations of TermServers and TermControllers economically and centrally. TermManager performs such services as software configuration management, boot/load, and network management. TermManager is required in networks that utilize TermServers, but can also be used in networks that utilize TermServers with Disk for centralized configuration management and additional network management functions.

The TermManager will now be available on a DASHER/386SX-16 platform.

**NEW ICOBOL/SMART SOFTWARE**

ICOBOL/SMART (ICOBOL/Screen Management At RunTime) is a software tool that easily integrates ICOBOL applications with CEO or CEO Light, and requires no code modifications. When ICOBOL/SMART programs run under CEO or CEO Light, ICOBOL/SMART automatically maintains a CEO-like status line on top of the screen. The status line displays new, urgent and rejected CEO messages as well as the date and time. ICOBOL/SMART also provides access to the CEO interrupt menu. ICOBOL/SMART is an ideal tool for VARs and technical end-users who need to integrate ICOBOL programs with CEO.

**SPECIAL OFFICE/Publisher OFFER**

Take advantage of up to 70% savings on OFFICE/Publisher software, while adding electronic publishing functionality to your CEO system.

OFFICE/Publisher electronic publishing software enables you to produce professional quality documents right at your desk. You can even incorporate graphics and text in the same document or integrate OFFICE/Publisher with DG/LIBRARY for a total publishing solution.

Built around CEO, CEOwrite, and WordPerfect word processing, OFFICE/Publisher provides a cost-effective solution for organizations requiring electronic publishing of text and graphics. It is ideal for proposals, contracts, business reports, forms, newsletters, and user manuals. Since OFFICE/Publisher uses familiar word processing features, there is no need to learn another editing system. Typical users can publish OFFICE/Publisher documents after just a few days of training.

A graphics scanner option provides an easy way to include photos, line art, and graphics from a variety of sources. So you can produce camera-ready documents, with both graphics and text.

A data merge option lets you merge data to create form letters, invoices, purchase orders, or other standard forms.

From now through September 30, 1990, you can take advantage of unbeatable savings on OFFICE/Publisher electronic publishing software and available options. Contact your Data General sales representative or VAR for program details.

**HOT OFF THE PRESS!****FREE DEMO DISKETTES**

If you would like to actually "see" CEO Object Office, Intellibook, or BaseLink (formerly DG/Infact) software on your own PC, ask your sales representative for a copy of special demonstration diskettes of these programs.

CEO Object Office is flexible, easy-to-use software that delivers powerful office automation functionality to your LAN-based PCs. CEO Object Office features a modern icon-driven, windows-based, object-oriented graphical user interface. This consistent interface makes CEO Object Office programs and integrated MS-DOS applications look and behave the same. The demo diskette order number is 005-36536-00.

Intellibook is a LAN-based hypermedia solution that offers an effective way to electronically display and distribute information that is typically found on paper. Using Intellibook, workgroups and individuals can rapidly and cost-effectively access, update, and cross-reference collections of electronically-delivered information including text, graphics, images, and video. It dramatically reduces the delays and costs associated with paper-based methods of information production, revision and distribution. Its demo diskette order number is 005-36537-00.

BaseLink enables PC users on the DG/PC\*1 network to access data on MV/Family servers and convert it to popular PC application formats. For PC users, BaseLink is a decision-support tool that provides easy access to data within the production or distributed data processing environment. For system managers, it offers relief from PC user requests for ad hoc reports, and from information access control concerns. BaseLink demo diskette number is 005-35718-01.

System requirements for running all demo diskettes are: IBM PC, XT (with hard drive), AT, PS/2 (models 50, 60,80) and 100% compatibles; 640 KB RAM; 5-1/4" 1.2 MB disk drive or 3-1/2" 1.44 MB disk drive; EGA or VGA card and monitor.

ECLIPSE and CEO are registered trademarks; DASHER/386/25K, DASHER/286-12J, CEO Object Office, Intellibook, BaseLink, DG/UX and AViiON are trademarks of Data General Corporation.  
MS-DOS is a registered trademark of Microsoft Corporation.  
UNIX is a registered trademark of AT&T.  
IBM is a registered trademark; POWERserver is a trademark of IBM.  
UniVerse is a trademark of V Mark Software, Inc.  
Pick is a registered trademark of Pick Systems, Inc.  
DECStation is a trademark of Digital Equipment Corporation.  
SPARCstation is a trademark of SUN Microsystems.

**HOT OFF THE PRESS!**

## 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	012-003568-01
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

<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

<b>Services</b>	
AViiON Software Services	012-003830-00

<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 available to Data General customers 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.

## SPOTLIGHT ON TRAINING

### Educational Services DG/UX TRAINING SCHEDULE July 1990 - September 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

##### Technical Seminars

July 24	Using Framemaker 1.3	SM460	3
July 30	Troubleshooting XTS & XTS II	SM444	5
Sept 19	X Windows Programming for C Programmers	SM488	3
Sept 24	OSF/Motif Programming for C Programmers	SM588	3

#### ATLANTA TRAINING SCHEDULE

##### Software Courses

Date	Course Title	Course #	Days
July 23	C Programming in a DG Environment	S125	5
July 30	UNIX System Programming	S315	5
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

##### Technical Seminars

July 11	X Windows Programming for C Programmers	SM488	3
July 16	OSF/Motif Programming for C Programmers	SM588	3
August 7	Using Framemaker 1.3	SM460	3
August 21	Connecting Terminals, Modems and PC's	SM191	4

#### CHICAGO TRAINING SCHEDULE

##### Software Courses

Date	Course Title	Course #	Days
July 30	UNIX User	S205	5

##### Technical Seminars

July 24	Connecting Terminals, Modems and PC'S	SM191	4
August 8	AViiON Architecture	SM421	1
August 9	Understanding & Using OSI Model Layers	SM498	1
August 13	Network Interoperability	SM490	4



<b>SPOTLIGHT ON TRAINING</b>
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**WASHINGTON D.C. TRAINING SCHEDULE****Software Courses**

Date	Course Title	Course #	Days
July 9	UNIX User	S205	5
July 16	DG/UX System Administration for AViiON	S288	5
July 23	DG/SQL Utilization & Design	S317	5
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

**Technical Seminars**

July 9	Network Interoperability	SM490	4
July 25	X Windows Programming for C Programmers	SM488	3
July 30	OSF/Motif Programming for C Programmers	SM588	3

**BOSTON TRAINING SCHEDULE****Software Courses**

Date	Course Title	Course #	Days
July 16	Installing & Managing TCP/IP	DC260	5
August 6	UNIX User	S205	5
August 13	DG/UX System Administration for AViiON	S288	5
Sept 17	C Programming in a DG Environment	S125	5
Sept 24	DG/UX System Programming	S315	5

**Hardware Courses**

Sept 17	AViiON Foundations-Operate and Maintain	H615	5
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**Technical Seminars**

July 16	Installing and Managing TCP/IP and NFS	SM405	3
July 30	C + + Programming Workshop	SM133	5
July 31	Using Framemaker 1.3	SM460	3
August 7	TermServer/TermManager Install & Configure	SM417	4
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	Networking Interoperability	SM490	4

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

## SPOTLIGHT ON TRAINING

### What's New in Educational Services

The following Technical Documentation Packages (TDP's) for DG/UX are now available from Educational Services. Included in these documentation packages are manuals that have been grouped together, based upon usage and job function. To order, simply call **1-800-876-3433**.

#### DG/UX TECHNICAL DOCUMENTATION PACKAGES (TDP's)

Order #	TDP Title	Price
TDP0150	DG/UX AViiON: Operating System User	\$ 342.00
TDP0151	DG/UX AViiON: Network Computing User	\$ 212.00
TDP0152	DG/UX AViiON: Client/Server User	\$ 662.00
TDP0153	TCP/IP Documentation Package	\$ 122.00
TDP0154	X WINDOWS Documentation Package	\$ 162.00
TDP0160	OSF/Motif Documentation Package	\$ 158.00
TDP0155	DG/UX AViiON:General User	\$ 311.00
TDP0156	DG/UX for AViiON: Administrator & System Manager	\$ 167.00
TDP0158	DG/UX for AViiON: Programmer's Package	\$ 846.00
TDP0159	DG/UX for AViiON: Network Programmer's Package	\$ 225.00
TDP0157	GREEN HILLS Documentation Package	\$ 81.00
TDP0161	DG/UX for AViiON: Master Library	\$1386.00

### 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 AND CBT'S

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

## **SPOTLIGHT ON TRAINING**

### **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  
Penny Mills  
New York City  
(212)319-4242

Mid Atlantic  
Wendy Moore  
Washington, DC  
(703)827-9666

Southeast/Midwest  
Kim Sarjeant  
Atlanta, GA  
(404)441-2515

Northwest/Southwest  
Nancy Wigmore  
Los Angeles, CA  
(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.

**SPOTLIGHT ON TRAINING**

## DG/UX

### PROGRAMMING NOTES/DOCUMENTATION

#### OS(DG/UX) REV 4.20 [KERNEL]

##### DG/UX TECHNICAL BRIEF ON MULTIPROCESSING

DG/UX Technical Brief number one is available. This issue includes "A Look at Multiprocessor AViiON Systems". This is an excellent paper that covers:

- \* Multiprocessor Myths
- \* Multiprocessor Concepts
- \* Performance Case Studies

#### OS (DG/UX) REV 4.22 [config]

##### Configuration Changes in DG/UX 4.22

In DG/UX Release 4.22, the ordering of devices in the system configuration file is significant. In the past, the order in which devices are configured was chosen by `sysadm newdgux` (more specifically, by `config(1m)`, which `sysadm newdgux` calls.)

For example, a DG/UX Release 4.20 kernel built from a system configuration file which contained `duart()` and `syac()` in either order would associate `/dev/tty00` with the first line on the VAC/16 and `/dev/tty16` with the `duart` serial communication port. In DG/UX Release 4.22, this will be true only if `syac()` precedes `duart()` in the system configuration file.

Similarly, if `duart()` precedes `syac()` then `/dev/tty00` will be associated with the serial communication port and `/dev/tty01` will be associated with the first line on the `syac` controller. Note that `duart()` preceding `syac()` is the default ordering of devices in the DG/UX 4.22 `system.aviion` file. In most cases, this default ordering in DG/UX 4.22 differs from the device order config used in previous releases. That is to say, by following the default ordering of devices in the DG/UX 4.22 system file, devices set up in previous releases may now be out of order in terms of associated ttys.

#### OS (DG/UX) REV 4.30 [swap]

##### Changes in Swap Allocation in DG/UX 4.30

Beginning with DG/UX Release 4.30, user processes are charged for swap (paging) space as they allocate virtual memory (e.g., with `malloc`, `brk`, `sbrk`, or `fork`) rather than when the swap space is actually used. This prevents overcommitment of the available swap space by allowing DG/UX to return an error on a system call that cannot "reserve" the required virtual memory (memory plus swap space). In previous revisions, DG/UX killed processes with an uncatchable SIGBUS when it ran out of paging area. In DG/UX 4.20, processes were not killed at the time they reserved memory, but were killed later when they tried to access it.

As a result of this change in swap allocation, programs which ran successfully under previous DG/UX revisions may now fail attempting to allocate virtual memory. If this occurs,

out of paging area space

diagnostics will appear on the system console. In this event, correct any programs which are known to allocate virtual memory that is never used. Alternatively, allocate more swap space for your system. The default size for swap in DG/UX Release 4.30 is 50,000 blocks on 322Mbyte and larger disks. It will remain 30,000 blocks or 16Mbytes for 179Mbyte disks and diskless workstations.

See the DG/UX 4.30 Release Notice and the "Installing and Managing the DG/UX System" manual for details on increasing the size of swap.

#### OS (DG/UX) REV 4.30 [firmware]

##### SCSI 662Mbyte Firmware Upgrade Required for DG/UX 4.30

To use SCSI 662 Mbyte disks under DG/UX 4.30, revision DG04 firmware is required. Without the firmware upgrade, the system will hang when accessing the disk via `diskman` or upon booting. **DO NOT USE THE 662 MBYTE DISK AS A SYSTEM DISK OR OTHERWISE UNDER DG/UX 4.30 UNTIL THE FIRMWARE IS UPGRADED TO DG04 OR BETTER.** Contact your Data General representative for upgrading your disk's firmware.



**DG/UX****STR ANSWER REPORT**

for International Multi-User DG/UX

AS OF 06-14-90

- 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.

**STR ANSWER REPORT**

for Multi-User DG/UX

AS OF 06-14-90

- STR:NASC000005419  
ORIG-ID: DELTA010 REV: 4.02

**PROBLEM SUMMARY:**

When connected to an Ethernet network with TCP/IP, TCP seems to abort after 7 minutes of no activity.

**ANSWER SUMMARY:**

This problem has been fixed with the enclosed inet.a library module. This module belongs in /usr/src/uts/mv/lb. The kernel will then need to be rebuilt with this module.

- STR:NASC000004946  
ORIG-ID: Q976011 REV: 4.02

**PROBLEM SUMMARY:**

Getting error code 71242, when booting dgux on mv4000, after upgrading microcode to 12.1.

**ANSWER SUMMARY:**

This seems to be a microcode problem. A Hardware Trouble Report (HTR) has been filed against the microcode; you can track it as HTR #ATL-346.

- STR:NASC000003723  
ORIG-ID: Q899273 REV: 4.02

**PROBLEM SUMMARY:**

Processes that are killed do not die but go into a defunct state indefinitely. When this occurs we are not able to log onto the line that was/is running the defunct process.

**ANSWER SUMMARY:**

Upon detailed examination of system dumps submitted with your STR, we have determined that this problem is not being caused by DG/UX but is being caused by your application programs.

- 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.

**DG/UX**

**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.

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**DG/UX C****STR ANSWER REPORT**

for DG/UX U.S. - C Programming Language

AS OF 06-14-90

- STR:NASC000005086  
ORIG-ID: CBIS-0042-1                      REV:     4.01

**PROBLEM SUMMARY:**

When malloc function (non-fast main memory allocator version) has used up all of memory, it crashes program instead of returning a NULL pointer.

**ANSWER SUMMARY:**

The problem you report appears to be due to the fact that you are running with a modified version of libc.a. Since the released version of libc.a fixed your problem, we are closing this STR.

- STR:NASC000001306  
ORIG-ID: UXDDS001                      REV:     4.00

**PROBLEM SUMMARY:**

sprintf() is not declared in stdio.h as stated in the SVID and ANSI X3J11. The routine is declared in dg\_stdio.h, but should be declared in unix\_stdio.h and stdio.h. DG/UX 4.0 complies with SVID & C 4.0 complies in part with ANSI X3J11

**ANSWER SUMMARY:**

A declaration for sprintf() has been added to stdio.h in revision 4.02 of DG/UX C for MV Systems.

**DG/UX C**

**DG/UX FORTRAN 77****STR ANSWER REPORT**

for DG/UX Fortran 77

AS OF 06-14-90

- STR:JAPN000000310  
ORIG-ID: NDG 2167                      REV:    4.00

**PROBLEM SUMMARY:**

Enhancement request for DG/UX F77

**ANSWER SUMMARY:**

The request for enhancement which you submitted has been accepted and will be considered for implementation in a future revision of DG/UX F77.

**DG/UX FORTRAN 77**

## GNU C COMPILER

### STR ANSWER REPORT

for DG/UX GNU C FOR AVIION

AS OF 06-14-90

- STR:WEBO000036194  
ORIG-ID: 66VIE9003HP                      REV: 135.21

**PROBLEM SUMMARY:**  
Internal GCC abort (optimizer).

**ANSWER SUMMARY:**  
The problem you report is fixed in revision 1.36.3 or subsequent revision of GNU C, which will be released with revision 4.30 of DG/UX.

- STR:WEBO000036193  
ORIG-ID: 66VIE9004HP                      REV: 135.21

**PROBLEM SUMMARY:**  
GNU C compiler fatal signal 11 (segmentation violation).

**ANSWER SUMMARY:**  
The problem you report is the result of a faulty strcmp function. This problem will be fixed in revision 1.37.3 or subsequent revision of GNU C, which will be released with revision 4.30 of DG/UX.

- 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:AUSC000005284  
ORIG-ID:    REV: 4.20

**PROBLEM SUMMARY:**  
C PROGRAM DOES NOT COMPILE

**ANSWER SUMMARY:**  
The problem you report is due to the fact that this code is not ansi compliant. Reference the C Language Ansi Standards manual 3.5.7 lines 20-30. Initializers for structures and unions are required to be brace enclosed. The sample materials provided omitted a necessary set of braces.

- 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**

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

for DG/UX NFS FOR AVIION

AS OF 06-14-90

- 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:NASC000005604  
ORIG-ID: Q19637                   REV:     4.20

**PROBLEM SUMMARY:**

We have discovered a problem in the script /usr/sbin/init.d/rc.nfsserv, in that it does not kill all of the necessary processes. The processes dg\_lock\_mgr, rpc.lockd, and rpc.statd remain active when going from run level 3 to 2.

**ANSWER SUMMARY:**

This problem will be fixed in Rev 4.30 of NFS.

- STR:NASC000005025  
ORIG-ID: Q974518                   REV:     4.20

**PROBLEM SUMMARY:**

Rpc.lockd is terminating when using the NFS record(byte) locking facility from within a LPI COBOL program.

**ANSWER SUMMARY:**

This problem will be corrected in Rev 4.30 of NFS.

**ONC/NFS SYSTEM**





## DG TCP/IP (DG/UX)

- STR:NASC000004501  
ORIG-ID: 8221-11290                      REV:     4.20

**PROBLEM SUMMARY:**  
NTS200 termserver hangs during telnet session to AV300 server.

**ANSWER SUMMARY:**  
The problem you reported requires a special modification to the telnetd program in DG/UX 4.20. A special version of the telnet daemon has been provided to you in patch 34.

- STR:NASC000004929  
ORIG-ID: CALTECH-9                      REV:     4.11

**PROBLEM SUMMARY:**  
Data format inconsistencies. Usually, route daemons and such will take partial addresses like 192.12.18 (when specifying a net). DG/UX requires 192.12.18.0 with no manual warning.

**ANSWER SUMMARY:**  
Chapter 3 of Setting up and Managing TCP/IP on the DG/UX system shows the reader how to setup routes. We suggest that you use symbolic names when setting up static routes using the route command.

- STR:NASC000004925  
ORIG-ID: CALTECH-5                      REV:     4.11

**PROBLEM SUMMARY:**  
Telnet Error: type 'neg' to the 'telnet >' prompt to observe error.

**ANSWER SUMMARY:**  
The error message will be improved in Rev 4.40 of TCP/IP.

- STR:NASC000004915  
ORIG-ID: CALTECH-2                      REV:     4.11

**PROBLEM SUMMARY:**  
When telnet-ing into a different machine, a ^z typed will not be sent to the foreign machine, but instead to the telnet process. This should not happen.

**ANSWER SUMMARY:**  
To allow the ^z to take effect, add it to the list of terminators in telnet. Or, force the connection to always do remote echo'ing.

- STR:NASC000004315  
ORIG-ID: MIT891222-04                      REV:     4.10

**PROBLEM SUMMARY:**  
Mail can be sent to files, a useful feature. However the mailer is again sensitive to the owner and group of the file, a real nuisance. We have not found any documentation about this feature.

**ANSWER SUMMARY:**  
Additional documentation about group permissions will be in the "Setting Up and Managing TCP/IP" manual for Rev 4.30.

- STR:NASC000004162  
ORIG-ID: MIT-04                              REV:     4.10

**PROBLEM SUMMARY:**  
Last name in rcp command is limited to names such as aaa.bbb. Names such as aaa.bbb.ccc do not work.

**ANSWER SUMMARY:**  
This will be fixed in Rev 4.30 of TCP/IP.

- STR:JAPN000000250  
ORIG-ID: NDG 2104                              REV:     4.10

**PROBLEM SUMMARY:**  
When using telnet from AOS/VS to DG/UX 4.10 on AViiON, the connection hangs after getting a 'line to long' error from vi(1) under DG/UX.

**ANSWER SUMMARY:**  
We are unable to reproduce this problem against a Rev 4.20 DG/UX machine with the materials provided. If you continue to have this problem, please submit a new STR with the required materials including operating system and TCP/IP revision numbers of the local and remote hosts.

## DG/UX X WINDOWS

### STR ANSWER REPORT

for DG/UX X WINDOWS FOR AVIIION

AS OF 06-14-90

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| <ul style="list-style-type: none"> <li>● STR:UKSC000040180<br/>ORIG-ID: XPOLLYGONFILL      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>X function XPolygonFill() does not always stay within the bounds of the polygon being filled.</p> <p>ANSWER SUMMARY:<br/>The problem you reported is fixed in the forthcoming release of DG/UX X Windows for AViiON Systems, revision 4.30.</p> | <ul style="list-style-type: none"> <li>● STR:JAPN000000395<br/>ORIG-ID: NDG 2253      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>Copying image data is slow.</p> <p>ANSWER SUMMARY:<br/>Your request to improve the performance of X Windows will be considered in a future revision of DG/UX X Windows for AViiON.</p> |
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| <ul style="list-style-type: none"> <li>● STR:UKSC000039033<br/>ORIG-ID: NUMERICAL WRA      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>Under X 11.3, lines drawn with coordinates greater than approximately 4200 are subject to numerical wrap round, if the code is executed on an AV300C.</p> <p>ANSWER SUMMARY:<br/>The problem you reported has been fixed in the forthcoming release of DG/UX X Windows for AViiON, revision 4.30.</p> | <ul style="list-style-type: none"> <li>● STR:JAPN000000369<br/>ORIG-ID: NDG 2225      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>The position of a rectangular cursor is not derived from the same origin as the HOT POINT associated with it.</p> <p>ANSWER SUMMARY:<br/>This problem has been resolved in the forthcoming release of DG/UX X Windows for AViiON Systems, DG/UX revision 4.30.</p> |
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| <ul style="list-style-type: none"> <li>● STR:UKSC000034759<br/>ORIG-ID: CAPBUTT      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>The CapButt line characteristic does not work with a line of width 1.</p> <p>ANSWER SUMMARY:<br/>The problem you reported exists in the X11R3 Xserver distributed by MIT. It is not possible for Data General to fix this problem in the X11R3 Xserver. We will evaluate fixing the X11R4 Xserver to allow Cap-Butt with a line of width 1 in a future revision of DG/UX X Windows for AViiON.</p> | <ul style="list-style-type: none"> <li>● STR:JAPN000000348<br/>ORIG-ID: NDG 2205      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>The confliction occurs on X windows Kana Lock LED handling with AV300 Japanese keyboard.</p> <p>ANSWER SUMMARY:<br/>The likelihood of this problem occurring has been reduced in the keyboard driver software that will be available with DG/UX revision 4.40.</p> |
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| <ul style="list-style-type: none"> <li>● STR:NASC000005478<br/>ORIG-ID: 63579      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>X server under some circumstances when the a plane mask is set nothing is drawn. XCopy Area does not respect the plane mask.</p> <p>ANSWER SUMMARY:<br/>The problems you reported have been fixed in the forthcoming release of DG/UX X Windows for AViiON Systems, revision 4.30.</p> | <ul style="list-style-type: none"> <li>● STR:FRA 000000525<br/>ORIG-ID: FRANCOIS RICH      REV:      4.20</li> </ul> <p>PROBLEM SUMMARY:<br/>Processus which are not killed while outgoing from X-WINDOWS and which are consuming CPU time.</p> <p>ANSWER SUMMARY:<br/>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.</p> |
|---|---|
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**DG/UX X WINDOWS**

- 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.

- 
- STR:AUSC000005297  
ORIG-ID:                           REV:    4.20

**PROBLEM SUMMARY:**

X SERVER CRASHED CAUSING A CORE DUMP

**ANSWER SUMMARY:**

This problem was caused by a lack of memory resources. The problem can be resolved by the addition of more physical memory or a larger swap file to the system.

- 
- STR:JAPN000000286  
ORIG-ID: NDG 2144               REV:    4.11

**PROBLEM SUMMARY:**

Hitting the Caps Lock key while moving the pointer between windows will sometimes cause the Caps Lock LED to be set incorrectly.

**ANSWER SUMMARY:**

DG/UX revision 4.40 will have an enhanced keyboard driver that will reduce the possibility of this problem happening.

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**GREEN HILLS FORTRAN-88000®**

**STR ANSWER REPORT**

for GREEN HILLS FORTRAN 77 FOR  
AVIION UNIX  
AS OF 06-14-90

● STR:HOLL000000261  
ORIG-ID: REV: 184.90

**PROBLEM SUMMARY:**  
At "list-directed read" the exponent "D.." is incor-  
rectly handled. e.g. 0.1 D-01 will be converted to 0.1  
D00

**ANSWER SUMMARY:**  
Fixed in revision 1.8.5 of Green Hills FORTRAN 77.

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

**PROBLEM SUMMARY:**  
The GreenHills F77 compile switch -i causes incor-  
rect 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:NASC000005603  
ORIG-ID: Q18863 REV: 1.84

**PROBLEM SUMMARY:**  
RFE: Request that Greenhills Fortran 77 add the  
functionality to create a  
list file at compile time so that any errors recieved  
can be easily  
traced to a specific line item in the list file.

**ANSWER SUMMARY:**  
This request will be considered for a future revision  
of Green Hills Software.

● STR:JAPN000000390  
ORIG-ID: NDG 2248 REV: 1.84

**PROBLEM SUMMARY:**  
Data max limit on write

**ANSWER SUMMARY:**  
See the Green Hills F77 Release Notice (ghf77\_rn),  
section 4, item 3: "The previous limit of 32K bytes per  
Fortran I/O statement is increased to 2 MB." This limit  
cannot be increased. As a workaround break the field  
to be written up into smaller units that are less than or  
equal to 2 MB in length.

● STR:JAPN000000389  
ORIG-ID: NDG 2247 REV: 1.84

**PROBLEM SUMMARY:**  
no-double-memory-rets switch support to ghf77

**ANSWER SUMMARY:**  
This feature causes many problems in Gnu C and  
is being deleted from the next revision. Due to perfor-  
mance and other issues, this feature will not be imple-  
mented in Green Hills F77.

● STR:JAPN000000388  
ORIG-ID: NDG 2246 REV: 1.84

**PROBLEM SUMMARY:**  
Please add 3F fortran library of 4.3BSD to GHF77

**ANSWER SUMMARY:**  
The BSD F77 library has many differences from  
GreenHills F77 both in VMS and in F77 mode which  
conflict in many ways with the current product. There  
are no plans to support the entire BSD library,  
however we have and will continue to entertain re-  
quests for specific features on a case by case basis.

● STR:JAPN000000387  
ORIG-ID: NDG 2245 REV: 1.84

**PROBLEM SUMMARY:**  
Please support -t option on ghf77(1) command

**ANSWER SUMMARY:**  
This feature is supported in the current revision of  
GH F77, 1.8.4.9. There is an undocumented compiler  
switch of the form -W#, -sw, where # is c for the com-  
piler, a for the assembler or l for the linker, and -sw is  
the switch you wish to pass. So, to pass a -t to ld, you  
would compile your program with a switch of -Wl,-t.  
This will be documented in revision 1.8.5 of GH F77.



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

for Multi-extensible Debugger for Aviion  
Sys

AS OF 06-14-90

- 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**

**STR ANSWER REPORT**

**for SDLC FOR AViiON SYSTEMS**

**AS OF 06-14-90**

- STR:NASC000005565  
ORIG-ID: HAD-SNA                      REV:    2.00

**PROBLEM SUMMARY:**

When activating an SNA communications line on the AV5100 connected to a multidrop configuration, the next drop on the line can no longer communicate with the IBM host.

**ANSWER SUMMARY:**

This problem will be resolved in revision 3.00 of SDLC for AViiON Systems.

**SDLC for AVIIION™ SYSTEMS**

**386/ix BASE RUNTIME MULTI USER**

**STR ANSWER REPORT**

for 386/IX 'MULTI-USER'

AS OF 06-14-90

- STR:AUSC000005362

ORIG-ID:

REV: 2.01

**PROBLEM SUMMARY:**

CHANGING THE ULIMIT PARAMETER IN 386/IX  
CAUSES SYSADM RESTORE OPTION TO FAIL

**ANSWER SUMMARY:**

This problem will be fixed in revision 2.2.0 of 386/ix.

**386/ix BASE RUNTIME MULTI USER**

## BUSINESS BASIC for AViiON SYSTEMS

### STR ANSWER REPORT

for BUSINESS BASIC FOR AViiON SYSTEMS

AS OF 06-14-90

- STR:WEBO000036253  
ORIG-ID: BEL90031

REV: 1.01

#### PROBLEM SUMMARY:

When doing a printf 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:UKSC000039475  
ORIG-ID: TRACE BUFFERI

REV: 1.01

#### PROBLEM SUMMARY:

UX/BBASIC 1.01, The output from the TRACE command is buffered so that if the process hangs, user doesn't get a true idea of the problem line. RFE to add

a switch to BBASIC to allow all TRACE output to be written to a file.

#### ANSWER SUMMARY:

Your suggestion for the TRACE command will be considered for a future revision of Business BASIC for AViiON Systems.

- STR:UKSC000039471  
ORIG-ID: ERROR MESSAGE

REV: 1.01

#### PROBLEM SUMMARY:

UX/BBASIC 1.01, Following incorrect command gives a different error message in UX/BBASIC: 20 IF X\$[1,2] = "AA THEN END gives error 2 - Syntax - Expecting: NUMERIC\_VARIABLE, under VS/BBASIC gives statement or command syntax is invalid.

#### ANSWER SUMMARY:

Diagnostic error messages were introduced in revision 1.00; however, they may be suppressed by use of the -W switch when bringing up Business BASIC. When you use the -W switch, this type of syntax will return the same error as it did in AOS/VS Business BASIC. Documentation for the -W switch is in the USING BUSINESS BASIC ON DG/UX AND 386/IX 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

**BUSINESS BASIC for AViiON SYSTEMS**

1.01. A replacement library, stma.a, is available to correct this problem in revision 1.01.

- 
- STR:UKSC000038392  
ORIG-ID: UX/BB CURSOR           REV:    1.00

**PROBLEM SUMMARY:**

DGUX BBASIC rev 1.00, When doing a screen PRINT @(24,1),"< 11 >" the result is an 'up-arrow K' on the same print line, that is, not on line 24. This occurs in both interactive mode and in a program.

**ANSWER SUMMARY:**

This problem with the PRINT "< 11 >" statement is corrected in the next revision or update after revision 1.01 of Business BASIC for AViiON systems.

- 
- STR:UKSC000037818  
ORIG-ID: UX/BB SCREEN           REV:    1.00

**PROBLEM SUMMARY:**

DGUX/BBASIC rev 1.00, when doing a PRINT "< 138 >" the screen appears to hang and then prints out the whole of the BBASIC interpreter. This occurs with and without BBASIC being started with the -C switch.

**ANSWER SUMMARY:**

This problem with the PRINT "< 138 >" statement is corrected in the next revision or update after revision 1.01 of Business BASIC for AViiON systems.

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## ICOBOL for AVIION (Unlimited Users)

### PROGRAMMING NOTES/DOCUMENTATION

#### ICOBOL (AX,IX) REV 1.51

Warning Concerning the Opening of Files with ICOBOL 1.51 on DG/UX and 386/ix

A problem has been discovered where the number of UNIQUE MINISAM files that are opened on a system is incorrectly being maintained. This can cause the value of MGS\_NUMFDS to incorrectly be exceeded as a result of the count for system unique opens being wrongly incremented for non-unique opens. This most commonly occurs when there are many opens of a file that have already been opened by another process. The problem should only exist in a multi-user environment.

The most common result of this problem is that a file status code of 97 may incorrectly be returned indicating that the the number of unique files opened exceeds the value of MGS\_NUMFDS. Also subsequent returns of file status code 91 may occur on file creation. Less frequently, a runtime system panic or mgs corruption can occur. This should only happen when the internal incorrect unique open count exceeds MGS\_NUMFDS AND another process truly performs a unique file open.

The following workarounds are suggested:

- Set the value of MGS\_NUMFDS as high as possible. (Note that this value will affect the size of the shared memory segment that mgs creates and the runtime system uses. Check that the 386/ix kernel parameter NFILE or the DG/UX kernel parameter SDESLIM values are large enough to support the increased MGS\_NUMFDS value.)
- Try to regularly restart mgs with the scripts ic\_down and ic\_up. When mgs is restarted, the internal unique file open count is reset to 0.

This problem will be corrected in the next revision of Interactive COBOL on DG/UX and 386/ix systems.

#### ICOBOL (AX) REV 1.51

AX-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 DG/UX. This runtime system contains these new fixes as well as the fixes contained in a previous released replacement module. This new

module will fix four 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 or improper retrieval of records will no longer occur.

**ICOBOL for AViON (Unlimited Users)**





**ICOBOL for AViON (Unlimited Users)**

module. ICX connections aborting is no longer being experienced.

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● STR:UKSC000038036

ORIG-ID:

REV: 1.50

**PROBLEM SUMMARY:**

Customer would like a patch for Unix Icobol, giving similar functionality to patch AV-IC-151-OPT.03 for the escape key.

**ANSWER SUMMARY:**

This is fixed in revision 1.60 of ICOBOL on DG/UX and 386/ix. The runtime will now support optional behavior.

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## LPI COBOL-85 for AViiON

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>LPI-Cobol was developed by Language Processors, Inc. PLI 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>LPI-Cobol is a true compiler that fully implements the American National Standards Institute (ANSI) Cobol x3.23-1985 and Cobol x3.23.-1974 programming languages at the high level. LPI Cobol features:</p> <ul style="list-style-type: none"> <li>● Conversion extensions that expedite the porting of applications develope in other important Cobol implementations.</li> <li>● Compliance with the X/OPEN Portability Guide, assuring a standardized product.</li> </ul>	<p>Product: LPI COBOL-85 for AViiON</p> <p>Model #: L009A</p> <p>Current Rev. 06.00.01 SSS Shipped: 02/90</p> <p>Release Notice: 085-600100-00</p>

### DOCUMENTATION

Title	Part Number
LPI-Cobol Language Reference Manual	069-000375-00
LPI-Cobol User's Guid	069-000376-00

**LPI COBOL-85 for AViiON**

## LPI CODEWATCH for AViiON

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Codewatch was developed by Language Processors, Inc. PLI 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>Product: LPI CODEWATCH for AViiON</p> <p>Model #: L016A</p> <p>Current Rev. 04.12.00      SSS Shipped: 02/90</p> <p>Release Notice:      085-600104-00</p>

### DOCUMENTATION

Title	Part Number
CodeWatch Reference Manual	069-000437-00

**LPI CODEWATCH for AVION**

## LPI FORTRAN for AViON

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>LPI-FORTRAN 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 AViON under the DG/UX operating system.</p>	<p>Product: LPI FORTRAN for AViON System</p> <p>Model #: L010A</p> <p>Current Rev. 03.10.02 SSS Shipped: 02/90</p> <p>Release Notice: 085-600101-00</p>

### DOCUMENTATION

Title	Part Number
LPI/FORTRAN Language Reference Manual	069-000377-00
LPI/FORTRAN User's Guide	069-000378-00

**LPI FORTRAN for AViiON**



**LPI PASCAL for AViiON**

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>LPI-PASCAL 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>Product: LPI PASCAL for AViiON System Model #: L011A Current Rev. 02.20.00 SSS Shipped: 02/90 Release Notice: 085-600102-00</p>

**DOCUMENTATION**

Title	Part Number
LPI/PASCAL Language Reference Manual	069-000383-00
LPI/PASCAL User's Guide	069-000384-00

**LPI PASCAL for AVIION**

**LPI PL/1 for AViiON**

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>LPI-PL/1 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>Product: LPI PL/1 for AViiON</p> <p>Model #: L012A</p> <p>Current Rev. 4.01.01 SSS Shipped: 02/90</p> <p>Release Notice: 085-600103-00</p>

**DOCUMENTATION**

Title	Part Number
LPI/PL1 Language Reference Manual	069-000379-00
LPI/PL1 User's Guide	069-000380-00

**LPI PL/1 for AVIION**

<b>NETWARE SERVICES for AViiON SYSTEMS</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Netware for AViiON systems is Novell's Portable Netware Product ported to DG/UX-based AViiON Servers. Netware for AViiON systems lets AViiON systems act as a file and print server, UNIX application server, and/or multifunction communication/database server for PC-Client workstations. With Netware, AViiON servers can interoperate with installed Novell systems, the largest installed base of PC Lan Servers in the world. In addition Netware allows AViiON servers to grant transparent resource access to Netware-supported PC Clients, to integrate with native Netware servers, and to provide connectivity and an application program interface to support generalized client-server applications.</p> <p>Netware services for AViiON systems is licensed by user count and has as its prerequisite and AViiON server with the Netware Transport license. It includes file sharing and print sharing services.</p>	<p>Product: NETWARE SERVICES for AViiON System</p> <p>Model #: C020A</p> <p>Current Rev. 1.00    SSS Shipped: 06/90</p> <p>Release Notice:            085-001155-00</p>

**NETWARE SERVICES for AVIION SYSTEMS**