DG/UX   NEWSLETTER

UPDATE 3 - 1990

092-000664 -01

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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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

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

NEW ECLIPSE MV/FAMILY SYSTEMS WITH CPU ON A SINGLE CHIP

The ECLIPSE MV/5500 DC and the ECLIPSE MV/9500 -- the first two members of a completely new generation of MV/Family systems -- represent the first time the ECLIPSE MV/Family CPU architecture has been implemented on a single, integrated circuit. This reduces chip count and allows more space on the system board for memory, I/O, and other features to enhance reliability and overall system performance.

The low-end ECLIPSE MV/5500 DC and the mid-range ECLIPSE MV/9500 deliver processing performance of 5.0 MIPS, making them the most powerful MV/Family processors ever at their price points. They surpass the price/performance of previous systems by 200 percent or more.

The ECLIPSE MV/5500 DC extends the performance of the family's low-end systems from 1.7 MIPS for the MV/2500 DC to the 5-MIPS level. The ECLIPSE MV/9500 represents the center of the mid-range line, more than doubling the price/performance of the MV/15000 Model 8.

The systems feature new gray cabinetry that offers more usable space, increased power and thermal capabilities, and lower maintenance.

"These new MV/Family systems are derived from advances in VLSI CMOS chip technology that not only boost performance at lower price points, but that allow us to update MV/Family processor technology much more quickly than in the past," said David Ellenberger, director of ECLIPSE systems marketing.

ECLIPSE MV/5500 DC

Ideal for office and workgroup environments, the MV/5500 DC is packaged as a convenient, quiet, under-the-desk system that can be installed and upgraded by the customer. The new system complements Data General's Distributed Applications Architecture (DAA) strategy by functioning as a cost-effective applications or database server in client/server PC LAN environments or as a powerful, stand-alone compute engine.

The MV/5500 DC features from 16 to 32 MB of main memory, compared with a maximum of 24 MB on the MV/2500 DC. Memory is expandable in 8-MB increments. The system supports up to 144 asynchronous ports compared to the MV/2500's 64 ports, and it also supports multi-channel and multi-protocol communications and up to seven mass storage peripherals. In addition, the MV/5500 DC runs AOS/VS, AOS/VS II, and DG/RDOS operating systems, continuing the tradition of complete compatibility across the ECLIPSE MV/Family and ensuring a cost-effective upgrade path.

"With integrated functionality and more performance per dollar, the ECLIPSE MV/5500 DC represents a very attractive system for both resellers and end users, and it demonstrates Data General's commitment to continually expand and improve our ECLIPSE MV/Family product line," added Ellenberger.

HOT OFF THE PRESS!

ECLIPSE MV/9500

In contrast to the under-the-desk MV/5500 DC, the MV/9500 is packaged in a 10.5-inch-high, NEMA-standard rackmount chassis and supports the full range of ECLIPSE Burst Multiplexor Channel (BMC) and Data Channel (DCH) peripherals and controllers, which expands customers' configuration and high-availability options considerably.

The MV/9500 features up to 128 MB of main memory, expandable in 8-MB or 32-MB increments. In addition, the new system supports up to 624 direct-connect asynchronous ports for terminals and printers and up to 76.8 GB of Winchester disk storage on the BMC.

The MV/9500 supports the Message-based Reliable Channel (MRC) subsystem. The MRC provides a highly reliable I/O channel for database and peripheral sharing rom multiple ECLIPSE MV/Family systems, and high-availability functions such as on-line diagnostics, repair under power, and complete hardware redundancy.

The ECLIPSE MV/9500 also provides an economical, board-level upgrade path from older Data General systems. System-board upgrades are available for a range of 16-bit systems such as the NOVA 4, and 32-bit systems like the MV/7800 Series and MV/4000. Customers can preserve their investments in packaging, current peripherals, and software while attaining significant performance increases. Operating systems supported on the MV/9500 include AOS/VS, AOS/VS II, DG/RDOS, and AOS/RT32.

The base price of an ECLIPSE MV/5500 DC, with 16 MB of memory, a 320-MB disk, and operating system right-to-use (RTU) license is $US 53,100. The base price of an ECLIPSE MV/9500, with 8 MB of memory, a NEMA-standard chassis, and operating system RTU is $US 62,000. Both systems are available 60 days after receipt of order.

NEW 20-SLOT AViiON SYSTEMS

Now you can have all the advantages of the AViiON AV 6200 rackmount systems plus a 20-slot VME chassis. These new systems are ideal for end-users, VARs, and system integrators having I/O-intensive configurations. The 20-slot systems are packaged in a NEMA-standard 19-inch wide by 22.75-inch high chassis.

A full 15 slots are dedicated to I/O option boards, with another four used for either I/O or memory. This impressive capability is ideal for applications such as process control, instrumentation, data acquisition and military-standard systems, where interfacing to a variety of special-purpose equipment is required. All slots permit the use of 9U or 6U option boards.

In addition to standard option boards available for AV 6200 systems, a wide selection of special-purpose interface and communication boards are offered. These include IEEE-488, DR11W, and general-purpose interfaces, as well as an array (vector) processor.

If your AViiON application requires special-purpose hardware, including third-party hardware and completely new designs, Data General Special Systems design and integration personnel can work with you to meet your special needs.

HOT OFF THE PRESS!

NEW DASHER/386SX-16

New to the PC product lineup this month is the DASHER/386SX-16, a low-cost, high-performance, PC-AT compatible workstation suitable for a variety ofcomputing needs. Users can access the powerful 32-bit software developed for the 80386 while using less-expensive, 16-bit peripherals, since the system's I/O device data path is compatible with existing 16-bit hardware.

The new PC supports the MS-DOS (Rev. 3.3 or 4.01) and 386/ix operatingsystems, and a LIM 4.0 expanded memory manager. The system features singlein-line memory modules, with two MB of SIMM memory standard. In addition, 1-MB add-in modules can be installed in 2-MB increments for a total of 8 MB. Video options include VGA color and monochrome monitors with up to 640 x 480 resolution.

The DASHER/386SX-16 offers greater flexibility in storage devices options than the original DASHER/386SX, and is designed with a new cover and front bezel with more visible status lights for disk busy and power-on. All four I/O slots are now 16/8-bit, where previously three were 16/8-bit and one was 8-bit only.

In the new chassis, the standard 3.5-inch diskette drive is now placed in the upper 3.5-inch bay; the lower 3.5-inch bay will normally hold the first hard disk. This leaves two 5.25-inch industry-standard size bays open for a wider variety of storage devices including removable devices such as tape and diskette drives. A second 3.5-inch hard disk could be installed in one of these 5.25-inch bays if desired.

PASSWORD CONTROL SYSTEM ENHANCES SECURITY

The latest revision of Password Control System (PCS) incorporates new enhancements to meet specific federal government standards, incorporating greater functionality and security. PCS provides comprehensive password security, and is a cost-effective solution for government, banking, medical, and other applications that need to complement AOS/VS and AOS/VS II system security. It also offers the option of network distribution of PCS-generated passwords and a logging feature that enables the system manager to generate an audit trail of all transactions.

When passwords are user-defined, the system manager can specify the minimum number of alphabetic, numeric, and non-alphanumeric (punctuation) characters that must be included in a user-entered password. User-defined passwords are not allowed to match the username.

Also, the new parameter "Limit Number of Logons with the Same Password" can require a user to take a new password, based on the number of times the user has logged on since their last password change. This allows the system manager to enforce user password changes, ranging from every 1 to 3000 logons.

The new GET_PROGRAM.PR program, which is executed with a list of usernames, displays each username and initial program executed for each user on logon. This enables the system manager to quickly view the programs in each user profile

DATA GENERAL PORTS AT&T'S LAN MANAGER/X SOFTWARE

Data General Corporation announced that it will port AT&T's LAN Manager/X software to Data General AViiON™ RISC-based server platforms. The AT&T licensing agreement enables Data General to offer LAN Manager/X customers an industry-standard software development platform and a range of client-server applications built on Data General's multifunctional servers.

"AT&T's expertise -- demonstrated in their adaptation of LAN Manager technology to UNIX® -- adds tremendous value to Data General's strategy to

HOT OFF THE PRESS!

penetrate the fast growing commercial UNIX server market," says Stephen Paul Baxter, vice president of corporate marketing. "AT&T's PC LAN technology is a key component of Data General's Distributed Applications Architecture (DAA) and our OPEN LAN product set, designed to give PC LAN users maximum freedom to choose network architectures based upon individual computing needs."

Added Bill O'Shea, AT&T Computer Systems vice president of product management and development: "Data General's addition of the AT&T LAN Manager/X Server to its DAA and OPEN LAN product set signifies the company's commitment to offer the best open network operating system to Data General customers. The AT&T LAN Manager/X Server combines the benefits of the LAN Manager industry standards with the power and flexibility of the UNIX system."

At the end of calendar year 1990, Data General will introduce a version of LAN Manager/X that supports AViiON systems. The company will also introduce LAN Manager/X additions to its Software Developers' Kit (SDK) for AViiON PC LANs.

Announced last February to support Novell NetWare®, the SDK lets VARs, system integrators and third-party developers easily develop client-server applications, and deliver these applications to multi-vendor environments. The SDK, incorporating the Netwise® RPC TOOL™ (remote procedure calls), enables developers to write one application for multiple PC LAN types, significantly reducing development costs.

Data General also introduced last February, the industry's first RISC-based products to support Novell's Portable NetWare called NetWare for AViiON Systems. Data General additionally announced NetWare for ECLIPSE® MV/Family Systems, Native NetWare on Data General DASHER 386™ workstations, and the company's intention to support OS/2™ LAN Manager and LAN Manager/X.

Initially introduced in February, 1989, Data General's OPEN LAN product set embraces a wide range of PC LAN choices. In addition to offering Novell NetWare and LAN Manager/X products this year, Data General customers have access to a variety of networking standards including Ethernet and 802.5 Token Ring. Customers also have access to a range of transport protocols including Open Systems Interconnect(OSI), Transmission Control Protocol/Internet Protocol (TCP/IP) and most recently the Novell IPX/SPX-based transports.

NEW PRODUCTS - IN BRIEF

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

Description	Part Number
Applications Software	
DG/AROSE FOR INFOCAD	012-003567-00
INTELLIBOOK	012-003425-00

BASELINK012-003410-02

AViiON Systems	
API LU 6.2	012-003766-00
API LUO 123	012-003765-00
AVX-30 X-Window	012-003579-00
AV 300 Workstation	012-003496-02
AV 400 Workstation	012-003622-01
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
SOFTWARE DEVELOPER'S TOOLKIT	
for AViiON	012-003722-00
X.25 FOR AViiON	012-003744-00
FRAME MAKER	012-003769-00

Business Automation	
CEO OBJECT OFFICE	012-003533-00
CEO OPTICAL ARCHIVER	012-003617-00
CEO SCANREADER	012-003537-00

Communications Software	
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
600MB R.A.M.S.	012-003347-02
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

Communications Hardware	
TermServer	012-003278-02

Languages	
AOS/VS II	012-003382-01
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

Operating Systems	
386/ix	012-003352-02

PC/Workstations	
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

Peripherals	
6594 DOT MATRIX	012-003491-00
D 212 TERMINAL	012-003383-01
D412 TERMINAL	012-003384-01
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
MOD 6588 TAPE	012-003594-00
WALKABOUT TERMINAL	012-003514-01

Processors	
ECLIPSE MV/FAMILY CHART	012-003465-02
ECLIPSE MV/5500DC	012-003745-00
ECLIPSE MV/9500	012-003733-00
MV/18000	012-003686-00
MV/7800 XP	012-003236-03

Services	
VSPAC/ONE	012-003782-00
AViiON SOFTWARE SERVICES	012-003830-00

Systems Software	
MXDB	012-003650-00
OpenPC	012-003632-00

NEW PRODUCTS - IN BRIEF

SPOTLIGHT ON TRAINING

CUSTOMER EDUCATION SCHEDULE

SPOTLIGHT ON TRAINING

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 amd 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 insructors 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 availabe 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, Maintenace Service Guides (MSG's) and Maintenacne 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 documenation 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

SPOTLIGHT ON TRAINING

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

Technical Seminars

July 16	Installing and Managing TCP/IP and NFS	SM405	3
July 30	C + + Programming Workshop	SM133	5
Ju;y 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

   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

Educational Services is pleased to offer the following UNIX CBT training courses

UNIX SYSTEM ADMINISTRATION BASICS
Model Number:

17620	For AOS/VS Systems:	
	Level I	Level II
	$895	$1395

17621	For AViiON:
	$1195

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SPOTLIGHT ON TRAINING
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This computer-based training course is designed to teach the student how to operate and manage the UNIX operating system. The student will learn to use the sysadm menus to effectively:

> Manage user accounts
> Manage terminals
> Manage printers

Audience:
System Administrators responsible for managing and maintaining the UNIX operating system.

Topics:

> Tasks performed by a UNIX system administrator
> Managing user accounts
> Managing terminals
> Managing printers

Using UNIX CBT
Model Number:
17600 Introduction to UNIX -- AOS/VS Media
17602 Introduction to UNIX -- AViiON, DG/UX 4.10

Summary: This timely CBT course teaches you how to perform basic UNIX user functions including how to login and logout, enter commands, manage files, create script files, perform basic file editing, and use selected utilities.

Topics: Introduction to UNIX o Login and Logout o A Basic Session o Management of Files and Directories o Pathnames o Templates o Links o Access Permission o Using UNIX Shell Commands o Pipes o Redirection o Process Management o Bourne Shell o C Shell o UNIX Utilities o Mail o VI Text Editing

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.

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	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.

SPOTLIGHT ON TRAINING

DG/UX

PROGRAMMING NOTES/DOCUMENTATION

OS(DG/UX) REV 4.20 [KERNEL]

DG/UX TECHNICAL BRIEF ON MULTIPROCESS-ING

DG/UX Technical Brief number one is available. This issue will includes "A Look at Multiprocessor AViiON Systems". This is an execellant 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.

DG/UX

DG/UX

STR ANSWER REPORT
for Multi-User DG/UX
AS OF 05-23-90

● 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:NASC000005138
ORIG-ID: UX-SR-2   REV: 4.02

PROBLEM SUMMARY:
If a "C" program returns a -1 from 'main' function, the observed value of $status is 255.

ANSWER SUMMARY:
According to the standard of the Bourne shell, 255 is the correct value to return in this situation (255 is the unsigned version of -1). Therefore, a problem does not occur in the DG/UX 4.02 csh(1) which implements this standard correctly. However, as stated in the text, DG/UX 4.20 csh on AViiON returns -1. This is incorrect behavior and the csh has been corrected in DG/UX 4.30.

● 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.

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 ATL0-290. Please contact your hard- ware support organization for assistance in tracking this HTR to final resolu- tion.

DG/UX

DG/UX C

STR ANSWER REPORT
for DG/UX U.S. - C Programming Language
AS OF 05-23-90

● 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:NASC000004021
  ORIG-ID: Q926284   REV: 4.01

  PROBLEM SUMMARY:
  The predefined macro __FILE__ produces incorrect results when used under Unix C.

  ANSWER SUMMARY:
  The macro __FILE__ under DG/UX C returns the path name of the current file. The notation ./filename indicates the the file is in the current directory with name = filename. The full pathname is given because the source file does not need to be in the current directory.

● STR:JAPN000000252
  ORIG-ID: NDG 2109   REV: 4.01

  PROBLEM SUMMARY:
  DG/UX C Optimizer problem.

  ANSWER SUMMARY:
  We were unable to recreate this problem with the sample program provided. If you find that this is still a problem with the latest release of DG/UX C, please submit another STR with another sample program and we will try again.

● 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 05-23-90

- **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

DG/UX OPERATING SYSTEM

PRODUCT DESCRIPTION

DG/UX 4.20 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.

DG/UX for AViiON systems is an advanced implementation of the UNIX operating system based on AT&T's System V.3 and the Berkeley Software Distribution.

The DG/UX software may be bundled on the same tape with other products. In any case, DG/UX software components consist of:

1. DG/UX Kernel and DG/UX Commands

2. GNU-C compiler.

3. DTK- The Documenters Tool Kit.

4. DG/UX Online Man Pages.

SOFTWARE STATUS REPORT

Product: DG/UX™ System

Model #: P001A

Current Rev. 4.20
Update   02   SSS Shipped: 05/90

Release Notice: 085-600125-01
Update Notice: 078-600031-00

DOCUMENTATION

Title	Part Number
DTK Release Notice	085-600139-01
GNU-C Release Notice	085-600128-01
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
Finding Your Way Around DG/UX Documentation	069-701013-01
Using the DG/UX System	069-701035-01
Using the DG/UX Editors	069-701036-01
Porting Applications to the DG/UX System	069-701059-01
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)	069-100317-00
Installing and Managing the DG/UX System	093-701052-01
Using DG/UX System Programming Tools	093-701048-02

DG/UX OPERATING SYSTEM

Title	Part Number
Writing Device Driver for the DG/UX System	093-701053-02
User's Reference for the DG/UX System	093-701054-00
System Manager's Reference for the DG/UX System	093-701050-00
Programmer's Reference for the DG/UX System (V.1)	093-701055-00
Programmer's Reference for the DG/UX System (V.2)	093-701056-00

GNU C COMPILER

PRODUCT DESCRIPTION

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. However, an option exists that supports strict conformance to the ANSI standard. GNU C adheres to the 88open Object Compatibility Standard [OCS] in terms of assembler code generated, calling sequence, and alignment. Contrary to the OCS, GNU C does not by default put strings into writable memory; however, options exist to support this functionality.

Sources to GNU C for the AViiON are available on the AViiON Contributed Software distribution (Model #R006AZN) from Data General.

SOFTWARE STATUS REPORT

Product: GNU C COMPILER

Model #: P001A

Current Rev. 1.35.12   SSS Shipped: 08/89

Release Notice: 085-600128-01

For documentation information refer to DG/UX ™ SYSTEM Model P001A in Section 3 page 19-1

GNU C COMPILER

GNU C COMPILER

STR ANSWER REPORT
for DG/UX GNU C FOR AVIION
AS OF 05-23-90

● 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:NASC000005222
ORIG-ID: REV: 135.21

PROBLEM SUMMARY:
The sizeof and offsets for structures containing bit-fields differ between gcc -ansi and gcc -traditional and are not bcs/ocs compliant.

ANSWER SUMMARY:
This problem is resolved in revisions 1.36.8 and higher of the compiler. Please upgrade to 1.36.8 when it becomes available.

● STR:UKSC000038332
ORIG-ID: SEGMENTATION   REV: 35.21

PROBLEM SUMMARY:
C program fails with a segmentation fault when executed under DG/UX 4.20.

ANSWER SUMMARY:
The problem you report is occurring due to a programming error. The code supplied has a ti_v entry declared as type short. Declaring this entry as type long corrects the reported problem.

● STR:NASC000004615
ORIG-ID: Q956409   REV: 35.21

PROBLEM SUMMARY:
Error - "Fatal Signal 11 Error" from gnu c program compilied with the -c and -o switches.

ANSWER SUMMARY:
The problem you report is corrected in revision 1.35.22 or a subsequent revision of Gnu C, released in conjunction with DG/UX revision 4.30. Please upgrade to this revision when it becomes available.

● STR:NASC000004531
ORIG-ID: INFOSTAT-0118   REV: 4.20

PROBLEM SUMMARY:
My customer's AViiON 5100 was upgraded from DG/UX 4.10 to 4.20. After the upgrade, all the GNU C programs were recompiled with the optimizer switch. They all recompiled successfully except one.

ANSWER SUMMARY:
The problem you report relating to memcpy and the builtin version of memcpy is fixed in revision 1.36.8 or a subsequent revision of GNU C, which will be released with revision 4.30 of DG/UX. The performance of both functions has been increased. Additionally, both functions provide the forward overlapping copy semantic you suggested.

● 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 Stnadards manual 3.5.7 lines 20-30. Initializers for structures and unions are required to be brace

GNU C COMPILER

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.

● STR:NASC000004702
   ORIG-ID: CS-SYBASE-03   REV: 1.34

PROBLEM SUMMARY:
When the subject program is compiled using the /opt switch the results in the highlighted boolean expression are reversed. This could lead to serious problems.

ANSWER SUMMARY:
As we discussed in our telephone coversation, we require a sample program that demonstrates the error reported in your STR in order to analyze this problem and provide you with a solution. Since you are unable to provide this program at this time we are closing this STR with your understanding. Please feel free to submit another STR on this problem after you have obtained this program.

● STR:NASC000004699
   ORIG-ID: CS-SYBASE-01   REV: 1.34

PROBLEM SUMMARY:
When the subject program is compiled under 4.20 of DGUX a bus error is generated. This did not occur under 4.10 of DGUX.

ANSWER SUMMARY:
As we discussed we are closing this STR at your request since you are unable to provide us with a sample program to produce this error at this time. Please feel free to submit another STR on this problem when you are able to provide us with such a program.

DG/UX DOCUMENTER'S TOOL KIT (DTK)

PRODUCT DESCRIPTION

This release has two components: Documenter's Tool Kit (DTK), and Imagen's UNIX Host Software (HOSTSOFT). Both products are supported by Data General. HOSTSOFT is owned by Imagen Corporation.

DTK 2.10 is a set of text processing tools ported from AT&T Documenter's Workbench[3], 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.

HOSTSOFT 3.00.02 is a set of troff postprocessing tools and several utilities to: maintain printer database and status information, provide queue management, and print ASCII data. There are many different public domain fonts provided as part of HOSTSOFT that support both 240 dpi and 300 dpi Imagen printers. Additional proprietary fonts may be purchased from Imagen. HOSTSOFT licenses, and documentation may also be purchased from Imagen. HOSTSOFT is tailored to the specific configuration of your Imagen printer.

SOFTWARE STATUS REPORT

Product: DG/UX DOCUMENTER'S TOOL KIT (DTK)

Model #: P001A

Current Rev. 2.10   SSS Shipped: 08/89

Release Notice: 085-600139-01

For documentation information refer to DG/UX™ SYSTEM Model P001A in Section 3 page 19-1

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

ONC/NFS SYSTEM

STR ANSWER REPORT
for DG/UX NFS FOR AVIION
AS OF 05-23-90

- 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 ANSWER REPORT
for DG/UX TCP/IP FOR AVIION
AS OF 05-23-90

● STR:NASC000005185
ORIG-ID: 031390-1   REV: 4.20

PROBLEM SUMMARY:
Socket not flushing buffer prior to close.

ANSWER SUMMARY:
The problem you have been experiencing with sockets not flushing buffers prior to close has been fixed with the TCPIP_4.20.01 patch, which you already have. Thank you for reporting the problem.

● STR:NASC000004995
ORIG-ID: MDP-022890   REV: 4.20

PROBLEM SUMMARY:
This is a problem with the Sendmail Utility. When a large amount of mail is being mailed to both the local machine and a remote machine, the remote machine occasionally hangs, and performance is too slow for a benchmark.

ANSWER SUMMARY:
The hang disappeared when /var/mail, /var/spool, /tmp, and /swap were made large enough to handle this benchmark's mail load. Performance increased by customizing the sendmail.cf file, and improving buffering in the sendmail, /bin/mail, and mailx programs. The bug fixes will be available in Rev 4.30 of TCP/IP.

● STR:NASC000004959
ORIG-ID: CALTECH-28   REV: 4.20

PROBLEM SUMMARY:
Telnet error: type 'neg' to the 'telnet >' prompt to observe error. Should give better error message, or a usage summary.

ANSWER SUMMARY:
This problem is the same as that reported in STR NASC-4959. Please follow that one for status. It mentions the problem is against Rev 4.10 and 4.20.

● STR:NASC000004936
ORIG-ID: CALTECH-16   REV: 4.20

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

ANSWER SUMMARY:
This STR is a duplicate of NASC-4929. Please follow it for status of the problem.

● STR:NASC000004935
ORIG-ID: CALTECH-15   REV: 4.20

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

ANSWER SUMMARY:
This problem is the same reported in STR NASC-4915. Please follow it for status. Text in that STR now specifies the problem happens in Rev 4.10 as well as 4.20.

● STR:NASC000004778
ORIG-ID: JPL-01   REV: 4.20

PROBLEM SUMMARY:
Using SENDMAIL and/or MAILX from the Sun workstation (acting as the mail gateway) to the AViiON doesn't work.

ANSWER SUMMARY:
The /etc/sendmail.cf file needs to customized for every unique site. Your sendmail.cf file needed to allow incoming messages addressed to a fully qualified hostname (host.xx.com) rather than a simply qualified one (host). A sendmail.cf file that is easier to read and change will be shipped with Rev 4.30 of TCP/IP.

● STR:NASC000004770
ORIG-ID: SDD-FTD-1   REV: 4.20

PROBLEM SUMMARY:
Receiving an error while running a benchmark test that exercises file transfers via FTP. Receive error: 425 Can't create data socket (128.220.1.7,20): Error 140: Unknown error code

ANSWER SUMMARY:
This problem is fixed in DG/UX TCP/IP 4.30.

● STR:NASC000004669
ORIG-ID: SD001   REV: 4.20

PROBLEM SUMMARY:
Using a program that directly interfaces to the TCP/IP transport service, the service will become unusable after a lot of connections are set up.

DG TCP/IP (DG/UX)

ANSWER SUMMARY:
Multiple TCP connections made to localhost causes memory to leak. 88 bytes of STREAMS memory is lost per connection. This will be fixed in Rev 4.30 of TCP/IP.

● **STR:JAPN000000382**
ORIG-ID: NDG 2239   REV: 4.20

PROBLEM SUMMARY:
PANIC 2 or 1000024

ANSWER SUMMARY:
The problem you reported was not a problem with DG/UX TCP/IP, but in one of your own modules.

● **STR:NASC000004934**
ORIG-ID: CALTECH-14   REV: 4.11

PROBLEM SUMMARY:
When ftp'ing a file from a Silicon Graphics Iris (that was on the same net,this was WHEN TCP/IP was set up) ftping a file that is between 4096 and 8191 bytes long (say 4096), the last bytes of the file are dropped.

ANSWER SUMMARY:
The problem has been corrected in revision 4.20 of DG/UX. If you experience the problem after installing revision 4.20 of DG/UX, please submit a new STR.

● **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:NASC000004916**
ORIG-ID: CALTECH-3   REV: 4.11

PROBLEM SUMMARY:
Whether machine is set up for tcp/ip or not, "ppokey inetd[306]: chargen/tcp unknown service" keeps showing up during system boot (the 306 part changes -- probably the pid).

ANSWER SUMMARY:
We are unable to reproduce the problem you are experiencing with the information you have provided. Please provide specific details of what is occuring, including the server involved. The script file involved would be helpful.

● **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:NASC000004914**
ORIG-ID: CALTECH-1   REV: 4.11

PROBLEM SUMMARY:
When 'ftp'ing a file from a Silicon Graphics Iris (that was on the same net-- this was WHEN tcp/ip was set up) ftping a file that is between 4096 and 8191 bytes long (say: 4096), the last bytes of the files are dropped.

ANSWER SUMMARY:
The problem has been corrected in revision 4.20 of DG/UX. If you experience the problem after installing revision 4.20 of DG/UX, please submit a new STR.

● **STR:NASC000004398**
ORIG-ID: MIT-900104-02   REV: 4.10

PROBLEM SUMMARY:
The documentation of the socket options could be improved.

ANSWER SUMMARY:
We agree that the socket option portion of our Programmer's manual can be improved and we plan to start improving it in the next revision of the manual.

● **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.

DG TCP/IP (DG/UX)

● 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:JAPN000000336
  ORIG-ID: NDG 2193   REV: 4.10

PROBLEM SUMMARY:
At "sysadm setuppackage" of TCP/IP,"_" is not allowed as a hostname character.

ANSWER SUMMARY:
The "_" character is not a valid hostname character according to the RFCs. Our hosts and hostname man pages will be changed to reflect this in Rev 4.30.

● 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 TCP/IP (DG/UX)

DG/UX X WINDOWS

STR ANSWER REPORT
for DG/UX X WINDOWS FOR AVIION
AS OF 05-23-90

● STR:UKSC000039033
ORIG-ID: NUMERICAL WRA   REV: 4.20

PROBLEM SUMMARY:
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.

ANSWER SUMMARY:
The problem you reported has been fixed in the forthcoming release of DG/UX X Windows for AViiON, revision 4.30.

● STR:UKSC000034759
ORIG-ID: CAPBUTT   REV: 4.20

PROBLEM SUMMARY:
The CapButt line characteristic does not work with a line of width 1.

ANSWER SUMMARY:
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.

● STR:SWE 000000244
ORIG-ID: HAAL IN ONE   REV: 4.20

PROBLEM SUMMARY:
The xclient program that is on tape (bug.c) will work on a color machine but not on a mono. It seems to be the X-server that fails.

ANSWER SUMMARY:
The problem you reported has been fixed in the X-Server that will ship with DG/UX revision 4.30.

● STR:NASC000005478
ORIG-ID: 63579   REV: 4.20

PROBLEM SUMMARY:
X server under some circumstances when the a plane mask is set nothing is drawn. XCopy Area does not respect the plane mask.

ANSWER SUMMARY:
The problems you reported have been fixed in the forthcoming release of DG/UX X Windows for AViiON Systems, revision 4.30.

● STR:JAPN000000395
ORIG-ID: NDG 2253   REV: 4.20

PROBLEM SUMMARY:
Copying image data is slow.

ANSWER SUMMARY:
Your request to improve the performance of X Windows will be considered in a future revision of DG/UX X Windows for AViiON.

● STR:JAPN000000372
ORIG-ID: NDG 2229   REV: 4.20

PROBLEM SUMMARY:
stty command in .cshrc kills mwm.

ANSWER SUMMARY:
Since there is no controlling terminal to send the stty command to, mwm refuses to perform the operation. Please see the DG/UX X Windows Revision 4.20 release notice Section 5.2 item number 4 for a workaround.

● STR:JAPN000000369
ORIG-ID: NDG 2225   REV: 4.20

PROBLEM SUMMARY:
The position of a rectangular cursor is not derived from the same origin as the HOT POINT associated with it.

ANSWER SUMMARY:
This problem has been resolved in the forthcoming release of DG/UX X Windows for AViiON Systems, DG/UX revision 4.30.

● STR:JAPN000000368
ORIG-ID: NDG 2224   REV: 4.20

PROBLEM SUMMARY:
Request for enhancement to X for support of cursors that are larger than 32 * 32 dots.

ANSWER SUMMARY:
Your request to support cursors that are larger than 32*32 will be considered for a future release of DG/UX X Windows for AViiON Systems.

DG/UX X WINDOWS

● STR:JAPN000000348
  ORIG-ID: NDG 2205   REV: 4.20

  PROBLEM SUMMARY:
  The confliction occurs on X windows Kana Lock
  LED handling with AV300 Japanese keyboard.

  ANSWER SUMMARY:
  The likelihood of this problem occuring has been
  reduced in the keyboard driver software that will be
  available with DG/UX revision 4.40.

● STR:JAPN000000327
  ORIG-ID: NDG 2184   REV: 4.20

  PROBLEM SUMMARY:
  When using the Japanese keyboard, the left Alt key
  locks instead of the Kanalock key.

  ANSWER SUMMARY:
  The problem you reported has been fixed in the
  forthcoming release of X Windows for AViiON Sys-
  tems, 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 addi-
  tion 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.

GREEN HILLS FORTRAN-88000®

STR ANSWER REPORT
for GREEN HILLS FORTRAN 77 FOR AVIION UNIX
AS OF 05-23-90

● STR:HOLL000000261
ORIG-ID: REV: 184.90

PROBLEM SUMMARY:
At "list-directed read" the exponent "D.." is incorrectly 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:JAPN000000365
ORIG-ID: NDG 2221   REV: 8.40

PROBLEM SUMMARY:
Vertical Spacing

ANSWER SUMMARY:
The vertical spacing options that you mention are available only in VMS compatibility mode. Your program works as expected when compiled with a -vms switch.

● 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: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:NASC000005354
ORIG-ID: MIT-32890   REV: 1.84

PROBLEM SUMMARY:
List directed input does not work with real numbers using the "D" type for exponent.

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: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 performance and other issues, this feature will not be implemented 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 requests for specific features on a case by case basis.

GREEN HILLS FORTRAN-88000®

● 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.

● STR:JAPN000000384
ORIG-ID: NDG 2242   REV: 1.84

PROBLEM SUMMARY:
Reference Document Unclear.

ANSWER SUMMARY:
The VMS mode vs. ANSI mode feature of Green-
Hills F77 has an effect on nearly every part of the lan-
guage. A detailed listing of the differences would be
almost as large as the language itself. A new manual
is being release with revision 1.8.5 of GreenHills F77,
which details all of these differences much better than
the current manual.

● STR:AUSC000005301
ORIG-ID: REV: 1.84

PROBLEM SUMMARY:
GREENHILLS COMPILER PRODUCES INCON-
SISTANT RESULTS WITH SDB DEBUGGER

ANSWER SUMMARY:
Fixed in revision 1.8.5 of Green Hills F77.

● STR:AUSC000005300
ORIG-ID: REV: 1.84

PROBLEM SUMMARY:
GREENHILLS FORTRAN COMPILER WILL NOT
COMPILE WITH DEBUG SWITCHES

ANSWER SUMMARY:
See section 5.2 of the GreenHills F77 Update
Notice (ghf77_un), page 9, item 5: "There is currently
a limitation in the COFF debugging format that causes
multiply defined common blocks to emit multiply-
defined symbols. This prevents code with multiply
defined common blocks from being compiled with the
-g switch for debugging."

Mxdb for AViiON ™ SYSTEMS

PROGRAMMING NOTES/DOCUMENTATION

MXDB (AX) REV 1.00

MXDB "STEP" PERFORMANCE

When doing a STEP command in Mxdb, you may find that it sometimes takes several minutes for Mxdb to respond. This occurs whenever the STEP command takes you into a language's runtimes, which contain no debugging information. Mxdb will STEP through each instruction in the runtime, causing your process to appear to be hung. This can also occur if you STEP into one of your own subprograms, and that subprogram has not been compiled with the appropriate debug switches.

To avoid this, use the STEP ,HERE command. This tells Mxdb to STEP to the next line in the current source code module, and not to try to STEP through each instruction of an externally-compiled module. If you are using the GUI, the button that is labelled NEXT performs a STEP ,HERE or you may enter the command in the command pane.

Mxdb for AViiON ™ SYSTEMS

SDLC for AViiON ™ SYSTEMS

PROGRAMMING NOTES/DOCUMENTATION

SDLC (AViiON) Rev 2.00

New patch level / updated flash and dev_sdcp_driver.a files.

SDLC patch level 01 fixes a problem where user's of SNA for AViiON Systems would experience DG/UX panic codes of 2000107 when deactivating the SNA server.

Patch level 01 for SDLC for AViiON systems is now available from Data General. The update file is in DG/UX tar format.

To apply this patch, replace the existing files with the flash and dev_sdcp_driver.a provided in the update, and rebuild your DG/UX kernel. Consult the SDLC for AViiON Systems release notice for the location of these files on your system.

SDLC for AViiON ™ SYSTEMS

SDLC for AViiON ™ SYSTEMS

STR ANSWER REPORT
for SDLC FOR AVIION SYSTEMS
AS OF 05-23-90

- 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 AViiON ™ SYSTEMS

BUSINESS BASIC for AViiON SYSTEMS

STR ANSWER REPORT

for BUSINESS BASIC FOR AVIION SYSTEMS

AS OF 05-23-90

- **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 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:UKSC000038356**
  ORIG-ID: UX/BB SUBSCRI   REV: 1.00

  PROBLEM SUMMARY:
  UX/BBASIC 1.00, When doing a BLOCK READ FILE in from a data file of 212 bytes to a string (DIM'd to 2560 bytes), a LEN(P$) will show length to be 212 bytes. Under VS/BBASIC this would return 512 bytes.

  ANSWER SUMMARY:
  This problem is corrected in the next revision or update after revision 1.00 of Business BASIC for AViiON systems.

- **STR:UKSC000038265**
  ORIG-ID: UX/BBASIC KEY   REV: 1.00

  PROBLEM SUMMARY:
  DGUX/BBASIC rev 1.00, The Key C3 and Key C1 definitions in the supplied TERMINFO_BBUX file appear to be the same.

  ANSWER SUMMARY:
  The terminal definition for vt220_bbux is corrected in revision 1.01 of DG/UX Business BASIC.

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.

ICOBOL for AViiON (Unlimited Users)

STR ANSWER REPORT

for INTERACTIVE COBOL FOR AVIION SYSTEMS

AS OF 05-23-90

● STR:WEBO000036187
  ORIG-ID: BEL90018   REV: 1.51

PROBLEM SUMMARY:
Compiler reports error "maximum PD file size exceeded" if a DELETE FILE statement is used with multiple files.

ANSWER SUMMARY:
This problem has been fixed in revision 1.60. The compiler no longer reports an error when multiple files are used in a DELETE FILE statement that is then followed by another i/o statement with multiple files.

● STR:WEBO000036186
  ORIG-ID: BEL90019   REV: 1.51

PROBLEM SUMMARY:
The AX-ICOBOL compiler reports an abort and ask to submit an str if there is no other errors. There are no other errors.

ANSWER SUMMARY:
This problem has been corrected in revision 1.60. The compiler no longer aborts when table items are used in simple COMPUTE statements.

● STR:UKSC000038039
  ORIG-ID: REV: 1.51

PROBLEM SUMMARY:
Problems with typing ahead. Intermittantly, If using a known path through menus instead of selecting options 1,3,5,7 options 1,3,3,5 are selected.

ANSWER SUMMARY:
This has been fixed in the modules provided on AWARE, and in revision 1.60 of ICOBOL on dg/ux and 386/ix. Typing ahead will no longer cause intermittent loss of input characters.

● STR:NASC000005578
  ORIG-ID: Q10857   REV: 1.51

PROBLEM SUMMARY:
Receiving error "If this message persists after you have corrected all other errors, please submit a Software Trouble Report" at compile time. The program compiles fine under AOS/VS ICOBOL 1.52.

ANSWER SUMMARY:
This problem has been corrected in Revision 1.60 of Interactive COBOL on the DG/UX and 386/ix operating systems. The compiler will no longer abort when parsing a WRITE ... ADVANCING < identifier > statement that is included within an IF statement.

● STR:NASC000005561
  ORIG-ID: NP003   REV: 1.51

PROBLEM SUMMARY:
Invalid key branch statement not working correctly.

ANSWER SUMMARY:
This problem will be fixed in revision 1.60 of Interactive COBOL on DG/UX and 386/ix. The START statement will correctly raise a file status error code of 23 when trying to START on a key which is greater than the last key value in the file.

● STR:NASC000005560
  ORIG-ID: NP002   REV: 1.51

PROBLEM SUMMARY:
Alternate key ordering problem in the Compiler.

ANSWER SUMMARY:
This problem will be fixed in revision 1.60 of ICOBOL for DG/UX and 386/ix. The compiler will order alternate keys according to their order of appearance in the FD record description rather than by their order of appearance in the SELECT clause.

● STR:NASC000005559
  ORIG-ID: NP001   REV: 1.51

PROBLEM SUMMARY:
Compiler Bug. Same Record Area Clause - when this clause is used, Icobol considers all the files mentioned to have a record length equal to that of the largest file.

ANSWER SUMMARY:
This problem will be fixed in revision 1.60 of ICOBOL for DG/UX and 386/ix. The compiler will no longer give each file mentioned in the SAME AREA clause, the maximum record length. Each file will now be given its correct record length.

● STR:AUSC000005180
  ORIG-ID: REV: 1.51

PROBLEM SUMMARY:
ICX TERMINALS ABORT

ICOBOL for AViiON (Unlimited Users)

ANSWER SUMMARY:
The problem is no longer reproducible after the local SE installed the latest terminal services library module. ICX connections aborting is no longer being experienced.

● STR:AUSC000005174
ORIG-ID: REV: 1.51

PROBLEM SUMMARY:
PROBLEM PRINTING TO $LPT UNDER ICOBOL

ANSWER SUMMARY:
This has been fixed in the update modules provided on AWARE, and in revision 1.60 of ICOBOL for dg/ux and 386/ix. A file ASSIGN'd to PRINTER will be sent to the UNIX print spooler as soon as the file has been closed.

● STR:AUSC000005173
ORIG-ID: REV: 1.51

PROBLEM SUMMARY:
TYPING AHEAD UNDER ICOBOL CAUSES DATA CORRUPTION

ANSWER SUMMARY:
This is fixed in the update modules provided on AWARE and in revision 1.60 of ICOBOL on dg/ux and 386/ix. Typing ahead will no longer cause data corruption.

● STR:UKSC000038041
ORIG-ID: REV: 1.50

PROBLEM SUMMARY:
When printing to spool file, printing only occurs when leaving ICX.

ANSWER SUMMARY:
This has been fixed in the modules provided on AWARE, and in revision 1.60 of ICOBOL for dg/ux and 386/ix. A spool file will be released to the UNIX print spooler as soon as the file is closed.

● STR:UKSC000038038
ORIG-ID: REV: 1.50

PROBLEM SUMMARY:
A space filled numeric input field is treated as zero by AOS/VS icobol, but produces an error under AViiON icobol

ANSWER SUMMARY:
This has been fixed in the modules provided on AWARE, and in revision 1.60 of ICOBOL on dg/ux and 386/ix. A space filled numeric input field will be interpreted as zero.

● 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.