

DG/UX NEWSLETTER

UPDATE 8 - 1990

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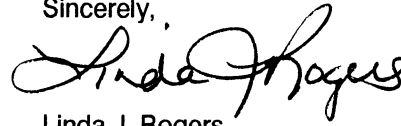
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The newsletter has been designed for you to either replace the pages or insert them behind the appropriate section of your base copy.

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 your base copy (Volume II) Newsletter.

HOT OFF THE PRESS!**MARKETING ANNOUNCEMENTS/PRESS RELEASES****MORE MASS STORAGE OPTIONS FOR AViiON AND MV/FAMILY**

This month, Data General offers several new products to help you keep pace with your growing mass storage needs.

Rackmount CSS2 Chassis

A new second-generation Combined Storage Subsystem (CSS2) rackmount chassis offers additional capacity and configurability to MV/Family and AViiON systems -- as well as introducing differential SCSI packaging options to both system families. The chassis has (all front-access) room for up to seven SCSI peripherals in its 10 half-height slots. The CSS2 takes 8.75 inches of vertical rackspace, and is available only in the Data General grey color. The CSS2 is available in a variety of configurations, packaged with 179MB (AViiON only), 332MB, 662MB, and 1.0GB Winchester disks and cartridge tape drives. Add-ins include the 590MB erasable optical disk, and (on AViiON only) the 600MB CD-ROM optical disk and the 3.5" and 5.25" floppy disk drives.

The CSS2 rackmount chassis can support a differential SCSI interface, to be used in conjunction with the 1.0GB Winchester disk drive.

The basic CSS2 chassis has a power supply which powers the fans and the first four half-height slots in the chassis. If more than four half-height slots are required, or if more than two QIC tape drives are required, then an additional power supply must be ordered.

Peripherals may be transferred from an existing CSS to the new CSS2 chassis, and a universal mounting kit has been defined to enable that process.

320/525MB Tape Drive Add-ons

New, 5.25" half-height form factor QIC tape drives for MV/Family and AViiON systems add higher capacity and higher transfer speeds to these two product lines, while complementing the existing 150MB capacity QIC tape drive. The capacity of the new drive is 320MB with Model 10751 cartridge tape, and 525MB with Model 18766 cartridge tape. This drive can also read and write in the (Open Systems Standard) QIC-120 and QIC-150 MB modes, and can read QIC-24 tapes.

On BMC MV/Family systems, the tape drive is interfaced via an integrated 9-track (MTJ) emulator board. On AViiON systems, this interface PCB is not required. The tape drive can be housed internally on certain systems, in the CSS rackmount chassis, the new CSS2 rackmount chassis, as well as the PHU (Peripheral Housing Unit).

This tape drive can transfer data at up to 240KB/second, or over twice the rate of the existing 150MB QIC tape drive. In addition, an internal buffer of 256KB assists in keeping the throughput of this (streaming) device at an optimum level. The tape drive operates at 96 inches per second while using a QIC-24, QIC-120, or QIC-150 cartridge. The tape speed is 120 ips when using the QIC-320 or QIC-525 cartridges. Transfer rate varies from up to 96KB/sec. with QIC-24, to 120KB/sec. with QIC-120/150, to 240KB/sec. with QIC-320/525.

1GB Disk Add-ons

The new, 5.25" full-height form factor Winchester disk for MV/Family and AViiON systems has full gigabyte storage capability in one drive, delivering high-end single-ended SCSI bus capability. The formatted capacity of the disk drive is 1.0GB (SCSI), with 64KB of on-board buffering, and an average seek time of 15 milliseconds.

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The 1.0GB disk drive is available on BMC MV/Family systems in a differential SCSI model which interfaces to the existing Model 6434 host adaptor. A differential SCSI interface enables systems to use a longer bus length (up to 25 meters). This 1.0GB disk drive displaces the 8", 727MB Model 6492 disk drive on MV/Family systems.

The drive is based on the industry-standard 1200MB (unformatted) Head-Drive-Assembly, and has an average seek time of 15 milliseconds (min. 4ms, max. 34ms). Average rotational latency is 8.33ms.

Differential AViiON SCSI Controller

A new host adapter adds differential SCSI (Models 7415/7415-V) to AViiON systems as well. This enables systems to use a bus up to 25 meters in length (versus six meters for single-ended). Single-ended and differential SCSI cannot be intermixed on the same bus.

NEW AND ENHANCED DATA MANAGEMENT PRODUCTS

New data management products and major revisions of existing products enhance -- and demonstrate Data General's continued commitment to -- the ECLIPSE MV/Family. The new products include:

DG/SQL Connection Server 1.00 lets MV/Family-based application programs access remote DG/SQL databases transparent to application programs. This product supports all languages currently supported in DG/SQL, including 3GLs, report writers (e.g. PRESENT) and 4GLs (e.g. DG/INGRES, POWERHOUSE, CQCS). DG/SQL Connection Server 1.00 supports AOS/VS II and XTS II. It provides increased performance in MRC and LAN environments over that of DG/SQL Remote Agent (RQA) because of its Ring 0 implementation. Connection Server and RQA cannot interoperate, although they can exist on the same system.

DG/INGRES NET 6.21 lets INGRES-based application programs (on any INGRES platform, including PC and AViiON) access remote DG/SQL databases on an MV/Family system. It also lets DG/INGRES applications running on an MV/Family system access remote INGRES databases on other vendors' systems. DG/INGRES NET supports AOS/VS II and TCP/IP. The remote system requires INGRES/NET with TCP/IP protocol support and INGRES RDBMS (on server systems) or INGRES tools/applications (on client systems).

INFOS Connection Server for AViiON Systems 1.00 lets AViiON based application programs access remote INFOS II files on an MV/Family system. It supports C, Cobol 85, FORTRAN 77, PL/1 and the DG/UX TCP/IP protocol. It requires INFOS Connection Server 1.10 and full INFOS 6.00 on the MV/Family server system. INFOS Connection Server 1.10 adds TCP/IP and XTS II WAN support to the INFOS Connection Server product.

The major database products have been enhanced as follows:

DG/SQL 5.00 is a major enhancement of DG/SQL offering approximately twice the performance of DG/SQL 4.1 measured in TPS using the ET1 benchmark. In addition to the very significant improvement in performance, other new features include ANSI Level 2 support, higher availability and DSA support using DG/SQL Connection Server, higher user counts and improved concurrency control.

INFOS II 6.00 improves checkpoint performance by a factor of two to three times. Other major enhancements include improved scalability, the addition of a user-tunable environment, the introduction of a common programming interface, and an updated INQUIRE utility. The new user-tunable environment allows increased flexibility in tailoring system performance.

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DG/INGRES 6.21 provides support for DG/SQL 5.00, and includes DG/INGRES NET -- which supports interoperability with INGRES applications and databases on a range of hardware platforms, including AViiON systems.

D216E + ERGONOMIC TERMINAL

The ergonomic version of Data General's D216 + terminal - the D216E + - is now available for immediate delivery. Enhancements to the D216E + include 25-line operation with status line; PC-term mode; DG/UX mode; dual DB-25 ports; local auto-print capability; and, US/French-Canadian/German/UK 101/102 keyboard support.

The D216E + terminal was designed for use in both Scandinavia and West Germany where compliance with the DIN and VDE ergonomic standards are requirements. It offers a 70Hz screen refresh and enhanced character cell of 10 x 15 pixels. The D216E + comes in both green and amber, but only the amber version is DIN compliant. To meet DIN requirements the background/foreground contrast ratio is lessened, and X-ray emission compliance and GS labels are affixed to the outside of the monitor. Additionally, the terminal has a specialized video design which minimizes magnetic (H field) radiation exposure to the operator.

DG/UX TAPE INTERCHANGE UTILITIES

The DG/UX Tape Interchange Utilities are a set of three tape utilities (Tape Load, Tape Import/Export and Tape Copy) that extend the interchange capability between DG/UX and other systems. They provide high-speed, flexible tape interchange between the AOS/VS and DG/UX operating systems, as well as other proprietary operating systems. These high-performance tape utilities meet the needs of DG/UX system users who require standard interchange tape utilities, such as ANSI tapes, for UNIX based systems. The DG/UX Tape Interchange Utilities also allow DG/UX users with libraries of DUMP tapes to retain these archives.

The Load utility enables DG/UX systems to read magnetic tapes created by the AOS/VS DUMP and DUMP II utilities in dumpfile format. The Load utility provides an extremely fast mechanism to move data from AOS/VS to DG/UX systems, and is suitable for migrating large volumes of data from ECLIPSE MV/Family systems or to bring archived data into a DG/UX system. This utility is typically used in environments where large amounts of data are transferred from the AOS/VS to DG/UX operating system, and where it is necessary to load files from tapes that have been archived.

The Load utility supports most features available under the AOS/VS LOAD/DUMP utilities, including selective loading of files by pathname. It provides the ability to restore files that were dumped to tape or disk created by AOS or AOS/VS using the DUMP_II or DUMP command. The dumpfile can be any file on a magnetic tape or a disk file. It provides the capability to: load from multiple-volume dump files that were created (by DUMP_II) on either labeled or unlabeled tape and support volume checking; specify complete templates for files types to be loaded or omitted; duplicate file structures or load into working directory; replace existing files with an optional user prompt; optionally load more recent duplicate files with an optional user prompt.

The Import/Export utility copies files between high-speed disk and magnetic tape and supports industry-standard, ANSI magnetic tape format. Its wide range of capabilities include: import/export to industry-standard tape including ANSI-labeled, unlabeled and non-standard labels; allow density specification (high, medium, or low) and block size; automatic switch between specified tape units; import/export multi-volume files at approximately 1 GB/hr; perform multi-volume, import/export operations, using ANSI-standard volume headers for single files; support volume ID and expiration date checking; and import/export variable length records.

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The Tape Copy can generate the exact duplicate of a tape on a system with only one tape unit, even if the tape format is unknown. This utility supports tape-to-tape, tape-to-disk, and disk-to-tape, volume-oriented copying. It allows specification of block size, supports copying of partial tape, and supports tape positioning for APPEND.

The DG/UX Tape Interchange Utilities are supported on AViiON servers and workstations under DG/UX Revision 4.20 or greater.

INTELLIBOOK GETS NEW FEATURES

Intellibook Revision 1.2 now utilizes standards-based AViiON servers and flexible Novell LAN configurations. Intellibook offers a highly 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.

The new revision provides even more robust functionality for developing and distributing hypermedia-based information products. It provides support for Novell Native and Portable NetWare servers; support for SGML text files; and screen presentation control. It also features enhanced image file support; enhanced hyperlink support for video integration; and more flexible Intellibook Reader configurations.

There is now a five Reader version which allows up to five network readers to share access to collections of information, and a five Reader Increment which increases this count by five. This will provide a more cost-effective licensing for larger reader communities.

DATA GENERAL INTRODUCES VECTOR PROCESSING AVIIION SYSTEMS FOR ENHANCED PERFORMANCE IN FLOATING POINT CALCULATIONS

Data General Corporation announced that AViiON workstations and servers are the first RISC-based systems to integrate vector processing capability. The result is increased performance in applications requiring complex calculations.

Designed for a range of applications, the Model 5069 vector processor targets systems integrators, labs, contractors, instrument manufacturers, and exploration firms for power demanded by signal, image, seismic, and other real-time processing uses.

The vector processor is a 32-bit single-precision, single-board option and performs up to 66 MFLOPS (million floating-point operations per second). A maximum of eight can be interconnected for a top performance of 528 MFLOPS in a single chassis. It incorporates an industry-standard VME data bus so it can be connected to a wide range of devices.

"The high performance is accomplished by a balanced combination of AViiON computing power, advanced microprocessor architecture, and the efficiency of communications between the vector processor and the host," said Jim Gargas, product manager for special-purpose AViiON products. "Also, by offering an integrated vector processor customers needing enhanced floating point performance now have a single vendor solution."

The Vector Processor Models come with 2 MB and 8 MB of memory. The price for a 2 MB board is \$8995, an 8 MB board is \$12,195. They are available 30 days after receipt of order.

Three VMEbus interfaces for connecting AViiON systems to external devices were also announced. "These interfaces are fully integrated and supported by Data General, saving customers time and money by providing a single vendor solution," said Gargas. The devices are:

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Model 5089/5099 VMEbus/DR11-W interface -- provides AViiON users with an emulation of the Digital Equipment Corporation DR11-W interface supporting most DR11-W devices and applications.

Model 5517 VMEbus/IEEE-488 bus interface -- provides an interface between the AViiON VME bus and the General Purpose Interface Bus (GPIB) defined by IEEE-488. This IEEE standard covers the connection of programmable and non-programmable electronic measurement devices, instrument systems and computers.

Model 5400 VME General Purpose VMEbus interface -- a general purpose interface for high-speed parallel block data transfer between AViiON computers and external devices.

Models 5089/5099 are priced at \$1895 and \$2995 respectively and are available 60 days after receipt of order. Model 5517 is priced at \$2400 and is available 30 days after receipt of order. Model 5400 is priced at \$4495 and is available 60 days after receipt of order.

Data General's AViiON Family of RISC-based workstations, server and multi-user systems are based on the Motorola 88000 architecture. The systems range in price and performance beginning with 17-MIPS workstation for \$5995 up to a dual processor, 50-MIPS server system priced at \$116,875. The systems run DG/UX 4.3, a commercial-grade implementation of UNIX, compatible with both UNIX System V.3 Release 2 from AT&T and Berkeley Software Distribution Revision 4.3.

AViiON and DG/UX are trademarks of Data General Corporation.

UNIX is a registered trademark of American Telephone and Telegraph Company.

ECLIPSE, DASHER and CEO are registered trademarks; DG/UX, AViiON, GEO Connection/LAN, Intellibook and CEO Object Office are trademarks of Data General Corporation.

MS-DOS is a registered trademark of Microsoft Corporation.

UNIX is a registered trademark of AT&T.

X Window System is a trademark of Massachusetts Institute of Technology.

WordPerfect is a trademark of WordPerfect.

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NEW PRODUCTS - IN BRIEF

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

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

AViiON Systems	
AVX-30 X-Window	012-003579-00
AV 300 Workstation	012-003496-02
AV 400 Workstation	012-003622-02
AV 400 Technical Brief	012-003677-01
AV 4000 Multi-User System/Server	012-003773-00
AV 5010 Multi-User System/Server	012-003774-00
AV 5200 Multi-User System/Server	012-003497-04
AV 6000 SERIES	012-003589-01
DG/UX for AViiON	012-003568-02
DG/AVLIB Graphics Library	012-003783-00
PAD for AViiON	012-003743-00
SDLC AViiON	012-003764-00
SNA 3270 AViiON	012-003767-00
SNA AViiON	012-003763-00
SNA RJE AViiON	012-003768-00
X.25 for AViiON	012-003744-00
FRAME MAKER	012-003769-00
TCP/IP for AViiON	012-003852-00

Business Automation	
CEO OBJECT OFFICE	012-003533-00
CEO OPTICAL ARCHIVER	012-003617-00
CEO SCANNER	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
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
Model 5517 Series VMEbus/IEEE-488 Bus Interface	012-003846-00
Model 5089/5099 Series VMEbus/DR-11 Interface	012-003843-00

Input/Output	
Model 5069 Series VMEbus Vector Processors	012-003844-0

Languages	
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
AOS/VS INFOS II	012-001344-04
DG/SQL	012-002313-04
DG/INGRES	012-003366-02

Mass Storage	
Model 6670 Series Removable Disk Subsystems	
	012-003894-00
Combined Storage Subsystem	012-003207-03
Combined Storage Subsystem/DC	012-003257-01

Operating Systems	
AOS/VS II	012-003382-01
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
AV 200 Workstation	012-003861-00
AViiON 3200 Server	012-003860-00
DASHER/286-12J	012-003834-00
DASHER/386-25K	012-003821-00

Peripherals	
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
150MB QIC Tape Drive	012-003761-01

Processors	
ECLIPSE MV/5500DC	012-003745-00
ECLIPSE MV/9500	012-003733-00
MV/18000	012-003686-00
MV/7800 XP	012-003236-03
AViiON AV6200 20-Slot VMEbus	012-003847-00
MV/3500 DC	012-003889-00

Services	
AViiON Software Services	012-003830-00
ON-SITE SELECT Service SM	012-003882-00

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

NEW PRODUCTS - IN BRIEF

SPOTLIGHT ON TRAINING

DG/UX LECTURE COURSES AND SEMINARS
November 1990 - December 1990

BOSTON Educational Center**Software Courses**

Date	Course Title	Course #	Days
Nov 13	Advanced UNIX Scripting	S181	3 NEW
Nov 26	Tailoring Looking Glass & OSF/Motif User Env	S182	2 NEW
Nov 26	Data Communications & Networking	DC131	5
Dec 3	XODIAC System Manager	DC220	5
Dec 3	INFOS II Utilization & Design	S306	5
Dec 3	DG/UX System Programming	S315	5
Dec 10	UNIX User	S205	5
Dec 17	DG/UX System Administration for AViiON	S288	5

Technical Seminars

Date	Course Title	Course #	Days
Nov 6	DG/UX Tuning Workshop	SM510	3 NEW
Nov 12	OSF/Motif Programming for C Programmers	SM588	3
Nov 28	Using & Administering FrameMaker 1.3	SM460	3
Dec 3	Novell System Manager 386	SM350	3 NEW
Dec 6	NetWare for AViiON Systems	SM351	2 NEW
Dec 18	AViiON Architecture	SM421	1
Dec 18	Using Function Point Analysis to Manage Software Projects	SM551	4

LOS ANGELES Educational Center**Software Courses**

Date	Course Title	Course #	Days
Nov 5	AViiON Foundations- Operation & Maintenance	H615	5 NEW
Nov 12	DG/SQL Utilization & Design	S317	5
Nov 26	Installing & Managing TCP/IP	DC260	5 NEW
Dec 10	UNIX User	S205	5
Dec 17	DG/UX System Administration for AViiON	S288	5

Technical Seminars

Date	Course Title	Course #	Days
Nov 13	Network Interoperability	SM490	4
Dec 5	X Windows Programming for C Programmers	SM488	3
Dec 10	OSF/Motif Programming for C Programmers	SM588	3

ATLANTA Educational Center**Software Courses**

Date	Course Title	Course #	Days
Nov 5	DG/UX System Programming	S315	5
Nov 13	CLI Macros	S161	2
Nov 26	UNIX Operator	S188	5
Dec 3	UNIX User	S205	5
Dec 10	DG/UX System Administration for AViiON	S288	5
Dec 17	Installing & Managing TCP/IP	DC260	5
Dec 18	Advanced UNIX Script Writing	S181	5 NEW

Technical Seminars

Date	Course Title	Course #	Days
Nov 7	X Windows Programming for C Programmers	SM488	3
Nov 13	DG/UX Tuning Workshop	SM510	3 NEW
Nov 26	OSF/Motif Programming for C Programmers	SM588	3

SPOTLIGHT ON TRAINING

CHICAGO Educational Center**Software Courses**

Date	Course Title	Course #	Days
Nov 5	UNIX User	S205	5
Nov 12	DG/UX System Administration for AViiON	S288	5

Technical Seminars

Date	Course Title	Course #	Days
Nov 27	AViiON SNA Training	SM726	2 NEW
Nov 29	X.25 for AViiON	SM747	2 NEW
Dec 3	C + + Programming Workshop	SM133	5
Dec 10	DG/UX Tuning Workshop	SM510	3 NEW

WASHINGTON D.C. Educational Center**Software Courses**

Date	Course Title	Course #	Days
Nov 5	DG/UX System Administration for AViiON	S288	5
Dec 3	Installing & Managing TCP/IP	DC260	5
Dec 17	DG/UX System Programming	S315	5

Technical Seminars

Date	Course Title	Course #	Days
Nov 12	INFOS Rev. 6 New Performance Options	SM206	3 NEW
Dec 10	C + + Programming Workshop	SM133	5
Dec 17	Using & Administering FrameMaker 1.3	SM460	3 NEW

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**DG/UX Tuning Workshop (SM510)**

Duration: 3 days

Why you should attend: This workshop is designed for AViiON system administrators interested in performance issues pertaining to the DG/UX operating system. The workshop is designed to improve the participant's understanding of system operation and the ways in which various factors can affect system performance. The focus of the course will be on the tunable attributes of the operating system configuration. Hands-on exercises will provide the opportunity to utilize the tuning techniques identified during the workshop.

Highlights:

- oProcess Scheduling
- oFiling System Considerations
- oImpact of NFS Products and Services
- oHardware Configuration Options
- oPerformance Tools and Techniques
- oCase Studies

Who Can Benefit: DG/UX system administrators and systems analysts.

Prerequisites: S288 (DG/UX System Administration for AViiON Systems)

SPOTLIGHT ON TRAINING

Seminar Leader: Kirk Manzer is an Education Specialist for Data General's Educational Services Department. Kirk's area of expertise is UNIX. He has been extensively involved in developing and delivering the UNIX curriculum for Educational Services during the past three years.

Hands on Workshop: Participants gain invaluable hands-on experience practicing the techniques and skills taught in this seminar.

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 508-898-2382.

EDUCATIONAL CONSULTANTS

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

Northeast
Peter Sherman
Boston
(508)232-4949

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

Southeast/Midwest
Ron Fitchko
Atlanta, GA
(404)441-2515

Northwest/Southwest
Steve Fanning
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****DG/UX REV 4.30 [boot device]**

Using the QIC-320/525 Tape Drive as Boot Device

The QIC-320/525 tape drive, Model Number 6677, will only support the QIC-150 media as the boot device. QIC-320 and QIC-525 tapes cannot be used as boot media.

This means to boot from a QIC-320/525 tape drive, using a command like "b st(isc(),4)" or "b st(cisc(),4)" from the SCM prompt requires a QIC-150 tape in the drive. QIC-150 is the normal media on which DG/UX is released. The QIC-320, QIC-525, and QIC-150 tapes can be used for cpio, tar, and dd images as well as system dump and file system dump media.

To use the QIC-320/525 tape drive as a boot device on any AV5000/6000 series machines requires PROM revision 5.04 or greater on the system board. This PROM level is required only if you will be using the QIC-320/525 tape drive as a boot device.

OS(DG/UX REV 4.30 [KERNEL, FILE SYSTEM])

DG/UX Technical Briefs Two and Three

Data General has just released DG/UX TECHNICAL BRIEF number two and DG/UX TECHNICAL BRIEF number three. Number two contains "A look at Disk Configurations on AViiON Systems" which compares and contrasts the different disk subsystems available on AViiONs. Number three contains "A look at the DG/UX File System" and includes information on logical disks, DARs, inodes, file storage, and file system performance. Both articles provide excellent insights into DG/UX AViiON systems and can be very helpful when tuning DG/UX applications, file systems, and operating system.



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

for DG/UX Fortran 77

AS OF 10-09-90

- STR:NASC000002764
ORIG-ID: Q831412 REV: 4.00

PROBLEM SUMMARY:

Mixed C and F77 programs not being linked correctly. I/O routines for F77 not being loaded.

ANSWER SUMMARY:

The problem which you reported cannot be reproduced using the DG-supplied link macro. Please check your altered link macro. If the error persists, please resubmit with more complete materials so the problem can be reproduced and investigated.

- STR:NASC000001510
ORIG-ID: CREED-001 REV: 4.00

PROBLEM SUMMARY:

DG/UX F77 Rev 4.00 install script errors out at end, when trying to change owner, group, and permissions on files in /usr/catman/p_man/man3. The error received is 'arg list too long'.

ANSWER SUMMARY:

The problem you reported will be corrected in the next release of DG/UX F77, revision 4.01.

- STR:NASC000001505
ORIG-ID: Q750335-00 REV: 4.00

PROBLEM SUMMARY:

After installing DG/UX F77 Revision 4.00 using sysadm, online man pages under /usr/catman/p_man are not accessible by any user other than the super-user.

ANSWER SUMMARY:

The problem you reported will be corrected in the next release of DG/UX F77, revision 4.01.

DG/UX FORTRAN 77

DG/UX OPERATING SYSTEM

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>DG/UX 4.30 is the standard operating system for Data General's line of industry-standard systems based on the Motorola 88100 Reduced Instruction Set Computer (RISC) microprocessor. DG/UX offers AViiON family support for workstations, servers, uniprocessor and N-way fully symmetric multiprocessor</p> <p>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.</p> <p>The DG/UX software may be bundled on the same tape with other products. In any case, DG/UX software components consist of :</p> <ul style="list-style-type: none"> ● DG/UX kernel, commands and libraries. ● GNU C compiler ● DTK: The Documenter's Tool Kit 	<p>Product: DG/UX™ System</p> <p>Model #: P001A</p> <p>Current Rev. 4.30 SSS Shipped: 07/90</p> <p>Previous Rev: 4.22 Support Effective Until: 01/01/91</p> <p>Release Notice: 085-600125-03</p>

DOCUMENTATION

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

DG/UX OPERATING SYSTEM

STREAMS Programmer's Guide	069-701034-00
BINARY Compatibility Standard	069-701043-01
Installing and Managing the DG/UX System	093-701052-02
Writing Device Driver for the DG/UX System	093-701053-03
User's Reference for the DG/UX System	093-701054-01
System Manager's Reference for the DG/UX System	093-701050-01
Programmer's Reference for the DG/UX System (V.1)	093-701055-01
Programmer's Reference for the DG/UX System (V.2)	093-701056-01
Using DG/UX System Kernal Debugger	093-701075-00
Programming in the DG/UX System Application Environment	093-701076-00
Using DG/UX Software Development Tools	093-701078-00
Addendum to Installing/Managing DG/UX System	086-000172-00
**Overview of the DG/UX Application Environment	069-701082-00
**Programming in the Kernal Environment	093-701083-00

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

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

DG/UX OPERATING SYSTEM

STR ANSWER REPORT

for DG/UX BASE SYSTEM FOR AVIION
AS OF 10-09-90

- STR:UKSC000041878
ORIG-ID: DG/UX 4.30 - REV: 4.30

PROBLEM SUMMARY:

System running DG/UX 4.30 panics every night. Dump displays panic 2000075.

ANSWER SUMMARY:

The only explanation for the state of the system as seen in the submitted system dump is a hardware failure on the memory board. Our recommendation is to replace the memory board and verify that its terminators are set properly. If the problem does recur once this has been done, please resubmit this STR.

- STR:UKSC000041121
ORIG-ID: FRAMEMAKER REV: 4.30

PROBLEM SUMMARY:

Problem using a 6480 postscript printer under DG/UX 4.20, 4.22 and 4.30 on AV300 and AV4000 systems. Print requests were in the queue, but they failed to print. The printer lights indicated activity, but nothing printed.

ANSWER SUMMARY:

A postscript model file is required to support a postscript printer. Such a file can be found on the contributed software tape, model number R006A in the formatters/post directory. It is sometimes necessary to modify the stty line in this file and change "ff1" and "cr2" to "ff0" and "cr0" respectively.

- STR:NASC000007117
ORIG-ID: AB002 REV: 4.30

PROBLEM SUMMARY:

Started system and loaded with jobs, enough to get message "Out of Swap Space".

ANSWER SUMMARY:

We are closing this STR as we discussed in our phone conversation. The problems that you have witnessed are typical when you run out of swap space. To avoid these problems, please increase your swap space.

- STR:NASC000007045
ORIG-ID: DYATRON-001 REV: 4.30

PROBLEM SUMMARY:

Reelexchange will not recognize a QIC150 tape created on an IBM System 36.

ANSWER SUMMARY:

Reelexchange uses an ioctl interface of 9-track tape media. This implies that reelexchange supports all 9-track tape media and any cartridge tape that uses the same ioctl interface (e.g. IBM 3480). The QIC-150 tapes, however, do not use this interface and therefore, are not supported by reelexchange.

- STR:NASC000007033
ORIG-ID: Q104190 REV: 4.30

PROBLEM SUMMARY:

System hangs. The system is hanging when idle as well as when user is running Universe 5.4 with Dynamo.

ANSWER SUMMARY:

We are closing this STR as we discussed in our phone conversation. After replacing the machine that was receiving memory parity errors, you have no longer experienced the problem. If the problem should reappear, please submit a new STR and reference this one.

- STR:NASC000006983
ORIG-ID: Q108300 REV: 4.30

PROBLEM SUMMARY:

When booting system and setting the run level at boot time, if the inittab file has a run level defined for boot, inittab will override the run level entered at boot time.

ANSWER SUMMARY:

It is already possible to override the run level specified in the inittab. The correct command line is: `b sd(inc(),0)root:/dgux -X`. X is the level that you wish to boot the system up under. When you tried this, you left out the "-" in your command line.

- STR:NASC000006976
ORIG-ID: Q111315 REV: 4.30

PROBLEM SUMMARY:

We need to be able to change the delay period to 111 milliseconds between the time that an exit is done and getty displays the prompt login:. We need to be able to do this in order for our data switch to complete a disconnect sequence.

DG/UX OPERATING SYSTEM

ANSWER SUMMARY:

This functionality can be provided by a shell script that includes a sleep and exec of getty. As you have verified, this script achieves your needs and you have agreed that this STR can be closed.

- STR:NASC000006830
ORIG-ID: Q102497 REV: 4.30

PROBLEM SUMMARY:

Can't kill a uugetty process, line was hung, System dump was taken.

ANSWER SUMMARY:

Patches 10 and 12 were installed and are currently running on your system. This has been confirmed to have fixed your problem. If your problem reappears, please submit a new STR with a system dump and image.

- STR:NASC000006755
ORIG-ID: Q97732 REV: 4.30

PROBLEM SUMMARY:

Ghf77 returns incorrect results when performing mathematical operations on mixed variable types.

ANSWER SUMMARY:

Several problems involving the handling of mixed-precision addition and subtraction of denormalized floating point numbers will be corrected in revision 4.40 of DG/UX. The fixes have been verified to resolve the problem reported in this STR. Patch 4.31.00.03 also contains these fixes and has already been supplied to you.

- STR:NASC000006626
ORIG-ID: Q080913 REV: 4.30

PROBLEM SUMMARY:

If the first line of a script submitted to cron is "#!/bin/csh" any use of redirection by the commands in the script is ignored.

ANSWER SUMMARY:

This problem with cron has been fixed in DG/UX Release 4.31. The problem with cron redirecting output for the csh was documented in the DG/UX 4.30 Release Notice under "Notes and Warnings", section 5.7 Commands. The workaround in the DG/UX 4.30 timeframe is to use the Bourne shell (i.e. use "#!/bin/sh" as the first line of the script).

- STR:NASC000006466
ORIG-ID: Q67816 REV: 4.30

PROBLEM SUMMARY:

AV412 single diskette no phu. DIR A: from OpenPC returns error in the unix console xwindow: disk device error @scsi id 3 unit 0 encountered.

ANSWER SUMMARY:

This problem was a result of a hardware problem with your disk drive. Since the field engineer added two additional jumpers to your disk drive, and your problem no longer exists, we are closing this STR.

- STR:JAPN00000468
ORIG-ID: NDG 2330 REV: 4.30

PROBLEM SUMMARY:

sysadm delswap does not recognize a logical disk name unless it is prefixed with /dev/dsk (eg /dev/dsk/swap2). This is contradictory to documentation in the Installing and Managing the DG/UX System and with sysadm addswap function.

ANSWER SUMMARY:

This inconsistency has been fixed in DG/UX 4.40.

- STR:GER 000014701
ORIG-ID: SC00172 REV: 4.30

PROBLEM SUMMARY:

sysmgmt/datetime does not cater for international time zones.

ANSWER SUMMARY:

Changes to sysadm in the DG/UX 4.40 Release will cater to international time zones. You will be able to use a timezone variable (TZ) with four characters. You will be able to define your own timezone. sysadm/datetime will correctly handle international timezones and not be restricted to the DG/UX 4.30 /etc/sysadm/timezone file.

- STR:NASC000006700
ORIG-ID: Q088489 REV: 4.22

PROBLEM SUMMARY:

A process hung on a VAC16 port. We did a kill -9 on the process, and that caused the complete system to hang.

ANSWER SUMMARY:

This problem is due to a problem in the Systech firmware on the asynchronous communication board and will be fixed in DG/UX 4.31. In the interim, if you are running DG/UX 4.22, patch dgux_4.22.00.37 is

DG/UX OPERATING SYSTEM

available as a fix for the VAC/16, and patch dgux_4.22.00.38 is available as a fix for the VDA/128. These patches have already been supplied to you.

- STR:NASC000006625
ORIG-ID: Q87461 REV: 4.22

PROBLEM SUMMARY:

DG/UX system hung during a halt. Dump taken at that time.

ANSWER SUMMARY:

Patches 10 and 12 for DG/UX revision 4.30 and patches 37 and 38 for revision 4.22 were sent and applied to your system. These patches are upgrades to the firmware. Patches 12 and 37 apply to the VAC16 and patches 10 and 38 apply to the VDA128. If you should experience similar problems in the future, please submit a new STR and reference this one.

- STR:NASC000006616
ORIG-ID: Q80903 REV: 4.22

PROBLEM SUMMARY:

System hangs upon attempting to kill a hung tty line.

ANSWER SUMMARY:

This problem is due to a problem in the Systech firmware on the asynchronous communication board and will be resolved in DG/UX 4.31. In the interim, if you are running DG/UX 4.22, patch dgux_4.22.00.37 is available as a fix for the VAC/16, and patch dgux_4.22.00.38 is available as a fix for the VDA/128. These patches have already been supplied to you.

- STR:NASC000006327
ORIG-ID: Q062962 REV: 4.22

PROBLEM SUMMARY:

Can NOT show all pids with ps -ef

ANSWER SUMMARY:

We are closing this STR as we discussed in our phone conversation. This problem stemmed from your SERVER application. This application had spawned off several other processes that were accessing the textfiles. When you restarted the server application, it could no longer access these textfiles, leading you to believe that there was a ghost process not on the ps -ef listing.

- STR:UKSC000041302
ORIG-ID: AV6000 HANG REV: 4.20

PROBLEM SUMMARY:

AV6000 hang.

ANSWER SUMMARY:

The problem exhibited on the system dump submitted with this STR is corrected in revision 4.31 of DG/UX. The fix is also available as a patch to either DG/UX 4.2x (patch 4.22.00.38) or DG/UX 4.30 (patch 4.30.00.10). These patches are available from any Data General support representative.

- STR:NASC000005886
ORIG-ID: Q32127 REV: 4.20

PROBLEM SUMMARY:

Problem with 1.2 gig Rams disk reporting hard error on master console.

ANSWER SUMMARY:

The cird() device driver was incorrectly reporting soft correctable errors to the master console as hard errors. This problem is corrected in DG/UX Release 4.40.

- STR:NASC000005756
ORIG-ID: CALTECH-61 REV: 4.20

PROBLEM SUMMARY:

Performing a "tar -cv ..." on a write-protected, mounted 150 Mb. cartridge tape device returns the message "No such device or address". A clearer error message should be returned.

ANSWER SUMMARY:

This is the standard error message that is returned from the device driver when such a failure occurs. However, in DG/UX Release 4.40, additional information on errors will be displayed for this type of problem via extended error reporting provided by DG/UX.

DG/UX OPERATING SYSTEM

ONC/NFS SYSTEM

STR ANSWER REPORT

for DG/UX NFS FOR AVIION

AS OF 10-09-90

- STR:JAPN000000401
ORIG-ID: NDG 2259 REV: 4.20

PROBLEM SUMMARY:
Sharp's lx workstation cannot mount AV server's disk.

ANSWER SUMMARY:
This problem will be corrected in revision 4.40 of DG/UX.

ONC/NFS SYSTEM

DG TCP/IP (DG/UX)**STR ANSWER REPORT**

for DG/UX TCP/IP FOR AVIION

AS OF 10-09-90

- STR:NASC000006686
ORIG-ID: Q86228 REV: 4.30

PROBLEM SUMMARY:

Customer is having trouble with the phrase "timing mark option]" being inserted into screens on applications such as vi or pg.

ANSWER SUMMARY:

Patch number 19 for TCP/IP was installed and tested on your system. This patch removed the timing marks. Please keep a copy of this patch for future 4.3x revisions.

DG TCP/IP (DG/UX)

DG/UX X WINDOWS

STR ANSWER REPORT

for DG/UX X WINDOWS FOR AVIION

AS OF 10-09-90

- STR:UKSC000042678
ORIG-ID: XTERMINAL REV: 4.30

PROBLEM SUMMARY:

Unable to get full vt100 keyboard operation from an Internation Keyboard when used with an AVX-30 workstation.

ANSWER SUMMARY:

Closed at customer's request.

- STR:NASC000007146
ORIG-ID: E059255 REV: 4.30

PROBLEM SUMMARY:

Warning - "XmNdialogTitle argument is not supported for the ZmNFormDialog Widget", is returned by the uil compiler when the XmNdialogTitle resource is initialized in a uil program.

ANSWER SUMMARY:

The problem you reported is fixed in OSF/Motif Revision 1.10. That version of OSF/Motif will be released with DG/UX revision 4.40.

- STR:NASC000007099
ORIG-ID: E59281 REV: 4.30

PROBLEM SUMMARY:

On an Avx30, Motif is disabled while the "num-lock" is on. The window management menus can't be accessed.

ANSWER SUMMARY:

The 'Num_Lock' key is setup as a modifier key on the X Terminal. You may use 'xmodmap -pm' to print the current modifier map. To remove the 'Num_Lock' key from the modifier map and resolve this problem, use 'xmodmap -e 'remove mod5 = Num_Lock'

- STR:NASC000007097
ORIG-ID: Q115866 REV: 4.30

PROBLEM SUMMARY:

Xwindows, when run on Avx30, fails to terminate clients if the Avx30 is powered off.

ANSWER SUMMARY:

This is a known problem that is documented in the first warning of the avx30 Release Notice. The X Clients do not support "keepalives". Rather than rewrite all of the X Clients, the X Consortium has

developed the X Display Manager Control Protocol (XDMCP) which is supported by the X11R4 X Server and the X11R4 version of xdm(). Both will be provided in DG/UX revision 4.40.

DG/UX X WINDOWS

GREEN HILLS C-88000®

STR ANSWER REPORT

for GREEN HILLS C FOR AVIION UNIX

AS OF 10-09-90

- STR:JAPN000000478
ORIG-ID: NDG 2339 REV: 1.85

PROBLEM SUMMARY:
Ghcc breaks words in shft jis codes.

ANSWER SUMMARY:
Fixed in revision 1.8.5.2 of Green Hills C.

- STR:JAPN000000477
ORIG-ID: NDG 2340 REV: 1.85

PROBLEM SUMMARY:
Preprocessor Problems

ANSWER SUMMARY:
Fixed in revision 1.8.5.2 of Green Hills C.

GREEN HILLS C-88000®

GREEN HILLS FORTRAN-88000®

STR ANSWER REPORT

for GREEN HILLS FORTRAN 77 FOR
AVIION UNIX
AS OF 10-09-90

- STR:JAPN000000469
ORIG-ID: NDG 2331 REV: 8.50

PROBLEM SUMMARY:
ghf77 1.8.5 front end problem

ANSWER SUMMARY:
Fixed in revision 1.8.5.2.

- STR:NASC000007101
ORIG-ID: E059280 REV: 1.85

PROBLEM SUMMARY:
Error - "Buss Error", returned at run time by ghf77 programs that are compiled with the -X18 switch.

ANSWER SUMMARY:
This problem has been Fixed in revision 1.8.5.2 of Green Hills FORTRAN 77 for DG/UX.

- STR:NASC000007013
ORIG-ID: Q108220 REV: 1.85

PROBLEM SUMMARY:
Error - "Undefined symbol error", returned from ld when NAMELISTS are used in ghf77.

ANSWER SUMMARY:
This will be fixed in revision 1.8.5.2 of DG/UX Green Hills F77.

- STR:NASC000006936
ORIG-ID: 900907.3 REV: 1.85

PROBLEM SUMMARY:
GHF77 will not accept double quotes (") as delimiters for CHARACTER constants.

ANSWER SUMMARY:
This enhancement cannot be implemented. In VMS mode, a double quote (") can be used to indicate an octal constant. See the documentation on octal constants in the Green Hills F77 Reference Manual.

- STR:NASC000006933
ORIG-ID: 900907.1 REV: 1.85

PROBLEM SUMMARY:
SAVE statement that appears before CHARACTER array declaration results in TYPE CONFLICT error message at compile time.

ANSWER SUMMARY:
This problem is fixed in revision 1.8.5.2 of Green Hills F77. We have sent you this release. Please upgrade your system at your earliest convenience.

- STR:NASC000006906
ORIG-ID: OR-AV-1 REV: 1.85

PROBLEM SUMMARY:
The compiler optimizer improperly moves a statement out of an IF block within a DO loop, thus producing an incorrect floating point exception (division by zero).

ANSWER SUMMARY:
We are closing this STR at your request. We were unable to get your program to fail. If you should continue to have a problem, please submit a new STR and reference this one.

- STR:NASC000006979
ORIG-ID: OR-AV-2 REV: 1.84

PROBLEM SUMMARY:
The computer produces incorrect code for a NAMELIST read when the variable in question is also in both a COMMON and an EQUIVALENCE statement in the same program unit.

ANSWER SUMMARY:
This problem is fixed in revision 1.8.5 of Green Hills F77. Please upgrade your system at your earliest convenience.

GREEN HILLS FORTRAN-88000®

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

for Multi-extensible Debugger for Aviiion
Systems

AS OF 10-09-90

- STR:NASC000007007
ORIG-ID: Q112128 REV: 1.10

PROBLEM SUMMARY:

Using Mxdb's "extern-evaluate" macro to examine external structures and arrays is impractical and cumbersome, to the point of being un-usable.

ANSWER SUMMARY:

This problem will be corrected in the next revision or update after 1.10. In the next version, Mxdb will have the ability to evaluate global variables. Extern-evaluate is intended to be a workaround, not a final solution.

- STR:NASC000007005
ORIG-ID: Q106996 REV: 1.10

PROBLEM SUMMARY:

Using the Mxdb "extern-evaluate" macro to examine structures and arrays is very impractical when working with a large number of modules.

ANSWER SUMMARY:

This problem will be fixed in the next revision or update after 1.10. In the next version, Mxdb will have the capability to evaluate global variables. Extern-evaluate is intended to be a workaround only, not a permanent part of the product.

- STR:NASC000005639
ORIG-ID: Q994492 REV: 1.00

PROBLEM SUMMARY:

Error "Error Name 'remote_var1' was not found", returned by Mxdb from an Evaluate command on a global variable in a remote function.

ANSWER SUMMARY:

Fixed in the next revision or update of Mxdb after 1.10. This revision will allow the user to evaluate global variables.

Mxdb for AViON™ SYSTEMS

SDLC for AViiON™ SYSTEMS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>SDLC for AViiON Systems is the AViiON Synchronous Communications Package which supports Synchronous Data Link Control protocols on a switched or dedicated communication line. It can operate as a multipoint tributary or as a primary point to point link station.</p>	<p>Product: SDLC for AViiON™ SYSTEMS</p> <p>Model #: C010B</p> <p>Current Rev. 2.10 SSS Shipped: 07/20/90 Update 01 SSS Shipped: 10/09/90</p> <p>Previous Rev: 2.00 Support Effective Until: 01/01/91</p> <p>Release Notice: 085-000556-01 Update Notice: 078-000275-00</p>

DOCUMENTATION

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

SDLC for AVIION™ SYSTEMS

386/ix BASE RUNTIME MULTI USER**STR ANSWER REPORT**

for 386/IX 'MULTI-USER'

AS OF 10-09-90

- STR:UKSC000041819
ORIG-ID: 386IX SWAPSEG REV: 2.02

PROBLEM SUMMARY:

swapseg panic when using sysadm backup to 150 Mb tape drive.

ANSWER SUMMARY:

We have been unable to reproduce the problem with the materials provided. It is possible that the problem could be hardware related. If the problem continues to occur, please resubmit this STR and provide a stack trace.

- STR:UKSC000041534
ORIG-ID: 386IX - PANIC REV: 2.02

PROBLEM SUMMARY:

386/25c running 386/ix 2.02 panic'd while at prompt. Message was: athd_int
never got non_busy 0x000000D1, trying to dump 1952 pages.

ANSWER SUMMARY:

The string "athd" indicates a problem with the hard disk. This problem was traced to an oversight when the disk was low-level formatted. When running the low level format utility, alternate sectors should not be specified and the drive must be jumpered to match.

386/ix BASE RUNTIME MULTI USER

BUSINESS BASIC for AViION SYSTEMS**STR ANSWER REPORT**

for BUSINESS BASIC FOR AViION SYS-
TEMS

AS OF 10-09-90

- STR:WEBO000036444
ORIG-ID: BEL90071 REV: 1.02

PROBLEM SUMMARY:

Doing a print file(x),A\$ with x the channel of a opened file in this case a print device ex: \$LPT which has been mapped to a physical queue lp, and a\$ containing exactly 132 characters, produces the error "line too long".

ANSWER SUMMARY:

This problem with PRINT FILE is corrected for the next revision or update after revision 1.02 of Business BASIC for AViION Systems. Replacement files are available to correct this problem in revision 1.02.

BUSINESS BASIC for AVIION SYSTEMS

ICOBOL For AVIION (Unlimited Users)**PROGRAMMING NOTES/DOCUMENTATION****AX-COBOL-I Replacement Modules**

A new compiler and a new runtime system are being released to correct some problems discovered in Interactive COBOL 1.60 on DG/UX. In addition, two library files are being released in order that the runtime system can be rebuilt which contains these fixes. These new modules will fix the problems and will result in the following corrected behavior:

Compiler

- * The compiler will no longer abort when it encounters a MOVE CORRESPONDING statement in an IF statement or in an in-line PERFORM statement. (STR WEBO-36431)
- * The compiler will now produce correct code so that the ON SIZE ERROR clause will be raised when the COMPUTE statement uses two intermediate results.
- * The compiler will now produce correct code for an alternate key that is qualified in the SELECT statement.
- * The compiler will now always apply group item attributes to each of the subordinate elementary items within the group. For example, a group item declared with USAGE COMPUTATIONAL will result in each of its subordinate items having a USAGE of COMPUTATIONAL. In this case, record lengths will now be calculated correctly. (STR ITAL-0069 & UKSC-41997)
- * The compiler will now generate correct code for a MOVE A TO B C statement where both A and C are table elements. Data-item C will now correctly contain the contents of data-item A. (STR UKSC-41954)
- * The compiler will produce correct code for moving data to level 88 items and for evaluating level 88 items.
- * The compiler will no longer abort when encountering a large group item with various PICTURE clauses and a VALUE IS ZERO clause specified at the group level. (STR UKSC-41708)

Runtime and Minisam

- * MINISAM will no longer position to the wrong record when using the relational operator "> =" in a START statement. (STR ITAL-0076)
- * The runtime system will correctly close files ASSIGNED to DISPLAY on a CALL PROGRAM statement. Programs will no longer hang when a display file is not explicitly closed before chaining to another program. (STR UKSC-41872)
- * The runtime system will correctly calculate a fractional remainder in a DIVIDE statement. Also, the runtime system will correctly perform ROUNDing operations in a DIVIDE statement. (STR UKSC-41850)
- * The runtime system will correctly align data when performing a numeric SCREEN item move to a group item. (STR UKSC-41955)
- * The runtime system will clear all ESCAPE KEY code values when performing a CALL PROGRAM statement.

In addition to these fixes, the runtime system provided was built using the libraries from DG/UX 4.30. This will result in improved performance in some cases, especially when doing alphanumeric moves.

The tar dump file, ic160.01.tar, is in tar format and contains the following files:

config/libmisam.a	bin/icx
config/libicx.a	bin/icobol

To load these files into the ICOBOL directory structure, do the following:

- 1) Make backups of the aforementioned files
- 2) Change directories to /usr/opt/icobol_1.60 or \$IC_ROOT
- 3) Bring servers down with ic_down, so no one will be accessing icx
- 4) Become superuser
- 5) tar -xvf ic160.01.tar

ICOBOL For AVIION (Unlimited Users)

ICOBOL For AVIIION (Unlimited Users)

STR ANSWER REPORT

for INTERACTIVE COBOL FOR AVIIION
SYSTEMS
AS OF 10-09-90

- STR:UKSC000043166
ORIG-ID:

REV: 160.01

PROBLEM SUMMARY:

Getting an error "If this message persists please raise an STR" when program contains line 'READ file NEXT INVALID KEY GO TO ..'. Other compilers give an error that INVALID KEY is illegal with READ NEXT.

ANSWER SUMMARY:

This problem will be fixed in ICOBOL revision 1.70 for DG/UX and 386/ix systems. The compiler will report an error when using the INVALID KEY clause with a READ...NEXT statement.

- STR:UKSC000043016
ORIG-ID:

REV: 1.60

PROBLEM SUMMARY:

The unix compiler correctly reports illegal column number for col 0, but incorrectly reports a SYM error, and does not correct the error, resulting in an 'invalid opcode' error at runtime.

ANSWER SUMMARY:

This problem is corrected in revision 1.70 on dg/ux and 386/ix systems. The compiler will take the appropriate action when encountering a value of zero for a line number in the SCREEN SECTION.

- STR:UKSC000042601
ORIG-ID:

REV: 1.60

PROBLEM SUMMARY:

A Screen picture of 'pic z(3)9.99CR' gives an 'invalid picture symbol' error from the compiler. 'pic z(3)9.99cr' compiles cleanly.

ANSWER SUMMARY:

Problem will be fixed in revision 1.70 of ICOBOL on DG/UX and 386/ix systems. The compiler will no longer produce an error when a program contains both a PIC 9CR declaration and the clause CURRENCY SIGN IS "#".

- STR:UKSC000042492

ORIG-ID: IF PROBLEM

REV: 1.60

PROBLEM SUMMARY:

IF statement like 'IF d1 NOT + "X" AND (d2 = "Y" OR "Z")' does not work correctly when compiled on an AViiON using rev 1.60 AX-ICOBOL.

ANSWER SUMMARY:

The problem will be fixed in ICOBOL revision 1.70 on DG/UX and 386/ix systems. The compiler will produce correct code for compound combined abbreviated conditionals.

ICOBOL For AVIION (Unlimited Users)

NETWARE SERVICES for AViiON SYSTEMS**STR ANSWER REPORT****for NetWare Services for AViiON Systems****AS OF 10-09-90**

- STR:WEBO000036451
ORIG-ID: 63406 REV: 1.00

PROBLEM SUMMARY:

Print jobs are being generated by the Netware users, jobs are being sent to the print queues but DG/UX is not printing these jobs.

ANSWER SUMMARY:

Since this problem occurred after a system crash, its impossible for us to reproduce it here. We believe that the Print Server has lost its connection with the queues since you can print successfully, but the Print Server never picks up the print jobs and delivers them to DG/UX print queues.

NETWARE SERVICES for AVIION SYSTEMS

FrameMaker®**PROGRAMMING NOTES/DOCUMENTATION**

FRAMEMAKER® REV 1.3

**NETWORK REQUIREMENTS FOR
FRAMEMAKER AND LOOKING GLASS**

FrameMaker 1.3 requires that a network be present in order for the FrameMaker License Server to run. Looking Glass REV license server requires that the network board be configured when a system is run at level 3. Therefore to run both FrameMaker and Looking glass on a standalone workstation, users are required to configure TCP/IP to use the network board, and to bring the system up to run level 3. As both FrameMaker and Looking Glass will attempt to go across the network to locate other license servers, users must also terminate the network to locate other license servers, users must also terminate the network board. The network board may be terminated by attaching a transceiver and terminating the transceiver. A loopback connector on the network port of the host may also be used. A loopback connector consists of a male DB 15 shell and jack post hardware. Pin 3 is looped to pin 5 and pin 10 to pin 12.

**FRAMEMAKER STARTS MULTIPLE LICENSE
SERVER PAIRS**

If you are running FrameMaker 1.3 on a DG/UX 4.30 system set up for networking, which is not actually on a physical network, you will experience problems getting a FrameMaker license. FrameMaker is unable to detect that the license server is running and will attempt to restart the license server, causing multiple license server pairs to run. FrameMaker will be unable to verify the licensing information and will inform the user that s/he could not get a license or that no licenses are available.

The FrameMaker 1.3 licenser server requires a network in order to work correctly. There are two ways of working around this problem. The first is to follow the directions in Section 8.10 of the FrameMaker 1.3 release notice (085-600233-00) for setting up a network to support loop interface only. This procedure uses network to support the loop interface only. This procedure uses only the internal loopback for networking, and FrameMaker will not try to communicate with the license server by going out of the network board. If users do not wish to set up a system for internal loopback, then the external network needs to be terminated. The external network can be terminated by attaching a loopback connector to the network port.

A loopback connector consists of a male DB 15 shell and jackpost hardware. Pin 3 is looped to pin 5 and pin 10 is looped to pin 12.

This problem does not occur on DG/UX 4.20 systems running FrameMaker 1.3.



NETWISE RPC TOOL/UX NETBIOS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the RPC TOOL for AViiON systems product. RPC tool for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using Remote Procedure Call (RPC) technology. The interface to the RPC TOOL for AViiON Systems is derived from standard C syntax and declarations. Likewise, all output is C source code, capable of being compiled by your C compiler.</p> <p>RPC TOOL for AViiON Systems is a ported version of the Netwise RPC TOOL. Model Numbers C064A and C071A of the RPC TOOL for AViiON Systems software consists of the following four main components Model numbers C066A and C073A of the RPC TOOL FOR AViiON Systems software consist of the Network Library component only.</p> <ul style="list-style-type: none"> RPC Compiler Network Library Server Control Procedures RPC Extensions 	<p>Product: NETWISE RPC TOOL/UX NETBIOS</p> <p>Model #: C064A</p> <p>Current Rev. 1.00 SSS Shipped: 10/90</p> <p>Release Notice: 085-001168-00</p>

DOCUMENTATION

Title	Part Number
The Quick Start Guide	069-000490-00
The C Language RPC TOOL User Guide	069-000489-00
The C Language RPC TOOL Reference for TLI/NetBIOS on AViiON Series Systems	069-000509-00

NETWISE RPC TOOL/UX NETBIOS

NETWISE RPC TOOL/UX NETBIOS (NON U.S.)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the RPC TOOL for AViiON systems product. RPC tool for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using Remote Procedure Call (RPC) technology. The interface to the RPC TOOL for AViiON Systems is derived from standard C syntax and declarations. Likewise, all output is C source code, capable of being compiled by your C compiler. RPC TOOL for AViiON Systems is a ported version of the Netwise RPC TOOL. Model Numbers C064A and C071A of the RPC TOOL for AViiON Systems software consists of the following four main components. Model numbers C066A and C073A of the RPC TOOL for AViiON Systems software consist of the Network Library component only.</p> <ul style="list-style-type: none"> RPC Compiler Network Library Server Control Procedures RPC Extensions 	<p>Product: NETWISE RPC TOOL/UX NETBIOS (Non U.S.)</p> <p>Model #: C071A</p> <p>Current Rev. 1.00 SSS Shipped: 10/90</p> <p>Release Notice: 085-001168-00</p>

DOCUMENTATION

Title	Part Number
The Quick Start Guide	069-000490-00
The C Language RPC TOOL User Guide	069-000489-00
The C Language RPC TOOL Reference for TLI/NetBIOS AViiON Series Systems	069-000509-00

NETWISE RPC TOOL/UX NETBIOS (NON U.S.)

UX/NETBIOS NETWORK LIBRARY

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
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DOCUMENTATION

Title	Part Number
The Quick Start Guide	069-000490-00
The C Language RPC TOOL User Guide	069-000489-00
The C Language RPC TOOL Reference for TLI/NetBIOS on AViiON Series Systems	069-000509-00

UX/NETBIOS NETWORK LIBRARY

UX/NETBIOS NETWORK LIBRARY (NON-U.S.)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the RPC TOOL for AViiON systems product. RPC tool for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using Remote Procedure Call (RPC) technology. The interface to the RPC TOOL for AViiON Systems is derived from standard C syntax and declarations. Likewise, all output is C source code, capable of being compiled by your C compiler.</p> <p>RPC TOOL for AViiON Systems is a ported version of the Netwise RPC TOOL. Model Numbers C064A and C071A of the RPC TOOL for AViiON Systems consist of the following four main components. Model Numbers C066A and C073A of the RPC TOOL for AViiON Systems software consists of the Network Library Component only.</p> <ul style="list-style-type: none"> RPC Compiler Network Library Server Control Procedures RPC Extensions 	<p>Product: UX/NETbios NETWORK LIBRARY (Non U.S.)</p> <p>Model #: C073A</p> <p>Current Rev. 1.00 SSS Shipped: 10/90</p> <p>Release Notice: 085-001168-00</p>

DOCUMENTATION

Title	Part Number
The Quick Start Guide	069-000490-00
The C Language RPC TOOL User Guide	069-000489-00
The C Language RPC TOOL Reference for TLI/NetBIOS on AViiON Series Systems	069-000509-00

UX/NETBIOS NETWORK LIBRARY (NON-U.S.)

SDK: RPC TOOL W/NETBIOS AViiON & MS/DOS VHS/NTSC

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the SDK for AViiON System product. SDK for PC LANs 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using either Remote Procedure Call (RPC) technology or a transport specific interface. The SDK consists of a number of different pieces. The following is a brief description of each component.</p> <p>Video Training tape - A video training tape called DAA OPEN LAN Software Developers' Kit overview and Technical Discussion is provided. The part number of this tape will vary according to the type of viewing format.</p> <p>Remote Procedure Call (RPC) Tool - The RPC TOOL for AViiON systems (RPC TOOL) is provided for distributed applications development. Every model of the SDK will include the RPC Tool for AViiON systems (TLI/NetBIOS), Part number 079-000239-00. Each SDK will also include an RPC Tool for the DOS client platform.</p> <p>Multi-Extensible Debugger - Mxdb is a C source level symbolic debugger that runs on AViiON DG/UX systems, model number R007APN. For more information on Mxdb, refer to the Mxdb release notice, part number 085-600206.xx</p>	<p>Product: SDK: RPC TOOL W/NETBIOS AViiON & MS/DOS VHS/NTSC</p> <p>Model #: C061A</p> <p>Current Rev. 1.00 SSS Shipped: 10/90</p> <p>Release Notice: 085-001167-00</p>

DOCUMENTATION

Title	Part Number
Learning UNIX Operating System	069-701042-00
Using the DG/UX System User Guide	069-701035-01
Using the DG/UX System Editors	069-701036-01
C, A Reference Manual	069-100226-00
Using DG/UX Software Development Tools for AViiON	093-701078-00
Porting Applications to DG/UX System	069-701059-01
Programming in DG/UX's Application's Environment	093-701076-00
POSIX Standards Manual	069-701045-01
BCS Manual	069-701043-01
OCS Manual	069-701044-01

SDK:RPC TOOL W/NETBIOS AVIIION & MS/DOS VHS/NTSC

SDK: RPC TOOL W/NETBIOS AViiON & MS/DOS VHS/PAL
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the SDK for AViiON System product. SDK for PC LANs 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using either Remote Procedure Call (RPC) technology or a transport specific interface.</p> <p>The SDK consists of a number of different pieces. The following is a brief description of each component.</p> <p>Video Training tape - A video training tape called DAA OPEN LAN Software Developers' Kit - Overview and Technical Discussion is provided. The part number of this tape will vary according to the type of viewing format.</p> <p>Remote Procedure Call (RPC) Tool - The RPC TOOL for AViiON systems (RPC TOOL) is provided for distributed applications development. Every model of the SDK will include the RPC Tool for AViiON systems (TLI/NetBIOS), Part number 079-000239-00. Each SDK will also include an RPC Tool for the DOS client platform.</p> <p>Multi-Extensible Debugger - Mxdb is a C source level symbolic debugger that runs on AViiON DG/UX systems, model number R007APN. For more information on Mxdb, refer to the Mxdb release notice 085-600206-xx.</p>	<p>Product: SDK: RPC TOOL W/NETBIOS AViiON & MS/DOS VHS/PAL</p> <p>Model #: C062A</p> <p>Current Rev. 1.00 SSS Shipped: 10/90</p> <p>Release Notice: 085-001167-00</p>

DOCUMENTATION

Title	Part Number
Learning UNIX Operating System	069-701042-00
Using the DG/UX SystemL User Guide	069-701035-01
Using the DG/UX System Editors	069-701036-01
C, A Reference Manual	069-100226-00
Using DG/UX Software Development Tools for AViiON	093-701078-00
Porting Applications to DG/UX System	069-701059-01
Programming in DG/UX's Application's Environment	093-701076-00
POSIX Standards Manual	069-701045-01
BCS Manual	069-701043-01
OCS Manual	069-701044-01

SDK:RPC TOOL W/NETBIOS AVIIION & MS/DOS VHS/PAL

386/IX ONC/NFS MULTI USER

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>386/ix ONC/NFS is an implementation of the Open Network Computing/Network File System (ONC/NFS) Release 3.2, which runs on the 386/ix UNIX Operating System for the DASHER/386 UNIX systems. This operating system facility provides distributed file system services for remote file sharing in a heterogeneous environment. Users can access remote files and directories on different computer architectures as if they were on the local system.</p> <p>The ONC/NFS software defines a simple protocol for transparent, high-performance remote file sharing in a multi-vendor system environment. 386/ix ONC/NFS interoperates with ONC/NFS on DG/UX systems as well as on systems from Sun Microsystems, Digital Equipment Corporation and others. Machines used as file servers provide resources that users can access as local file systems: users do not have to physically transfer a file in order to use it. Because file system access is transparent, existing applications do not have to be modified, or even re-compiled, to be able to access remote file systems</p>	<p>Product: 386/ix ONC/NFS MULTI USER</p> <p>Model #: C005B</p> <p>Current Rev. 2.00 SSS Shipped: 10/90</p> <p>Release Notice: 085-600082-01</p>

DOCUMENTATION	
Title	Part Number
386/ix NFS Guide and Release Notes	069-701060-00
386/ix NFS Yellow Pages Guide and Release Notes	069-701061-00

386/ix ONC/NFS MULTIUSER