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INTRODUCING THE SOFTWARE NEWSLETTER

EDITOR'S CORNER

Dear Customers,

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

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We have recently been made aware of a couple of oversights in the DG/UX newsletter. The STR section for DG/UX for AViiON Systems was inadvertently omitted. This has been corrected in Update 6. Technical information for DG/UX for AViiON ™ Systems appeared under DG/UX for the MV/Family (Section 3, beginning 1-3). We expect to have this corrected with Update 7.

We apologize for any inconvenience this may have caused you.

Don't forget to complete your Customer Survey and mail it back to us. Now is the time to let us know if this newsletter is meeting your needs.

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, inda ' 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

NEW REMOVABLE DISK SUBSYSTEMS

Data General Model 6670 series removable disk subsystems are high-performance, removable Winchester storage systems for use with AViiON and ECLIPSE MV/Family processors. Available in a variety of configurations, these units are ideal for new system installations, or as mass storage upgrades to existing disk-pack systems.

All information is stored on removable modules, allowing users to transport and safeguard data. The advanced design of the 6670 provides high capacity and performance in a compact package. Each subsystem supports one or two storage modules, with each module storing 332 MB or 662 MB of information. Using multiple controllers, a system may be configured to access a maximum of 10,592 megabytes from Model 6670 subsystems.

AViiON and MV/Family customers will find that the compact Model 6670 subsystems allow more space for system expansion -- particularly beneficial for VARs, OEMs, and systems integrators. Customers using disk-pack drives will find significant benefits in upgrading to these subsystems. The high-capacity Winchester technology offers small size, low power requirements, increased reliability, and significantly-reduced floor space. Users of non-removable Winchester drives will find the data security and transportability offered by Model 6670 subsystems to be major system enhancements.

The Model 6670, designed for high performance, offers an extensive array of features, including: multiple command queueing; seek optimization; retry management; dynamic multiple transfer buffer allocation; host memory address translation and mapping; and on-line device formatting. Also standard are built-in diagnostics, integral formatting capability, transparent defect mapping at format time, and sector-level error correction (ECC).

The 6670 controller operates under the direction of microcode instructions stored within the system. New microcode is easily installed using the Peripheral Microcode Installer (PMI) available from Data General. Advanced disk control permits transfer rates of up to 1.6 MB, with average disk-head seek times of 14 ms (332-MB module), and 16.5 ms (662-MB module).

The lightweight storage modules allow you to easily transport data for a variety of applications. For example, modules containing system files can be transferred between CPUs, stored in a secure area, or used to change operating system environments. MIS managers will particularly benefit from the minimum space required to store the modules. And, add-on modules permit easy expansion for future data storage requirements.

Key-operated interlocks allow module removal only after all reads and writes are completed. This feature prevents accidental damage to heads and disk, and safeguards data. Additionally, the high-security lock prevents unauthorized module removal.

The 6670 series includes rack-mounted models, as well as tabletop configurations for workstation environments. Panel colors are coordinated to processor families.

Model 6670 subsystems can be configured to meet a wide variety of application requirements. One or two storage modules can be configured per 6670 chassis; two chassis can be configured per controller. Interfacing to AViiON systems is via SCSI controller. ECLIPSE MV/Family L-Bus systems utilize the SCSI interface; other MV/Family systems interface via single-slot BMC controllers.

These subsystems are compatible with any Data General ECLIPSE MV/Family processor running the AOS/VS or AOS/VS II operating system. Operation on AViiON systems is under the DG/UX operating system.

HOT OFF THE PRESS!

NEW MASS STORAGE OPTIONS FOR MV/FAMILY

150 MB QIC Tape

This new 5.25-inch half-height 150 MB QIC (Quarter Inch Cartridge) adds backup tape functionality to MV/Family systems, and enhances interchangeability with AViiON systems. This tape drive operates as either a standard tape product under AOS/VS (MTJ) or in device mode using CPIO/TAR for file interchange with AViiON systems.

More Options for PHU on LBUS Systems

Several popular Data General 5.25-inch SCSI mass storage peripherals can now be added into the PHU (Peripheral Housing Unit) for existing LBUS systems or included in new systems. These units include the 150 MB QIC tape drive, the 2 GB 8mm cartridge tape drive, and Winchester disks of 179 MB, 322 MB, 332 MB, and 662 MB capacities.

The PHU, first announced with AViiON systems, houses up to three half-height or one full-height 5.25inch SCSI peripherals.

To operate with the MV/1000 DC, MV/1400 DC, MV/2000 DC (enhanced), and MV/2500 DC systems, new system microcode must be installed from the appropriate revision of SCP media. In addition, for some of these systems, a termination power board (Model 10760-E) must be installed in the PHU. Minimum revisions of the operating system may also be required depending on the specific peripheral.

UPDATE TO MS-DOS ICOBOL RUNTIME

Revision 1.52 of MS-DOS ICOBOL Runtime introduces a major enhancement to the Printer Access Scheduling System (PASS) and introduces a new feature, filename translation. In addition, support has been added for PS/2 microchannel asynch boards, and the CALL statement performance has been improved.

PASS now enables users to spool named disk files, similar to the PASS system under RDOS and DG/RDOS. Named files are much easier to manage and the user has several options varying from automatic print to manual queuing. With the new spooler system call it is no longer necessary to recompile each time the user wishes to change a printer from one QTY line or LPTx: printer port to another.

The ability to translate characters within filenames internal to an ICOBOL application is supported in this revision, and the concept of filename links have been introduced. If an application has hard-coded AOS/VS pathnames, you can translate the AOS/VS directory separator, :, to the MS-DOS directory separator, \.

IBM PS/2 Dual Asynchronous Adapter/A: up to four boards or eight serial lines are supported which, when coupled with the master console, result in a maximum user count of nine.

The algorithm for writing to the Virtual Memory (VM) file has been enhanced to recognize when a .PD image of a parent already exists in the VM file. Only the .DD image is written, saving a significant amount of time and space. In addition, minor enhancements have been made to key handling enabling alternate behavior for the Up-Arrow key and generating an ESCAPE code for the SHIFT-HOME and CTRL-SHIFT-HOME keys.

HOT OFF THE PRESS!

DATA GENERAL EXPANDS INTEROPERABILITY FOR ITS AVIION SYSTEMS

Westboro, Mass. Data General Corporation announced three third-party software packages that provide a wide range of interoperability capabilities for Data General AViiON[™] systems and DASHER[™]/386 personal computers running DG/UX[™]. Under distribution agreements, Data General will sell the following packages:

* Systems Strategies, Inc.'s EXPRESS® family of IBM communication software, letting AViiON system and DASHER/386 system users communicate with IBM mainframes. EXPRESS interoperates through IBM's 3270, RJE, LU 6.2 and Netview applications over SDLC, QLLC and bisynchronous networks.

* Locus Computing Corporation's PC-Interface software, enabling PC users to use a DG/UX system as a transparent file and print server. PC-Interface also lets PC users emulate VT 100 and VT 220 terminals. Data General will additionally sell PC Xsight software that transforms PCs into inexpensive X Window graphic terminals. PC Xsight and PC-Interface operate over Ethernet or asynchronous transports.

* Communications Research Group's BLAST II family of asynchronous communications software, giving AViiON users file transfer capabilities and DASHER and VT 220 terminal emulation. The software also provides a scripted language for automated communications.

For example, BLAST II would allow an AViiON system user in a corporate office to write an application that automatically collects daily sales receipts residing on disparate operating systems in remote locations. BLAST II for AViiON operates over Ethernet or asynchronous transports.

"Our AViiON and DASHER/386 UNIX system-based platforms are designed as open systems that give the customer the freedom to chose from a wide variety of communication solutions," says Andrea Girardi, Software Business Unit manager, Communications Group at Data General. "With EXPRESS, Data General UNIX system-based users have enhanced interoperability with IBM mainframes. With BLAST II, they can exchange data residing on more than 30 major operating systems. And with PC-Interface and PC Xsight, PC users can access UNIX systems easily and inexpensively."

Data General is a manufacturer of computer and communication systems for business, industry, education and government. The company reported revenues for fiscal year 1989 of \$1.31 billion. Data General AViiON systems, initially introduced in February, 1989, use the Motorola 88000 RISC microproce ssor and a commercial-grade version of UNIX® system-based software called DG/UX.

3 + Open is a trademark of 3Com Corporation.

ECLIPSE and CEO is a registered trademark and DASHER/386, DG/UX, CEO Connection/Lan, CEO

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

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

MS-DOS ICOBOL Runtime revision 1.52 continues to be both object and data file compatible with AOS/VS ICOBOL Revision 1.53, Dasher/386 ICOBOL (386/ix) Revision 1.51, and AViiON ICOBOL Revision 1.51.

MS-DOS, MS-NET and MS-NET Redirector are trademarks of Microsoft Corporation.

EXPRESS is a registered trademark of SSI.

UNIX is a registered trademark of AT&T.

DG/UX Newsletter

NEW PRODUCTS - IN BRIEF

The following product briefs may be your local Sales Representative	e ordered from	Languages AOS/VS II TCP/IP AOS/VS II ONC/NFS	012-002333-05 012-003782-00
Description	Part Number	DG/INGRES	012-003366-01
		MS-DOS ICOBOL	012-002385-02
Applications Software		MICROFOCUS COBOL/2	012-003714-00
INTELLIBOOK	012-003425-00	FORMS	012-003713-00
INTELLIBOOK Product Brief BASELINK	012-003625-01 012-003410-02	Mooo Storogo	
DAJELINK	012-003410-02	Mass Storage Model 6670 Series Removable Disk	Subsystems
AViiON Systems			012-003894-00
AVX-30 X-Window	012-003579-00	Combined Storage Subsystem	012-003207-03
AV 300 Workstation	012-003496-02	Combined Storage Subsystem/DC	012-003257-01
AV 400 Workstation	012-003622-02		
AV 400 Technical Brief	012-003677-01	Operating Systems	
AV 4000 Multi-User System/Server	012-003773-00	AOS/VS II	012-003382-01
AV 5010 Multi-User System/Server		386/ix	012-003352-02
A) (5000 Multi Llean Sustem /Sen on	012-003774-00	DC /ll(arkatationa	
AV 5200 Multi-User System/Server	012-003497-04	PC/Workstations DASHER/286-12c	012-003615-00
AV 6000 SERIES	012-003589-01	DASHER/386 Product Brief	012-003356-00
DG/UX for AViiON	012-003568-02	DASHER/386-25 DOS	012-003609-00
DG/AVLIB Graphics Library	012-003783-00	DASHER/386sx	012-003590-00
PAD for AVIION	012-003743-00	DASHER/386SX-16	012-003786-00
SDLC AVIION	012-003764-00	DASHER/386-16c	012-003687-00
SNA 3270 AViiON	012-003767-00	WALKABOUT/SX	012-003676-00
SNA AVIION	012-003763-00	AV 200 Workstation	012-003861-00
SNA RJE AVIION	012-003768-00	AViiON 3200 Server	012-003860-00
X.25 for AViiON	012-003744-00	DASHER/286-12J	012-003834-00
FRAME MAKER TCP/IP for AViiON	012-003769-00 012-003852-00	DASHER/386-25K	012-003821-00
	012-000002-00		
Business Automation		Peripherals	
CEO OBJECT OFFICE	012-003533-00	6594 DOT MATRIX	012-003491-00
CEO OPTICAL ARCHIVER	012-003617-00	DATASOUTH Printer 10692	012-003755-00
CEO SCANREADER	012-003537-00	DATASOUTH Printer 10693	012-003754-00
Communications Coffware		DATASOUTH Printer 10696	012-003753-00
Communications Software DG/PCI	012-003029-04	MOD 5070D Optical Disk MOD 6552 Optical Disk	012-003062-00 012-003529-00
MS-NET	012-003029-04	WALKABOUT Terminal	012-003514-01
ONC/NFS	012-003550-01	OKIDATA MICROLINE 320/321	012-003811-00
TCP/IP	012-002333-05	150MB QIC Tape Drive	012-003761-01
COMMUNICATIONS Server	012-003698-00		
NETWARE For AViiON System	012-003757-00	Processors	
NETWARE For MV Family System	012-003795-00	ECLIPSE MV/5500DC ECLIPSE MV/9500	012-003745-00
NETWISE RPC Tool NOVELL ADVANCED NETWARE V2	012-003792-00	MV/18000	012-003733-00 012-003686-00
	012-003791-00	MV/7800 XP	012-003236-03
	012-000/51 00	AViiON AV6200 20-Slot VMebus Sys	
Communications Hardware			012-003847-00
TermServer	012-003278-02		
Model 5517 Series VMEbus/IEEE-4		Services	
Interface	012-003846-00	AViiON Software Services ON-SITE SELECT Service SM	012-003830-00
Model 5089/5099 Series VMEbus/D		ON-SITE SELECT Service Sim	012-003882-00
Interface	012-003843-00	Systems Software	
Input/Output		MXDB	012-003650-00
Model 5069 Series VMEbus Vector	Processors	OpenPC	012-003632-00
	012-003844-0	• • • • •	

NEW PRODUCTS - IN BRIEF

SPOTLIGHT ON TRAINING

CUSTOMER EDUCATION SCHEDULE

TYPES OF TRAINING OFFERED BY EDUCATIONAL SERVICES

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

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

o Technical Seminars - These high level technical seminars are conducted by expert 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 available at conveniently located Education Centers around the country.

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

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

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

o Documentation - Important documentation for your Data General system is available through TIPS (Technical Information and Publications Service). This specialized service provides Data General Customers with quick convenient access to technical documentation packages, software manuals, programmer's handbooks, At A Glance Reference Guides and keyboard templates. In addition, 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 documentation supporting Data General's hardware and software products can be found in the TIPS catalog.

SPOTLIGHT ON TRAINING

Educational Services DG/UX LECTURE COURSES AND SEMINARS September 1990 - November 1990

BOSTON Educational Center Software Courses Date **Course Title** Course # Days C Programming in a DG Environment Sept 17 S125 5 DG/UX System Programming S315 5 Sept 24 **UNIX User** 5 Oct 8 S205 Oct 15 DG/UX System Administration S288 5 Oct 22 Installing & Managing TCP/IP DC260 5 Advanced UNIX Scripting Nov 13 **3 NEW** S181 Tailoring Looking Glass & OSF/Motif User Env Nov 26 S182 2 NEW

Hardware Courses

Date	Course Title	Course #	Days
Sept 10	Data Communiations & Networking	DC131	5
Sept 17	AViiON Foundations - Operate & Maintain	H615	5 NEW
Nov 26	Data Communiations & Networking	DC131	5

Technical Seminars

Date	Course Title	Course #	Days
Sept 14	AViiON Architecture	SM421	1
Sept 10	Network Interoperability	SM490	4
Oct 8	Novell System Manager 386	SM350	3 NEW
Oct 11	NetWare for AViiON Systems	SM351	2 NEW
Oct 16	AViiON Architecture	SM421	1
Oct 22	C++ Programming Workshop	SM133	5
Oct 29	X Window Programming for C Programmers	SM488	3
Nov 12	OSF/Motif Programming for C Programmers	SM588	3
Nov 28	Using & Administering FrameMaker 1.3	SM460	3

LOS ANGELES Educational Center

Sonware Courses	S		
Date	Course Title	Course #	Days
Sept 10	Installing & Managing TCP/IP	DC260	5 NEW
Oct 1	C Programming in the DG Environment	S125	5
Oct 2	Using OFFICE/Publisher	OA308	3
Oct 29	DG/UX System Programming	S315	5
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
Technical Semina	ars		
Date	Course Title	Course #	Days
Sept 11	DG/SQL Rev 5 Features and Enhancements	SM120	3 NEW
Sept 19	X Windows Programming for C Programmers	SM488	3
Sept 24	OSF/Motif Programming for C Programmers	SM588	3
Oct 22	C++ Programming Workshop	SM133	5
Nov 13	Network Interoperability	SM490	4
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SPOTEIGHT ON TRAINING

ATLANTA Educatio	onal Center		
Software Courses			
Date	Course Title	Course #	Days
Sept 17	UNIX User	S205	5
Sept 24	DG/UX System Administration for AViiON	S288	5
Oct 15	Data Communications & Networking	DC131	5
Oct 15	COBOL Programming with INFOS II	S107	5
Oct 29	C Programming in the DG Environment	S125	5
Nov 5	DG/UX System Programming	S315	5
Nov 26	UNIX Operator	S188	5 NEW
NUV 20	UNIX Operator	5100	SINEW
Technical Seminar			
		Oa	Davia
Date	Course Title	Course #	Days
Oct 1	C++ Programming Workshop	SM133	5
Oct 9	Network Interoperability	SM490	4
Oct 29	Troubleshooting & Performance for XTS&XTS II	SM444	5
Oct 30	INFOS Rev 6:New Performance Options	SM206	3 NEW
Nov 7	X Windows Programming for C Programmers	SM488	3
Nov 26	OSF/Motif Programming for C Programmers	SM588	3
1101 20		0	0
CHICAGO Educat	ional Center		
Software Courses			
		Course #	Dava
Date		Course #	Days
Sept 5	Advanced UNIX Script Writing	S181	3 NEW
Oct 15	XODIAC System Manager	DC220	5
Nov 5	UNIX User	S205	5
Nov 12	DG/UX System Administration for AViiON	S288	5
Technical Seminar	Ϋ́S		
Date	Course Title	Course #	Days
Oct 2	INFOS Rev 6:New Performance Options	SM206	3 NEW
•••=	···· ···· - ····	•	•••=••
WASHINGTON D	C. Educational Center		
Software Courses			
	-	Course //	Davia
Date	Course Title	Course #	Days
Sept 17	INFOS II Utilization & Design	S306	5
Sept 24	XODIAC System Manager	DC220	5
Oct 29	UNIX User	S205	5
Oct 30	Advanced UNIX Scripting	S181	3 NEW
Nov 5	DG/UX System Administration for AViiON	S288	5
	-		
Technical Seminar	′S		
Date	Course Title	Course #	Days
Oct 3	X Windows Programming for C Programmers	SM488	3
Oct 8	OSF/Motif Programming for C Programmers	SM588	3
Oct 16	TermServer/TermManager Install & Configure	SM417	4
Nov 12	INFOS Rev. 6 New Performance Options	SM206	3 NEW
		011200	

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

SPOTLIGHT ON TRAINING

What's New in Educational Services

S181 Advanced UNIX Script Writing

Description:

This complete course will teach you how to write and interpret complex scripts used for system administration and operations, program development and general user assistance in both the Bourne and the C shells. You will be provided with numerous examples as well as information on interfacing with existing UNIX utilities. Lab exercises will focus on creating scripts to perform either repetitive or complex tasks.

Who Should Attend:

Everyone who works with scripts, including general users, programmers, system administrators and operations personnel.

Prerequisites:

Experience with the vi editor is required. A working knowledge of basic UNIX utilities and an understanding of both the Bourne and C Shells is necessary. S205 is highly recommended for those who have little or no UNIX experience.

Course Benefits:

- * You will learn process invocation techniques, including how to invoke processes as current or child processes.
- * You will learn how to use the tracing and variable echo options to aid in script debugging.
- * You will learn how to use the UNIX utilities via a script.
- * You will learn how to control interactive utilities via a script.
- * You will learn how to incorporate an "include" file in your scripts to maintain a library of repeatedly used functions.
- * You will learn how to incorporate your scripts as either interactive, time-dependant or run-level operations.
- * You will learn how to create a menu-based system, and how to test for input responses.
- * You will learn how to open and close disk files for either input or output to your scripts.

Topics:

Getting Started o The Shell o Utilities o Bourne Shell Environment o C Shell Environment o Controlling Utilities o Defining Commonly Used Routines o Incorporating scripts into the system

Duration: 3 Days

SPOTLICHT ON TRAINING

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SPIDTE(CHTEDNEIRAINING

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DG/UX			
STR ANSWER REPORT	STR ANSWER REPORT		
for International Multi-User DG/UX	for DG/UX U.S. Administration		
AS OF 08-14-90	AS OF 08-14-90		
• STR:WEBO000036239 ORIG-ID: BEL90029 REV: 4.20	• STR:NASC000006361 ORIG-ID: Q66673 REV: 4.02		
PROBLEM SUMMARY: All printers hang, first one, then the others. Hap- pens once or twice a day. Needs system reboot to get out.	PROBLEM SUMMARY: DG/UX 4.02 cannot restore a dump of a model 6621 disk with the restore option in sysadm.		
	ANSWER SUMMARY: As verified by the customer, this problem was due to a hardware problem with the model 6621 disk. After replacing the model 6621 disk and taking a new dump, the restore command worked successfully. The disk also displayed signs of i/o panics and other problems. Analysis of the dump taken on the suspect disk showed signs of file system corruption.		

DG/UX STR ANSWER REPORT for Multi-User DG/UX AS OF 08-14-90 STR:NASC00006174 **REV:** 4.22 ORIG-ID: Q53758 **PROBLEM SUMMARY:** Parent process will not go away after child process has been killed ANSWER SUMMARY: As we discussed in our telephone conversation we are closing this STR with your approval, as the DUMP tape you supplied with this STR was unreadable. Should this problem occur again on your system please feel free to submit another STR at that time.

DG/UX RM/COBOL STR ANSWER REPORT for DG/UX RM/COBOL AS OF 08-14-90 • STR:WEBO000133712 ORIG-ID: 7111-DBSI.UX. REV: 1.00 **PROBLEM SUMMARY:** RUNCOBOL (the runtime interpreter) does NOT initialize the TERMINFO environment in a consistent manner (noticed in the RM/COBOL supplied module "SUB"). ANSWER SUMMARY: Since you are no longer experiencing this problem, we are closing this STR with your approval. STR:WEBO000133710 ORIG-ID: 7111-DBSI.UX. REV: 1.00 **PROBLEM SUMMARY:** RM/COBOL Compiler aborts when compiling LARGE programs. ANSWER SUMMARY: Since you are no longer experiencing this problem, we are closing this STR with your approval.

DC/UX RM/COBOL

DG/UX TCP/IP

PROGRAMMING NOTES/DOCUMENTATION

TCP_IP (DG/UX) Rev 4.30 [/etc/svcorder]

The importance of /etc/svcorder as it relates to performance.

DG/UX TCP/IP does not ship with the file /etc/svcorder. This file is generally not required, but in some cases this file will improve performance of utilities that use the gethostbyname library function.

For example, if the AViiON you are telnet'ing to does not maintain a /etc/hosts file, and does not use yp, and does not run DNS (named), /etc/svcorder is important. When you telnet to a AViiON as mentioned above, the connect message appears immediately, but the login: prompt cliears about 20 seconds later. This is because telnetd calls a gethostbyname() to translate the calling hosts internet address into a hostname. Since /etc/svcorder does not exist, /etc/hosts, yp, and DNS are all queried by gethostbyname(). DNS in particular will not time out for (roughly) 20 seconds, then returning control to telnetd, which will then send the login: prompt.

If you edit /etc/svcorder to contain the single word, ehosts, then /etc/hosts will be the only file searched by gethostbyname, improving the time in which telnetd will display the login: prompt to the telnet client.

The 3 entries allowed in the /etc/svcorder, separated by commas are:

ehosts, yp, res.

See the DG/UX svcorder man page for more information.

Gethostbyname((3N), gethostbyaddr(3N), and resolver(3) all consult /etc/svcorder.

DG/UX TCP/IP

DG/UX OPERA	TING SYSTEM
STR ANSWER REPORT	
for DG/UX BASE SYSTEM FOR AVIION	• STR:NASC00006464
AS OF 08-22-90	ORIG-ID: Q063833 REV: 4.30
• STR:WEBO000036381 ORIG-ID: TGRAF.2 REV: 4.30	PROBLEM SUMMARY: Cu will auto dial but NOT auto login.
PROBLEM SUMMARY: ioctl (fd,tcsbrk,0) does not send a break out a duart port on an AV300. ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX.	ANSWER SUMMARY: The cu command is not intended to auto-login to the remote system. The user name and password that are supplied when setting up the system are used by uucp to auto-login.
• STR:NASC000006589 ORIG-ID: Q81990 REV: 4.30 PROBLEM SUMMARY: Application program which outputs directly to parallel printer no longer functions properly after upgrading to DG/UX revision 4.30. This application works fine under 4.22 DG/UX. ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX. In the meantime, patch 4.30.00.15 has been made available to resolve this problem.	• STR:UKSC000040974 ORIG-ID: DG/UX - CORE REV: 4.22 PROBLEM SUMMARY: Panic occurs when the customer runs a program which traps and dumps core in a directory which con- tains a file named "core" if the file is a symbolic link. ANSWER SUMMARY: This problem has been resolved in DG/UX 4.30. In DG/UX Release 4.30, if a core file already exists, you just get an error message about the segmentation fault and no mention of core was dumped.
• STR:NASC000006575 ORIG-ID: Q85030 REV: 4.30 PROBLEM SUMMARY: Printer is disabled if it runs out of paper. ANSWER SUMMARY: When a printer runs out of paper, it sends out a sig- nal that says it is, in effect, offline. This problem is the same as the STR NASC-6462, also submitted by you, which states that printers become disabled when a printer is taken offline. We are therefore closing this STR since the problem will be tracked under NASC- 6462.	 STR:UKSC000040889 ORIG-ID: DG/UX - SYSAD REV: 4.22 PROBLEM SUMMARY: Customer attempting to configure a second printer on a CS 210 finds that sysadm will not allow /dev/null to be entered as the device for the second printer as it is the device for the first printer. ANSWER SUMMARY: This enhancement request will be implemented in the DG/UX Release 4.40 sysadm. At that time, you will be able to use /dev/null as the device for multiple printers.
• STR:NASC000006472 ORIG-ID: Q66806 REV: 4.30 PROBLEM SUMMARY: Error 6936 momory error and error 9637 buss error on attempt to RLOGIN to AV6220 after reving up to 4.30. ANSWER SUMMARY: As agreed upon in our telephone conversation the STR is being closed since you are no longer ex- periencing the problem since replacing the memory board.	 STR:NASC000006454 ORIG-ID: Q076313 REV: 4.22 PROBLEM SUMMARY: Serial printers stop printing. Lpstat -t states that there are jobs to be printed but no printers are print- ing. Killing the last Ipsched executed sometimes frees the printers but not always. ANSWER SUMMARY: This problem has been corrected in DG/UX Release 4.30. The problem was in Ipsched which caused all printers to hang when one printer got hung. Under DG/UX 4.21 and DG/UX 4.22, the problem can

DG/UX OPERATING SYSTEM		
be alleviated with patch dgux_4.21.00.32 which has already been supplied to you.	ANSWER SUMMARY: This problem was corrected at your site by the in- stallation of revision 4.30 of DG/UX.	
• STR:NASC000006411 ORIG-ID: E59003 REV: 4.22 PROBLEM SUMMARY:	STR:NASC000006221 ORIG-ID: Q049454	
DGUX Panic 2000075 ANSWER SUMMARY:	PROBLEM SUMMARY: Cpio will not allow multi volume backups when	
The analysis of your dump showed a problem in the terminal services subsystem of the DG/UX kernel. This problem has been resolved in DG/UX Release	QIC-150 tapes are used. When the backup only re- quires a single tape it completes without error. ANSWER SUMMARY:	
4.30. We understand that you are no longer experiencing the problem since installing this revision.	We are closing this STR as per our phone conver- sation. After several attempts, this problem was un- reproducible. It the problem persists, please submit a	
• STR:NASC000006270 ORIG-ID: Q58000 REV: 4.22	new STR with the Qic-150 tapes. Attempts to reproduce the problem were made under both DG/UX 4.22 and DG/UX 4.30.	
PROBLEM SUMMARY: Unable to set up modem for uugetty dial-in AND dial-out. Must reset modem in between dial-in and dial-out.	• STR:NASC000006216 ORIG-ID: Q55980 REV: 4.22	
ANSWER SUMMARY: DG/UX 4.30 fixes several problems with duarts. To use a line for both dial-in and dial-out on 4.30, we sug- gest that you use the "-r" switch on uugetty, the "M"	PROBLEM SUMMARY: Panic 2000075 has occurred five times on our sys- tem. Have not noticed any consistent set of cir- cumstances around which this happens.	
option in /etc/uucp/Devices (second field of entries), and specify a modem definition (like M1200) in both the Devices file and the Systems file. This modem definition should also be given as an argument to uugetty.	ANSWER SUMMARY: We are closing this STR as we discussed in our phone conversation. After upreving to DG/UX 4.30 and replacing the memory board you are no longer experiencing the problem.	
• STR:NASC000006225 ORIG-ID: Q056265 REV: 4.22	STR:NASC000006216 ORIG-ID: Q55980 REV: 4.22	
PROBLEM SUMMARY: When a user logs on/off the async (tty01) port of the AV/300 all processes that are sons of "X" are killed. We also see this problem whenever a remote system	PROBLEM SUMMARY: Frequent filesystem 'corruption' from file system made with "mkfs -i".	
using uucp connects to the AV/300. ANSWER SUMMARY:	ANSWER SUMMARY: We are closing this STR as we discussed in our	
This problem was corrected at your site by the in- stallation of revision 4.30 of DG/UX.	phone conversation. After upreving to DG/UX 4.30 and replacing the memory board you are no longer experiencing the problem.	
• STR:NASC000006224 ORIG-ID: Q056264 REV: 4.22	STR:NASC000006179 ORIG-ID: Q53186 REV: 4.22	
PROBLEM SUMMARY: The sounding of the "bell: on the AV300 will cause any modem connected to the async (tty01) port to disconnect.	PROBLEM SUMMARY: There is a discrepancy between the on-line man pages, the hardcopy man pages, and the sys/errno.h file. The problem is with the error constant ENOLOCK and the man pages for write(2).	

DG/UX OPERATING SYSTEM		
ANSWER SUMMARY: This discrepancy was caused by a typographical error in the write(2) man page. The online version of this man page will be corrected in DG/UX 4.31 and the corrected hardcopy version will be available in the DG/UX 4.40 Release.	• STR:NASC000006033 ORIG-ID: Q48172 REV: 4.22 PROBLEM SUMMARY: We are experiencing a problem when we do a "who -u", in that occasionally the comments returned are incorrect.	
• STR:NASC000006146 ORIG-ID: Q052782 REV: 4.22	ANSWER SUMMARY: This problem will be fixed in DG/UX Release 4.40.	
PROBLEM SUMMARY: Can NOT get 'C' shell script to execute from initial csh login.	STR:NASC00006023 ORIG-ID: Q46077 REV: 4.22	
ANSWER SUMMARY: The shell environmental variable specifies the file in which the file resides, it does not set the default shell that script files will use. Therefore the script with only a # on the first line was run by sh, not csh. Since sh does not understand the foreach statement, the er- rors that you got were correct. Setting the variable cshscript makes scripts starting with # default to csh.	PROBLEM SUMMARY: While the system was up and running, the root file system became sealed and the system had to be brought down with the hot key sequence. ANSWER SUMMARY:	
	This STR is being closed with the customer's con- sent. The problem has not been duplicated in over a month to send in new materials and the customer has upgraded to DG/UX 4.30. If this problem reoccurs under DG/UX 4.30, please apply the isolation patch,	
• STR:NASC000006095 ORIG-ID: 061190-3 REI REV: 4.22	take a dump of this problem and resubmit this STR.	
PROBLEM SUMMARY: VME 16/32 bit transfer problem.	STR:NASC000005955 ORIG-ID: Q42501 REV: 4.22	
ANSWER SUMMARY: This problem is actually caused by a hardware restriction. The VME hardware is unable to restructure a 32 bit VME bus request into two 16 bit VME bus re-	PROBLEM SUMMARY: Getting "Alarm Call" error when shutting down sys- tem.	
e STR:NASC00006067 ORIG-ID: Q50058 REV: 4.22	ANSWER SUMMARY: We are closing this STR with your approval, as the problem your STR describes is no longer occuring at your site.	
PROBLEM SUMMARY: Since rev'ing up to rev 4.22 all printer hang at once, Ipsched can not be killed system has to be brought down and back up to clear the problem up.	STR:NASC000005953 ORIG-ID: Q25647 REV: 4.22 PROBLEM SUMMARY:	
ANSWER SUMMARY: As we discussed in our telephone conversation, since the dump tape submitted with this STR was not readable we are closing this STR with your approval. Please feel free to submit another STR should this	The "Installing and Managing the DG/UX System" manual does not state that cron should not be run- ning when cleaning the log file as instructed on page B-13. Otherwise, cron will stop logging to the log file. See STR NASC-5953.	
problem occur in the future.	ANSWER SUMMARY: This note about cron will be documented in the DG/UX 4.40 Release of the "Installing and Managing the DG/UX System" manual.	

DG/UX OPERATING SYSTEM

• STR:NASC000005953 ORIG-ID: Q25647 REV: 4.22

PROBLEM SUMMARY:

Problem using "tail -100 /usr/lib/cron/log > /tmp/log; mv /tmp/log /usr/lib/cron/log". If this statement is used to clean out the log file, cron will stop logging.

ANSWER SUMMARY:

Cleaning out the log file as instructed on page B-13 of the "Installing and Managing the DG/UX System" manual should not be performed when cron jobs are running. Because this information is ommitted from the documentation, NASC-5953-1 has been opened on your behalf to correct this documentation error.

• STR:NASC000005952 ORIG-ID: Q036857-00	REV:	4.22

PROBLEM SUMMARY:

The lp scheduler reports "can't create new output queue" error when trying to queue jobs to the printer.

ANSWER SUMMARY:

This problem is due to a timing issue between lpsched and lp trying to obtain and release locks on the /usr/spool/lp/outputq file. This problem will be corrected in DG/UX 4.31 and a patch, DGUX_4.30.00.03, has been provided to you that has corrected the problem at your site.

• STR:NASC000005903		
ORIG-ID: Q040118	REV:	4.22

PROBLEM SUMMARY:

Intro in man pages is not correct: 1) 'man intro' brings up two intro(1)'s, 2) intro says list of commands will follow and they do not, and 3) if PAGER is set to more, and 'man intro' is executed, 'q' or'Q' will not leave man.

ANSWER SUMMARY:

1) This problem has been fixed in DG/UX Release 4.30. 2) With the information given, we cannot find the phrase to which you are referring to as there are nine intro pages. Please resubmit with more details. 3) When "man intro" is entered, nine intro page files are cat'd out. By performing a 'q' or 'Q', MORE skips to the next file. This is appropriate behavior for more. • STR:NASC000005856 ORIG-ID: BH-900518 REV: 4.22

PROBLEM SUMMARY:

Terminals are printing spurious characters. At this time, they "lock up" but can be freed up via an "un-lock" key sequence.

ANSWER SUMMARY:

We are closing this STR as we discussed in our phone conversation. This problem is fixed in 4.30 DG/UX. If you should experience this problem again, please submit a new STR.

• STR:GER 000014669 ORIG-ID: SC00141 REV: 4.22

PROBLEM SUMMARY:

When dumping the contents of a directory to a 2GB SCSI MAYTAG tapedrive using the "tar" command, the tar will fail with "tar : tape write error : I/O error" on a file having more than 300 tape blocks.

ANSWER SUMMARY:

The DGUX 4.22 release notice states that it is necessary to enter the SCSI devices in the system configuration file in a specific order. This order was not followed, resulting in the problems with the SCSI tapes.

• STR:NASC000006040 ORIG-ID: Q47543 REV: 4.21

PROBLEM SUMMARY:

Request for enhancement to add an alternate vt100 terminal definition which would support all 15 function keys, for terminals that can emulate vt100s with 15 function keys to the standard termcap file.

ANSWER SUMMARY:

This enhancement will be implemented in Revision 4.40 of DG/UX. A new terminal definition "vt100-fk" (VT100 with additional Function Keys) will be added.

• STR:NASC000005569 ORIG-ID: BH-90418 REV: 4.21

PROBLEM SUMMARY:

getch function call from the CURSES library occasionally erroneously returns "-1" and an errno = 0. Curses is set up to work in the unbuffered mode. Thus, the getch function call should only return when a character has been entered.

DG/UX OPERATING SYSTEM		
ANSWER SUMMARY: Upon detailed examination of the problem your STR reports we regret to inform you that we are un- able to determine the cause of this problem with the supplied information and materials. Please feel free to submit another STR once you have gathered the re- quired information and materials listed on the at- tached page.	• STR:WEBO000036345 ORIG-ID: NOT SUPPLIED REV: 4.20 PROBLEM SUMMARY: Parallel printer, while in the middle of a large prin- tout, begins printing garbage. All subsequent prin- touts sent to the parallel printer result in garbage (a few random characters) being printed.	
STR:NASC000004892 ORIG-ID: REAL-022290 REV: 4.21 PROBLEM SUMMARY: C program resulting in "BUS ERROR". ANSWER SUMMARY: As you instructed us to do we are closing this STR since this is no longer a problem at your site.	ANSWER SUMMARY: We believe that this problem has been resolved by a combination of DG/UX 4.22 (or a higher revision) and hardware ECO number DC 35. If these do not solve your problem, please resubmit this STR with as much detail as possible about the printer type, cable pinouts, Ip model file being used, and a dump taken before, rather than after, a system reset.	
STR:JAPN000000403 ORIG-ID: NDG 2261 REV: 4.21 PROBLEM SUMMARY: Join command causes segmentation fault if non- existing field is specified to j option. ANSWER SUMMARY: This problem is fixed DG/UX Release 4.40.	STR:WEBO000036276 ORIG-ID: LL.POLL.STR.1 REV: 4.20 PROBLEM SUMMARY: The poll(2) system call does not work as docu- mented. ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX. STR:WEBO000036226	
STR:AUSC000005361 ORIG-ID: REV: 4.21 PROBLEM SUMMARY: PANIC 2000010 ANSWER SUMMARY: This problem will be resolved in revision 4.30 of DG/UX.	ORIG-ID: REV: 4.20 PROBLEM SUMMARY: Declaration of link() system call is incorrect in _int_unistd.h. ANSWER SUMMARY: This problem will be fixed in the 4.30 revision of DG/UX	
STR:WEBO000036365 ORIG-ID: TEAM 294 REV: 4.20 PROBLEM SUMMARY: XTERM does not support VT100 application keypad mode. ANSWER SUMMARY: The problem you reported is fixed in DG/UX X Win- dows for AViiON Systems, revision 4.30.	 STR:WEBO000036219 ORIG-ID: SNA3270-03239 REV: 4.20 PROBLEM SUMMARY: CURSES does not work on a D412/D462 in wide mode. ANSWER SUMMARY: This problem is resolved in revisions 4.22 and later of DG/UX. Patch 4.21.00.28 is also available for revisions 4.20 and 4.21 of DG/UX. Note that these fixes require the user to set the TERM environment variable to "d412-w" or "d462-w" instead of "vt100-w". 	

DG/UX OPERATING SYSTEM		
STR:WEBO000036218 ORIG-ID: NOT SUPPLIED REV: 4.20	• STR:WEBO000036184 ORIG-ID: REV: 4.20	
PROBLEM SUMMARY: The STREAMS clone driver does not properly handle the return of OPENFAIL by a clonable driver. This causes the open system call to erroneously return 0 status. Eventually this may cause a system panic in the device driver.	PROBLEM SUMMARY: The sigrelse system call is not reachable in the m88kbcs target environment. ANSWER SUMMARY: This was an omission. It has been corrected in 4.30.	
ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30	• STR:WEBO000036152 ORIG-ID: 3 REV: 4.20	
• STR:WEBO000036217 ORIG-ID: NOT SUPPLIED REV: 4.20 PROBLEM SUMMARY: When the demon process for a 1 to N STREAMS multiplexor (where N is 2 or more) is killed, the DG/UX panics with code 42000004 in SFM_SEND_IOCT1_MESSAGE().	PROBLEM SUMMARY: When executing an application over NFS that uses the libnsl_s.a library, the application often hangs in the t_open() call at the _t_do_ioctl() statemnt. The ioctl to do is Get Info Request. ANSWER SUMMARY: This problem is not reproducible by DG or by the	
ANSWER SUMMARY: This problem has been fixed in DG/UX Release 4.30.	STR:WEBO000036151 ORIG-ID: 3 REV: 4.20	
• STR:WEBO000036191 ORIG-ID: RJE001 REV: 4.20 PROBLEM SUMMARY: printf() causes process to crash if dereferencing a NULL pointer. ANSWER SUMMARY:	PROBLEM SUMMARY: Closing a downward mux with no downward i_links panics the kernel at sfm_detach_driver_or_module + 50 ANSWER SUMMARY: This problem turned out to be due to a bug in the user's application.	
Derefencing a NULL pointer on an AViiON system will give you a segmentation fault, since location 0 is not in the address space. The DG/UX 4.20 release notice specifies how to make it part of the address space so that the program will give you the result you desire.	STR:WEBO000036137 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: In libnsl s.a, t_rcv improperly sets the T_MORE	
• STR:WEBO000036185 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: While using cu, if you type ~% and then hit return,	flag when requesting 0 length data and receiving 0 length data ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30	
cu hangs and then displays "hangup", leaving the terminal in raw mode. The user expects to see the \sim (continue) message instead.	• STR:WEBO000036136 ORIG-ID: REV: 4.20	
ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX.	PROBLEM SUMMARY: In libnsl_s.a, t_rcvudata incorrectly sets the T_MORE flag when 0 length data is expected and 0 length data is received.	
	ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX.	

DG/UX OPERA	TING SYSTEM
STR:WEBO000036135 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: man page for "source" is missing. ANSWER SUMMARY: The documentation for the "source" command is found in the "csh" manual page. The "source" com- mand is part of the csh, or what's known as a built-in command.	 STR:WEBO000036108 ORIG-ID: 1 REV: 4.20 PROBLEM SUMMARY: DG/UX 4.20 does not support STREAMS drivers (multiplexors) obtaining controlling tty status and ac- cepting indirection from /dev/tty ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX. STR:WEBO000036060 ORIG-ID: SNA3270-01099 REV: 4.20
 STR:WEBO000036134 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: The macros lobyte, hibyte, loword and hiword are not defined in /usr/include/sys/param.h. They are defined in this file in AT&T Unix SVR3.2.2 however. ANSWER SUMMARY: The macros lobyte, hibyte, loword, and hiword will be defined in /usr/include/sys/param.h in DG/UX 4.30. STR:WEBO000036133 	PROBLEM SUMMARY: Enhancement request: Allow curses to display characters in the lower right hand corner on terminals which do not have the curses insert character charac- teristic. ANSWER SUMMARY: What you request is not technically feasible. Un- less the intelligent terminal feature of "insert charac- ter" is available, there is no visually acceptable way to draw a character in the lower right corner without scrolling the terminal screen. Therefore we cannot im- plement your enhancement request.
ORIG-ID: REV: 4.20 PROBLEM SUMMARY: Doing a "chmod a +1 file" does not behave as documented. Documentation says that this (Mandatory Locking) will prevent other users (same uid or different) from updating this file. It does not. ANSWER SUMMARY: The man page has been updated to more clearly state that in addition to having the +1 bit set by the chmod command, applications requiring file locks must also call fcntl(2). The +1 bit enables the file to be locked, and the fcntl(2) call actually performs the locking.	 STR:UKSC000041045 ORIG-ID: AV300 UK KEY REV: 4.20 PROBLEM SUMMARY: AViiON 300 running DG/UX 4.20 with UK keyboard. Mapping of some keys does not correspond with what is shown on the keys. ANSWER SUMMARY: It is probable that you have forgotten to modify your terminal characteristics to support 8-bit charac- ters by entering either "stty pass8" (for /bin/csh) or "stty -istrip" (for /bin/sh). When the instructions in the international section of the DG/UX release notice are followed, this problem is not reproducible.
• STR:WEBO000036109 ORIG-ID: 1 REV: 4.20 PROBLEM SUMMARY: DG/UX 4.20 does not close multiplexing streams drivers properly, regardless of whether or not implicit close() calls are made. ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30	 STR:UKSC000041039 ORIG-ID: AV300 UK KEY REV: 4.20 PROBLEM SUMMARY: AV300 running DG/UX 4.20 with UK keyboard. Some keys are not mapped to the symbols shown on the key faces. ANSWER SUMMARY: It is probable that you have forgotten to modify your terminal characteristics to support 8-bit charac- ters by entering either "stty pass8" (for /bin/csh) or

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"stty -istrip" (for /bin/sh). When the instructions in the international support section of the DG/UX release notice are followed, the problem is not reproducible.	STR:UKSC000039125 ORIG-ID: SIGALRM REV: 4.20
• STR:UKSC000039933 ORIG-ID: /USR/INCLUDE/ REV: 4.20 PROBLEM SUMMARY: The header file /usr/include/math.h contains a for- ward declaration for atof which does not give the ar- gument type as being const. This conflicts with /usr/include/stdlib.h and causes warning messages to be generated. ANSWER SUMMARY: The /usr/include/math.h declaration for atof has been changed to include the const type in the 4.30	PROBLEM SUMMARY: Program which issues a setitimer() function call to control the time before a SIGALRM is generated, fre- quently hangs. ANSWER SUMMARY: This hang was due to the program not being designed for the speed of the system. The addition of sighold() and sigpause() to the program will work around the timing problems being experienced. • STR:UKSC000039083
release of DG/UX. • STR:UKSC000039674 ORIG-ID: DG/UX - LOGIN REV: 4.20 PROBLEM SUMMARY: A user misstypes the password when logging onto an AViiON 6000, but reenters it correctly. He is given a shell but the value of TERM is not as set in the entry in /etc/inittab corresponding to that terminal. ANSWER SUMMARY: This problem is fixed in release 4.30 of DG/UX.	ORIG-ID: DG/UX ,/ETC/T REV: 4.20 PROBLEM SUMMARY: Customer has modified /etc/TIMEZONE by com- menting out the line, "TZ = EST5DST" and adding the line, "TZ = BST-1". This causes problems with init which makes the system hang. ANSWER SUMMARY: It is the existence of two TZ variables in this file that causes init(1M) to fail. init(1M) does not use this program as a script, thereby ignoring commented lines, but rather searches the file for the TZ variable. By finding more than one, init behaves as described. The TIMEZONE variable should be changed via sysadm which would not allow the corruption of
STR:UKSC000039505 ORIG-ID: AV6000 HANG REV: 4.20 PROBLEM SUMMARY: AV6000 terminal lines have hung on two oc- casions. ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX.	 /etc/TIMEZONE file. STR:UKSC000039002 ORIG-ID: DG/UX - UK KE REV: 4.20 PROBLEM SUMMARY: Keyboard mappings under DG/UX 4.20 with UK keyboard are not correct. ANSWER SUMMARY:
 STR:UKSC000039307 ORIG-ID: DG/UX- PS & S REV: 4.20 PROBLEM SUMMARY: When two users are logged onto a system as root and one user is using sysadm, if the other user runs ps -el the output may be corrupted with output from sysadm. ANSWER SUMMARY: The behavior you are seeing is not corruption, but rather the result of sysadm passing its menu as a com- mand line argument. Since ps has a large buffer for command line displays, part of the sysadm menu ap- pears in the the ps display. 	The problems you've experienced are not reproducible when the proper steps have been taken to set a system up to support the UK keyboard. You have most likely missed the step at the SCM level which changes the keyboard setting from US to UK. This will resolve most of the issues. Please refer to the DG/UX 4.20 release notice, section 5.1.4, for the rest of the setup details.

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STR:UKSC000038000 ORIG-ID: TAR ERROR REV: 4.20	STR:UKSC000037499 ORIG-ID: INFORMIX UNDE REV: 4.20
PROBLEM SUMMARY: tar gives the error "tar:cannot change back?" when a particular directory structure is backed up. ANSWER SUMMARY: This problem with archiving directories relative to the root which contain sub-directories will be fixed in DG/UX revision 4.30.	PROBLEM SUMMARY: A customer benchmark is hitting a DG/UX process limit of 130 concurrent processes, even though NPROC is set at 2048 and the number of VPs is at least 288. ANSWER SUMMARY: No such problems have been seen on revision 4.20 or later revisions of DG/UX. If you are still experienc-
• STR:UKSC000037739 ORIG-ID: PANIC 4000110 REV: 4.20	ing this problem, please resubmit this trouble report along with a small program (if possible) which dupli- cates the problem.
PROBLEM SUMMARY: Panic 4000110 on an AV310 after the processor board had been replaced. ANSWER SUMMARY: An investigation of the memory dump did not turn up anything which pointed to a software problem. It is our belief that this system is experiencing hardware problems. If this problem continues to occur and no hardware problems can be found, please resubmit this STR along with detailed information about the configuration, cables, problems seen, and steps needed to reproduce.	STR:UKSC000036331 ORIG-ID: SCREEN I/O REV: 4.20 PROBLEM SUMMARY: Program produces corrupt screens when run on
	an AViiON 5100, but not on a 386. ANSWER SUMMARY: This behavior was the result of a misunderstand- ing of how files inherit characteristics. A minor change in the design of the program cleared up the problem.
STR:UKSC000037550 ORIG-ID: DIRECTORY RES REV: 4.20 PROBLEM SUMMARY: Tar fails to restore a directory structure from tape if the parent directory no longer exists. ANSWER SUMMARY: This problem will be resolved in DG/UX Revision 4.30.	 STR:SWE 000000268 ORIG-ID: GROUPID IN 4. REV: 4.20 PROBLEM SUMMARY: The DG/UX file system doesn't handle group ids correctly on files created in directories having the groupid bit set. ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX.
STR:UKSC000037543 ORIG-ID: 4.20 SCHEDULE REV: 4.20 PROBLEM SUMMARY: DG/UX 4.20 Scheduler does not appear to function correctly. ANSWER SUMMARY: Modifications to the medium term scheduler have been made to the DG/UX 4.30 release. These modifications consist of the medium term scheduler more closely watching processes set loose in the short term scheduler that do not run and elevating the interactive level of such processes such that they too receive adequate cpu time.	 STR:SWE 00000249 ORIG-ID: PANIC 200075 REV: 4.20 PROBLEM SUMMARY: When running the software (see dump tape) the Workstation panic with code 200075. The program is running in user space. ANSWER SUMMARY: From investigating the dump provided, the code path which created this panic has been fixed in DG/UX 4.30.

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• STR:SWE 000000247 ORIG-ID: CURSES REV: 4.20

PROBLEM SUMMARY:

When running the program cur.c you get a "segmentation fault". This is only when you have an 8-bit character in your output eg. addstr(str) where str is a pointer to a string including an 8-bit character.

ANSWER SUMMARY:

In revision 4.30 of DG/UX, the program runs to completion without a segmentation fault. However, you will not be able to display the expected character without it being included in your current character class (the default character class does not include 8-bit characters).

• STR:NASC00006445		
ORIG-ID: Q70047	REV:	4.20

PROBLEM SUMMARY:

Database conversion program hangs frequently. The process will start up and after some period of time stops getting CPU time. It does not terminate with any error from the application or operating system.

ANSWER SUMMARY:

Per our conversation, you have increased main memory by 8 Megabytes and increased your SHMMAX kernel parameter. Since making these changes, we understand you are no longer experiencing a problem with database conversions hanging, even though you have increased the number of compiles done at one time from 6 to more than 20.

• STR:NASC00006197		
ORIG-ID: Q43806	REV:	4.20

PROBLEM SUMMARY:

Changing the tunable system parameter 'sdeslim', to a number larger than the default of 64, still will not allow you to open more than 64 files in a single process.

ANSWER SUMMARY:

This limitation is imposed by the System V.3 Standard I/O (stdio) implementation. Revision 4.40 of DG/UX will support dynamic allocation of the FILE structures which will allow this value to increase or decrease as needed. • STR:NASC000006176 ORIG-ID: DG/UX-4 REV: 4.20

PROBLEM SUMMARY:

C program receives unexpected error, EXNIO on write to disk.

ANSWER SUMMARY:

Additional information generated on the system on which the problem occurs is necessary to further investigate this problem. Since the environment on this system has changed, the problem is no longer occurring. If this problem should recur, please resubmit this trouble report.

• STR:NASC000006152 ORIG-ID: Q053716 REV: 4.20

PROBLEM SUMMARY:

Panic 1000037 "Unrecoverable memory error" occurs after the last device in entered into the starter system off the patch kit 20 tape. The machine we are booting is any one of 4 16mh AV/300's.

ANSWER SUMMARY:

We cannot determine the cause of the problem from the information supplied. We are closing this STR with your permission since you have not had an opportunity to provide the system dump necessary for the investigation. We will be glad to investigate this problem for you if materials are submitted with a new STR.

• STR:NASC000006116 ORIG-ID: KT-DGUX-2 REV: 4.20

PROBLEM SUMMARY:

The sc_write_line() function's output does not go to /dev/console (this is a kernel routine used to display ascii text by the kernel and device drivers).

ANSWER SUMMARY:

The sc_write_line function is working as designed. This function should not be used for displaying device driver messages while the system is running. In this case, the function sc_send_console_message should be used instead.

• STR:NASC000006026 ORIG-ID: Q43282 REV: 4.20

PROBLEM SUMMARY:

Request for dgux, to have the print scheduler read a line before sending data to it, so that data is not lost if the printer is offline.

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ANSWER SUMMARY: This request for enhancement is not a technically feasible feature to implement. Lpsched(1M) does not monitor the printer line and therefore, once the ^s is sent by the printer going offline, there is nothing for	SYSADM LSRELEASE cannot report that this product has been loaded. You should submit a request for en- hancement STR against Greenhills F77 and others to correct this.	
Ipsched to detect on the line.	STR:NASC000005966 ORIG-ID: E058769 REV: 4.20	
• STR:NASC000006017 ORIG-ID: 900503 REV: 4.20	PROBLEM SUMMARY: Oracle processes go 'defunct' and start eating up	
PROBLEM SUMMARY: Problem with scheduling job priority through "nice" value in UNIX. ANSWER SUMMARY: Modifications to the medium term scheduler have been made to the DG/UX 4.30 release. These	the cpu time. ANSWER SUMMARY: Since your problem no longer occurs after uprev- ing several different products, we are closing this STR as per our agreement.	
modifications consist of the medium term scheduler more closely watching processes set loose in the short term scheduler that do not run and elevating the interactive level of such processes such that they too receive adequate cpu time.	 STR:NASC000005960 ORIG-ID: Q014438 REV: 4.20 PROBLEM SUMMARY: Tapes made with cpio on an MV/UX system can not be read on an AViiON 5100. Below are the cpio 	
• STR:NASC000006005 ORIG-ID: Q33804 REV: 4.20	commands used: On MV/UX: echo file cpio -ovcB >/dev/tape On AViiON: cpio -icvuB ANSWER SUMMARY:	
PROBLEM SUMMARY: DG/UX 4.20 AV330 problem when in a signal or in- terrupt handler, the alarm that caused the interrupt does not get blocked. Very intermittent problem program dies with Alarm Clock Error.	This problem will be resolved in DG/UX Release 4.30. Please upgrade to this revision as soon as it be- comes available.	
ANSWER SUMMARY: This is correct behavior of AT&T signals and the default signal functionality of DG/UX which is used in your example program. According to the signal manual page, if a function address is used for action in the signal(signal_number, action) system call, "no additional signals will be blocked when the signal	STR:NASC000005832 ORIG-ID: Q34477 REV: 4.20 PROBLEM SUMMARY:	
	"dump -u" corrupts the /etc/dumpdates file such that you cannot write to the dumpdates file a second time using "dump -u".	
handler is invoked."	ANSWER SUMMARY: This problem has been corrected in DG/UX Release 4.30.	
• STR:NASC000005977 ORIG-ID: Q44142 REV: 4.20		
PROBLEM SUMMARY: When we use SYSADM and go into RELEASEMGMT and attempt to do a LSRELEASE to obtain information about our installed packages not all of the packages are listed. We use Greenhills F77 and others and they are not listed.	 STR:NASC000005823 ORIG-ID: Q027607-00 REV: 4.20 PROBLEM SUMMARY: Terminal lines hang. Attempts to kill processes associated with the lines that have hung result in a total system hang. 	
ANSWER SUMMARY: SYSADM LSRELEASE simply gets information on the loaded software from the usr/options directory of a particular release. If the package itself does not provide a product.name file for this directory, then	ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX.	

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STR:NASC000005822 ORIG-ID: SMC0511 HANG REV: 4.20 PROBLEM SUMMARY: All terminals on VDA-128 ports hung. Master Con-	If the child receives a signal and handles it, it will not terminate unless it chooses so. If a child receives a signal and does not catch and allows itself to be ter- minated, then WIFSIGNALED(stat_val) will be returned to wait and WTERMSIG will tell which signal killed the process
sole still responded. ANSWER SUMMARY: This problem will be resolved in revision 4.31 of DG/UX.	STR:NASC000005765 ORIG-ID: CALTECH-70
• STR:NASC000005817 ORIG-ID: 63579 REV: 4.20	PROBLEM SUMMARY: Inconsistency between the shmat(2) man page and /usr/include/sys/shm.h declarations.
PROBLEM SUMMARY: A core dump results when a character code larger than 127 is displayed to a window using the curses routines.	ANSWER SUMMARY: This problem will be fixed in revision 4.40 of DG/UX. Users can include the man page declaration in their code until this fix is in place.
ANSWER SUMMARY: This problem has been resolved in DG/UX Release 4.30.	STR:NASC000005764 ORIG-ID: CALTECH-69 REV: 4.20
• STR:NASC000005775 ORIG-ID: CALTECH-73 REV: 4.20	PROBLEM SUMMARY: Please include a description of the tdesc section of an executable in the "DG/UX System Programmer's Tools" manual.
PROBLEM SUMMARY: Csh bug. Could destroy some csh scripts. ANSWER SUMMARY: As we discussed, we are closing this STR with your approval, since you are unable to provide an example that will produce this problem at this time.	ANSWER SUMMARY: A brief description was added to the DG/UX Release 4.30 of "DG/UX System Programmer's Tools" manual. The description states what the tdesc section is, what it contains, and how the link editor normally handles this section.
• STR:NASC000005774 ORIG-ID: CALTECH-72 REV: 4.20	• STR:NASC000005763 ORIG-ID: CALTECH-68 REV: 4.20
PROBLEM SUMMARY: The csh will crash.	PROBLEM SUMMARY: The fork() man page refers to the shmop() man page which does not exist.
ANSWER SUMMARY: As we discussed, we are closing this STR with your approval, since you are unable to provide an example that will produce this error at this time.	ANSWER SUMMARY: The reference to shmop(2) has been changed to shmat(2) in the DG/UX 4.30 revision of the fork(2) man page.
• STR:NASC000005772 ORIG-ID: CALTECH-71 REV: 4.20	STR:NASC000005762 ORIG-ID: CALTECH-67 REV: 4.20
PROBLEM SUMMARY: The wait(2) man page is too vague about what value wait(stat_loc) would return if the child is inter- rupted by a signal.	PROBLEM SUMMARY: The nroff(1) man page refers to the directory /usr/lib/term which does not exist.
ANSWER SUMMARY: Given our interpretation of the problem description in this STR, we feel the wait(2) man page is adequate.	ANSWER SUMMARY: The DG/UX 4.30 revision of the nroff(1) man page changes /usr/lib/term to /usr/lib/nterm.

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• STR:NASC000005761 ORIG-ID: CALTECH-66 REV: 4.20 PROBLEM SUMMARY: Inconsistent type declarations for the schndr struc- ture between the a.out(4) man page and the /usr/in- clude/scnhdr.h include file. ANSWER SUMMARY: The inconsistencies in the a.out(4) man page have been corrected in the DG/UX Release 4.30.	 STR:NASC000005757 ORIG-ID: CALTECH-62 REV: 4.20 PROBLEM SUMMARY: The wait(2) man page contains an incomplete sentence. It reads on page 2 in the paragraph following the WUNTRACED paragraph, "In this case, if the value of the argument stat_loc is not , information shall be ". ANSWER SUMMARY: The DG/UX 4.30 revision of the wait(2) man page adds the missing word "NULL" after "if the value of the argument stat_loc is not".
 STR:NASC000005760 ORIG-ID: CALTECH-65 REV: 4.20 PROBLEM SUMMARY: When using the command "od -x file", the output shows the addresses in octal while the data portion is in hexadecimal. This seems inconsistent and makes it difficult to look up addresses. ANSWER SUMMARY: This behavior is consistent with AT&T V.4 od com- mand behavior. We have no plans to make this en- hancement at this time. STR:NASC000005759 ORIG-ID: CALTECH-64 REV: 4.20 PROBLEM SUMMARY: On page 3, the exec() man page refers to the shmop(2) man page which does not exist. ANSWER SUMMARY: The reference to shmop(2) has been changed to shmat(2) in the DG/UX 4.30 revision of the exec() man page. 	 STR:NASC000005694 ORIG-ID: E058715 REV: 4.20 PROBLEM SUMMARY: If a syacload is done to a single existing vdc, all vdcs will hang. ANSWER SUMMARY: The syacload command loads the controller, not the vdcs. The controller then downloads each vdc connected. We do not support individual vdc downloads. This causes each vdc to be reset, and kills any process connected to that line. This load can take several minutes. After the load complete, each line should have a getty running on it, with its associated login prompt. STR:NASC000005664 ORIG-ID: Q018820 REV: 4.20 PROBLEM SUMMARY: When users incorrectly enter their username or password, requiring them to reenter them, the en- vironment variable TERM does not get set to the value
• STR:NASC000005758 ORIG-ID: CALTECH-63 REV: 4.20 PROBLEM SUMMARY: The reloc(4) man page incorrectly defines R_PCR26L as a 16-bit address. It should be 26 bit. ANSWER SUMMARY: R_PCR26L is described as a 26-bit address in the DG/UX 4.30 revision of the reloc(4) online man page. It will also be corrected in the Programmer's Reference Manual in it's next printing after Release 4.30.	specified by "getty" in inittab. ANSWER SUMMARY: This problem has been corrected in DG/UX Release 4.30. • STR:NASC000005653 ORIG-ID: TTY 38 GONE REV: 4.20 PROBLEM SUMMARY: tty-line unavailable - unresponsive to any key strokes. ANSWER SUMMARY: This problem will be resolved in revision 4.31 of DG/UX.

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 STR:NASC000005650 ORIG-ID: E058608 REV: 4.20 PROBLEM SUMMARY: Error - "No line ## in file < filename > " returned by the DBX stop ## command in ghf77 programs that have large include files. ANSWER SUMMARY: This problem in dbx(1) has been fixed in DG/UX Release 4.31. 	ANSWER SUMMARY: To prevent the printing of the banner before a file, the interface file for any printer can be modified to remove the banner code. The printer interface files are created in /usr/spool/lp/interface whenever a printer is added via sysadm lpmgmt. Simply remove the code from the first form feed (echo "\014\c") to the follow- ing form feed, leaving one of the form feeds in the file.
• STR:NASC000005637 ORIG-ID: MIT-425 REV: 4.20	STR:NASC000005581 ORIG-ID: Q010736 REV: 4.20 PROBLEM SUMMARY: VDA/128 lines hang. The hangs have been occur-
PROBLEM SUMMARY: Occasional terminal line hangs observed while using a modem attached to a cluster controller. ANSWER SUMMARY: This problem is fixed in revision 4.30 of DG/UX.	ing more often recently, 3 + times a day. The system must be rebooted to regain use of the VDA/128. ANSWER SUMMARY: We are closing this STR as this problem is no longer occuring at your site. Should this problem occur again in the future please feel free to submit another STR at that time.
• STR:NASC000005616 ORIG-ID: Q17213 REV: 4.20 PROBLEM SUMMARY: System running DG/UX rev 4.20 hung for unknown reason. ANSWER SUMMARY: As we discussed in our telephone conversation we are closing this STR with your approval.	STR:NASC000005580 ORIG-ID: Q018180 REV: 4.20 PROBLEM SUMMARY: System hung. The system was under a normal load running standard applications. We have not added any new software for some time. The VDA/128 lines have been hanging, which then requires a reboot, but that was not the case this time.
STR:NASC000005591 ORIG-ID: Q014647 REV: 4.20 PROBLEM SUMMARY: The linger structure defined on page 319 of UNIX	ANSWER SUMMARY: The problem your STR reports is being corrected by your hardware support organization.
NETWORK PROGRAMMING by W.Richard Stevens is NOT included in /usr/sys/socket.h. ANSWER SUMMARY: Rev 4.20 of TCP/IP treats the linger structure as BSD 4.2 did, as binary, either on or off. Rev 4.30 of	• STR:NASC000005577 ORIG-ID: Q17975 REV: 4.20 PROBLEM SUMMARY: We are receiving error message at the master con- sole "From system: out of paging area space".
TCP/IP will treat the linger structure as BSD 4.3 does, and as your book does. STR:NASC000005588 ORIG-ID: INTERNAL REV: 4.20	ANSWER SUMMARY: The problem your STR describes was caused by an application program error that you have since cor- rected. As you are no longer having this problem we are closing this STR.
PROBLEM SUMMARY: Request ability to inhibit the printing of banner pages when printing documents with lp.	STR:NASC000005553 ORIG-ID: 7512-F-Q01089 REV: 4.20 PROBLEM SUMMARY: Serial lines hang.

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ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX.	ANSWER SUMMARY: Some commands such as ps, vnode and vtop were removed from the DG/UX Releases 4.20 and 4.30, but we will consider including them in future releases of
• STR:NASC000005537 ORIG-ID: Q12804 REV: 4.20	DG/UX.
PROBLEM SUMMARY: We are receiving an error "out of paging space", when we run our System Z application. ANSWER SUMMARY: As we discussed in our telephone conversation the problem your STR reports seems to be caused by the application program not releasing memory when it should. Be advised that DG/UX is operating correct- ly, in that when memory is not avialable for a process, swapping will occur and enough disk space must be present to hold the swap files.	 STR:NASC000005490 ORIG-ID: Q007413 REV: 4.20 PROBLEM SUMMARY: A DG 4558 printer on our AViiON system does not print 8-bit characters. Our Wide Wonder printer does cause the correct characters to be printed. Please provide a "MAPPER" file to remap characters. ANSWER SUMMARY: Since identical configurations allow one of your printers to print 8-bit characters and not the other, it must be assumed that the printer causing the problem is not set up properly. Some suggestions for possible modifications have been sent directly to you based on the information provided with this STR. STR:NASC00005487 ORIG-ID: Q009897 REV: 4.20 PROBLEM SUMMARY: Panic 2000056 occurred when there was very little disk space available. ANSWER SUMMARY: This problem will be corrected in revision 4.40 of DG/UX.
 STR:NASC000005496 ORIG-ID: Q997742 REV: 4.20 PROBLEM SUMMARY: Request for lp scheduler to allow more than one printer queue to be defined for a single printer. ANSWER SUMMARY: The AT&T print spooler (lp and related commands) will change significantly in revision 4.40 of DG/UX. Many new features will be added, including multiple queues per printer. STR:NASC000005493 ORIG-ID: UX-2 REV: 4.20 PROBLEM SUMMARY: Some system-specific commands in the DG/UX Utility crash(1M), are not implemented under 4.20 of DG/UX such as ps, vnode, and vtop. 	 STR:NASC000005486 ORIG-ID: Q009372 REV: 4.20 PROBLEM SUMMARY: When restoring from tape backup, "restore" will hang if space in the filesystem is exhausted. Tar will also hang under these circumstances. ANSWER SUMMARY: As we discussed in our telephone conversation this problem appears to be corrected in revision 4.22 of DG/UX. Please upgrade to this revision as soon as it becomes avialable. STR:NASC000005483 ORIG-ID: E58583 REV: 4.20 PROBLEM SUMMARY: The man page for dump2 should clearly state that NFS mounted file systems are not supported under dump2. Currently it states "file-system is the path-

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name of a special file referring to a device containing the file system".	
ANSWER SUMMARY: This information has been added to the dump2(1M) man page for DG/UX Revision 4.30.	• STR:NASC000005398 ORIG-ID: UX-1 REV: 4.20
	PROBLEM SUMMARY: Mounting logical disks causes files in the mount directory to disappear without warning, files reappear
• STR:NASC000005483 ORIG-ID: E58583 REV: 4.20	when the filesystem is unmounted. I suggest that SYSADM warn users that this may occur.
PROBLEM SUMMARY: sysadm fsdump fails when dumping a remote file system which spans more than one tape with "ERROR: Division by Zero in tape_estimate_time" when second tape is mounted.	ANSWER SUMMARY: This is expected behavior for every implementation of NFS. It is not considered to be a situation where a warning is required. DG does not plan to implement this suggestion.
ANSWER SUMMARY: Using dump2 or sysadm fsdump across a network	
is not supported at this time. In Rev 4.30 of DG/UX an error message will be given if the file system on a given command line is not a local file system.	• STR:NASC000005397 ORIG-ID: Q998320 REV: 4.20
	PROBLEM SUMMARY: Sar output from the -r and -u options, appears to be reported incorrectly.
• STR:NASC000005477 ORIG-ID: 418880 REV: 4.20	ANSWER SUMMARY: Several problems with sar have been fixed in
PROBLEM SUMMARY: The systems activity reporter (sar) output does not include disk activity data. The values are always zero or blank.	DG/UX Release 4.30 including the incorrect output generated by -r and -u.
ANSWER SUMMARY: Starting in revision 4.30 of DG/UX the kernel will return the correct disk activity values so that sar can report the proper information.	STR:NASC000005377 ORIG-ID: CSC-1 REV: 4.20 PROBLEM SUMMARY: The dg_sysinfo system call does not report system free memory accurately.
STR:NASC000005463 ORIG-ID: DG/UX CONSOLE REV: 4.20	ANSWER SUMMARY: The kernel has been modified in revision 4.30 of DG/UX to report the actual number of free memory
PROBLEM SUMMARY: Random VAC lines become "lost" during otherwise normal operation.	frames for sar -r. This is more compatible with System V behavior.
ANSWER SUMMARY: The problem your STR describes is corrected in DGUX revision 4.22 and latter.	• STR:NASC000005321 ORIG-ID: E058508 REV: 4.20
	PROBLEM SUMMARY: Request for Detailed Documentation on the 'sar'
• STR:NASC000005432 ORIG-ID: DB-0404 REV: 4.20	utility. ANSWER SUMMARY:
PROBLEM SUMMARY: The "make" facility does not create or update some libraries.	Detailed information has been added to the sar(1) and sar(1M) man pages in DG/UX revision 4.30. Please upgrade to this revision when it becomes avail-
ANSWER SUMMARY: This problem is corrected in DG/UX Release 4.40.	able.

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• STR:NASC000005320 ORIG-ID: Q996918 REV: 4.20	 STR:NASC000005316 ORIG-ID: Q999249 REV: 4.20
PROBLEM SUMMARY: Request for more detailed documentation on DG's implementation of the 'sar' utility.	PROBLEM SUMMARY: The total block counts returned, when doing a 'ls - s' and 'ls -sl' are different.
ANSWER SUMMARY: Detailed documentation has been added to the sar(1) and sar(1M) man pages in DG/UX revision 4.30.	ANSWER SUMMARY: This is a bug in the way Is gets file information via stat(2). In DG/UX Release 4.40, this will be corrected as "Is" will get file information via dg stat(2).
• STR:NASC000005319 ORIG-ID: Q996276 REV: 4.20	
PROBLEM SUMMARY: The "sar -r" command does not report accurate in-	• STR:NASC000005309 ORIG-ID: JE01 REV: 4.20
formation. ANSWER SUMMARY: This problem will be resolved in revision 4.30 of DG/UX.	PROBLEM SUMMARY: All terminals attached to VAC16 hang anywhere from initialization to approximately 2 hours after boot with the following message being displayed to master console: "From System: IAC at device code 0140 panic, code 05".
• STR:NASC000005319 ORIG-ID: Q996276 REV: 4.20 PROBLEM SUMMARY: Multiple inconsistencies found in the output reported by 'sar'. (1) sar -q reports incorrect informa-	ANSWER SUMMARY: The problem reported in your STR was caused by your D216+ terminal hardware. This problem was corrected when your hardware support organization upgraded the terminal firmware from revision 00 to revision 01, using DG PROM part number 100-8763-
tion. (2) sar -a columns igen/s and namei/s seem mis- leading. (3) sar -v shows equal numbers of inode and file table entries.	01.
ANSWER SUMMARY: In response to the problems reported: The first is fixed in revision 4.30 of DG/UX. The second is ex- plained by DG's use of inode caches and the effects of NFS. The third is due to allocation of inodes on an as-needed basis by DG/UX. Thus the number of in- odes always equals the table size.	STR:NASC000005303 ORIG-ID: 423343.AX3 REV: 4.20 PROBLEM SUMMARY: Keystrokes performed on a console that is current- ly displaying data sometimes get echoed back to the terminal. Problem reproduced on master console and on a console attached to a VDA/128 line.
• STR:NASC000005318 ORIG-ID: E058507 REV: 4.20	ANSWER SUMMARY: The behavior you are seeing is due to a combina- tion of UNIX I/O handling and multiple-character es- cape sequences in VT100 emulation mode. It is
PROBLEM SUMMARY: Request for detailed documentation on the 'Sar' command utility.	recommended that you use curses to map multi- character escape sequences into single characters on input to keep this behavior from affecting your ap- plication.
ANSWER SUMMARY: Detailed information has been added to the sar(1) and sar(1M) man pages in DG/UX revision 4.30. Please upgrade to this revision when it becomes avail-	STR:NASC000005302 ORIG-ID: 423343.AX2 REV: 4.20
able.	PROBLEM SUMMARY: Serial printers attached to lines on the VDA/128 controller will intermittently hang. All attempts to clear

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the hang are unsuccessful. Patch 27 for DG/UX 4.21 is installed. ANSWER SUMMARY: As we discussed in our telephone conversation that since this STR is a duplicate of STR NASC-5069	/etc/TIMEZONE.csh does not get edited along with the file /etc/TIMEZONE when using "sysadm datetime". ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30.
STR:NASC000005301 ORIG-ID: 423343.AX1 REV: 4.20 PROBLEM SUMMARY: An AViiON 5100 with 22 serial printers exhibits the following symptom: when a printer becomes "not ready", all non-active printer requests aren't serviced.	STR:NASC000005239 ORIG-ID: Q997120 REV: 4.20 PROBLEM SUMMARY: System console hangs, if a CTRL-S is issued on the system console and The "sh" attached to the console is killed. ANSWER SUMMARY:
ANSWER SUMMARY: This problem will be resolved in revision 4.30 of DG/UX.	This problem has been fixed in DG/UX 4.40. STR:NASC000005223 ORIG-ID: DT031690 REV: 4.20
• STR:NASC000005274 ORIG-ID: Q997682 REV: 4.20 PROBLEM SUMMARY: User terminal hangs after exiting an application or issuing an Ip command. When this occurs the master console also hangs during next login attempt. ANSWER SUMMARY: This problem has been addressed in revision 4.30 of DG/UX. A related problem still exists in that revision, and should be tracked as STR NASC-6034.	PROBLEM SUMMARY: The default baud rate cannot be changed for a non- getty device. If a user issues "stty baudrate > /dev/tty", this setting does not take. The user only gets the default setting. ANSWER SUMMARY: The behavior described in this STR is correct and consistent with AT&T V.3 and V.4 UNIX. The standard way to set the desired baud rate for a printer is to modify the stty line in the /usr/spool/lp/model file for that printer. In the interests of design and com- patibility, this enhancement request will not be imple- mented.
• STR:NASC000005264 ORIG-ID: DMSDISK02 REV: 4.20 PROBLEM SUMMARY: Random disk I/O performance on an AV3XX sys- tem running DG/UX 4.20 is three plus times slower than a comparable Sun SPARKStation running SUN OS 4.03. ANSWER SUMMARY: The addition of support for memory-mapped files is an AT&T V.4 feature which we plan to add to DG/UX sometime after revision 4.30 is released. The exact revision number for this enhancement is not current- ly available.	STR:NASC000005213 ORIG-ID: MIT-0316 REV: 4.20 PROBLEM SUMMARY: Acctcon1 does not report correct information on correct times. ANSWER SUMMARY: This problem has been fixed in DG/UX Release 4.31. The problem was that accounting was not treat- ing psuedo-terminal entries in wtmp correctly but it did treat direct connect terminals correctly.
STR:NASC000005248 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: When using the sysadm facility to change the timezone it does not affect csh users. I believe the file	• STR:NASC000005187 ORIG-ID: Q994214 REV: 4.20 PROBLEM SUMMARY: System hung. All consoles and the master console do not respond. See letter describing environment.

DG/UX OPERATING SYSTEM ANSWER SUMMARY: This STR is being closed as you requested. STR:NASC000005069 ORIG-ID: E058404-00 REV: 4.20 • STR:NASC000005137 PROBLEM SUMMARY: ORIG-ID: UX-SR-1 **REV**: 4.20 Print server application associated with a hung terminal line cannot be terminated other than by a sys-**PROBLEM SUMMARY:** tem shutdown. No error is flagged when a child process refers to ANSWER SUMMARY: an unallocated memory location. This problem will be fixed in revision 4.31 of DG/UX. ANSWER SUMMARY: In any Unix system, you must initialize local variables before using them. p is allocated on the user's stack and is given whatever value happens to be on STR:NASC000005061 the stack at the time. In this example, p happens to ORIG-ID: MIT-0305 REV: 4.20 get a "valid" value which points into valid address PROBLEM SUMMARY: space. Set p to zero and your program will fail. Acctcon1 does not report correct connect time. ANSWER SUMMARY: Upon detailed examination of the problem your STR:NASC000005127 STR reports, we regret to inform you that we are un-REV: 4.20 ORIG-ID: Q990921 able to analyze this problem with the materials and in-PROBLEM SUMMARY: formation supplied with this STR. Should you wish to With a OCR scanner on a SCSI Bus causes DG/UX pursue this problem please submit another STR that to panic with 53000010 during boot if SCSI device is contains the required materials and information listed configured implicitly using "*". on the attached page. ANSWER SUMMARY: This particular device returns a unique vendor status to the SCSI inquiry command. The DG/UX STR:NASC000005052 device driver does not support this. On revision 4.20 ORIG-ID: CALTECH-51 REV: 4.20 of DG/UX you will see the 53000010 panic. In revisions PROBLEM SUMMARY: 4.21 and later the return status of Physi-System call returns bad value. cal Unit Failure will be generated instead. ANSWER SUMMARY: Upon detailed examination of the problem your STR reports, we regret to inform you that we are un- STR:NASC000005120 able to analyze the problem with the supplied infor-ORIG-ID: F987690 REV: 4.20 mation and materials. Should you wish to pursue this **PROBLEM SUMMARY:** problem please submit another STR that includes the dbx(1) is displaying the wrong value in the sample required information and materials, which are listed program provided (ie. it is printing the value as an inon the attached page. teger instead of a character). ANSWER SUMMARY: • STR:NASC000005050 This problem in dbx(1) will be corrected in DG/UX ORIG-ID: CALTECH-50 Release 4.30. Please upgrade to this revision when it REV: 4.20 becomes available. PROBLEM SUMMARY: Man page error or 'sysconf()' error. ANSWER SUMMARY: STR:NASC000005071 Upon detailed examination of the problem your ORIG-ID: E058406-00 4.20 REV: STR reports, we regret to inform you that we are un-PROBLEM SUMMARY: able to analyze this problem with the information and materials supplied. Should you wish to pursue this Single VDA/128 terminal lines hang erratically. problem please submit another STR and include the ANSWER SUMMARY: required information and materials, which are listed This problem will be fixed in revision 4.31 of DG/UX. on the attached page.

 STR:NASC000005049 ORIG-ID: CALTECH-49 REV: 4.20 PROBLEM SUMMARY: Distributed version of 'compress' does not handle file names of length > 12 (ie: SysV naming). ANSWER SUMMARY: We regret to inform you that we are unable to process this STR, as it reports a problem with software not supported by Data General. 	ANSWER SUMMARY: The problem you have reported in this STR can not be pursued due to the lack of a sample program. If you wish to pursue investigation of this problem, please submit a new STR and include a sample program in machine readable format along with the commands used to compile, link, and execute the program. • STR:NASC000005044 ORIG-ID: CALTECH-44 REV: 4.20 PROBLEM SUMMARY: 'Getdirentrise' man page refere to dir(4) which
• STR:NASC000005048 ORIG-ID: CALTECH-48 REV: 4.20 PROBLEM SUMMARY: Extremely bad library call policy (libc.a). ANSWER SUMMARY: Upon detailed examination of the problem your STR reports, we regret to inform you that we are un- able to analyze the problem your STR describes with the information and materials supplied. Should you wish to pursue this problem please submit another STR once you have obtained the required information and materials which are listed on the attached page.	 'Getdirentries' man page refers to dir(4) which does not exist. ANSWER SUMMARY: The getdirentries(2) man page as well as the dir(4) man page have been removed from DG/UX Release 4.30 because the getdirentries and dir commands are no longer supported. STR:NASC000005043 ORIG-ID: CALTECH-43 REV: 4.20 PROBLEM SUMMARY: SERIOUS serial port woes. Severely limits the use-
• STR:NASC000005046 ORIG-ID: CALTECH-46 REV: 4.20 PROBLEM SUMMARY: CPRS produces bad files (cprs? Id? cc? or nm? may be at fault). ANSWER SUMMARY: Upon detailed examination of the problem your STR reports, we regret to inform you that we are un- able to analyze this problem with the materials and in- formation supplied. Should you wish to pursue this problem please submit another STR that includes the required information and materials, which are listed on the attached page.	fulness of the serial port, including 'cu', 'uucp', X ANSWER SUMMARY: We regret to inform you that the STR you submitted cannot be processed because it reports multiple problems. Should you wish to pursue these problem and include the appropriate materials as described in the corresponding release notice. STR:NASC000005042 ORIG-ID: CALTECH-42 REV: 4.20 PROBLEM SUMMARY: GCC 1.35.21 cannot handle certain cases of mul- tiple uses of the same varargs list in one procedure. ANSWER SUMMARY:
• STR:NASC000005045 ORIG-ID: CALTECH-45 REV: 4.20 PROBLEM SUMMARY: Type "man getdirentries", and write a program using it, including < sys/dir.h > like the man page says. Find out that it won't compile. No where in the header file is getdirentries(,,,) defined.	The problem you have reported in this STR can not be pursued due to the lack of a sample program in machine readable format. If you wish to continue in- vestigation of the problem, please submit a new STR and include a sample program in machine readable format along with the commands used to compile, link, and execute the program.

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STR:NASC000005041 ORIG-ID: CALTECH-41 REV: 4.20	STR:NASC000004974 ORIG-ID: SEP-NYSDOH-02 REV: 4.20
PROBLEM SUMMARY: "mnttab" manual entry is incorrect. ANSWER SUMMARY:	PROBLEM SUMMARY: Can reproduct the LPSCHED process hanging, and cannot kill the process, (even with a kill -9) until
Upon detailed examination of the problem your STR reports, we can find no error in the manual page for mnttab(4). Should you wish to pursue this problem please submit another STR that explains the error you found in more detail.	the system is rebooted. ANSWER SUMMARY: Upon detailed examination of the problem your STR reports we regret to inform you that we are un- able to determine the cause of your problem with the materials supplied. However similar problems have been corrected with patch DGUX 4.20.00.16, we
• STR:NASC000005029 ORIG-ID: E058389 REV: 4.20	sugest you install this patch and if the problem con- tinues submit another STR at that time.
PROBLEM SUMMARY: Using modem to dial into an AV300 causes Xwin- dows to crash.	 STR:NASC000004967 ORIG-ID: VI-022690 REV: 4.20
ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX. As a workaround in the meantime, you can use a DG modem cable. This cable does not drive the ring in- dicator pin (22) which was being handled incorrectly and thereby caused this problem.	PROBLEM SUMMARY: The ftok C library call seems not to work properly. ftok is supposed to return a unique number based in two input parameters: pathname and offset. ANSWER SUMMARY:
STR:NASC000005012 ORIG-ID: MIT-030190 REV: 4.20 PROBLEM SUMMARY:	As per our last conversation, we are closing this STR with your approval. If this is still a problem, please submit another STR with a sample program to reproduce the problem.
Accounting program acctcon2 reports incorrect connect times.	• STR:NASC000004966 ORIG-ID: MIT-900227 REV: 4.20
ANSWER SUMMARY: This problem has been fixed in DG/UX Release 4.31. The problem was that accounting was not treat- ing psuedo-terminal entries correctly but did treat	PROBLEM SUMMARY: Cancellp function in sysadm lpmgmt does not function when printer classes are defined.
direct connect terminals correctly.	ANSWER SUMMARY: SYSADM does not yet support classes. This en- hancement will be considered for a future revision.
• STR:NASC000005000 ORIG-ID: Q984111 REV: 4.20	
PROBLEM SUMMARY: Problem running du(1) in background while com- piling a program, will cause DG/UX rev 4.20 to error with "Mem Faults".	STR:NASC000004964 ORIG-ID: CALTECH-32 REV: 4.20 PROBLEM SUMMARY: The "su" command behaves unexpectedly. While
ANSWER SUMMARY: This problem is resolved in DG/UX 4.30. Until then, the problem may be avoided by installing patch DG/UX 4.21.00.25 to DG/UX 4.20 or DG/UX 4.21. This	"su - jruser" does behave like a login, "su jruser" does not even run jruser's .cshrc (if the csh is his initial program), but DOES trash all aliases or variables in effect before the su.
DGUX_4.21.00.25 to DG/UX 4.20 or DG/UX 4.21. This patch has been installed on your system and has corrected this problem.	ANSWER SUMMARY: There doesn't appear to be a problem with your system's behavior. Correct behavior would cause aliases to not be inherited, and the exported environ-

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ment to be inherited. This is what happens on DG/UX 4.20.	
	• STR:NASC000004942 ORIG-ID: CALTECH-21 REV: 4.20
• STR:NASC000004962 ORIG-ID: CALTECH-30 REV: 4.20	PROBLEM SUMMARY: Unknown error message (from syslogd, I believe).
PROBLEM SUMMARY: GDB 3.4 problems (I realize that GDB is not sup- ported). ANSWER SUMMARY: We regret to inform you that we are unable to process your STR since it reports a problem with a unsupported product.	ANSWER SUMMARY: We regret to inform you that we are unable to deter- mine the cause of this problem with the materials and information supplied. Should you wish to pursue this please submit another STR after gathering the re- quired information and materials listed on the at- tached page.
• STR:NASC000004960 ORIG-ID: CALTECH-29 REV: 4.20	• STR:NASC000004937 ORIG-ID: CALTECH-17 REV: 4.20
PROBLEM SUMMARY: There is no way (that I could find) of forcing fsck to be run on the root partition. I had desperately wanted to do this at one point (in single user mode).	PROBLEM SUMMARY: Despite repeated attempts using \K, I have been completely unable to get uucp to send a break to the modem.
ANSWER SUMMARY: This functionality exists in DG/UX 4.20, please refer to the attached page for information on how to do this.	ANSWER SUMMARY: We regret to inform you that we are unable to analyze the problem your STR reports with the infor- mation and materials supplied with this STR. Should you wish to pursue this problem please submit another STR after gathering the required materials
• STR:NASC000004953 ORIG-ID: CALTECH-25 REV: 4.20	and information listed on the attached page.
PROBLEM SUMMARY: Unusually bad documentation. Despite DG/UX's overall good documentation, the a.out, scnhdr.h, nsyns.h, man pages and /usr/include files are patheti- cally (!!) poorly documented.	STR:NASC000004931 ORIG-ID: CALTECH-11 REV: 4.20 PROBLEM SUMMARY:
ANSWER SUMMARY: We regret to inform you that we are unable to	Man page entry in error: man a.out refers to scnhdr(4), but this man page does not exist.
process your STR since it reports multiple problems. Should you wish to pursue these problems please submit seperate STRs for each problem, including detailed examples of how the documentation is in error. Please refer to the DG/UX release notice for more information on submiting STRs.	ANSWER SUMMARY: The a.out(4) man page has been changed in DG/UX Release 4.30 to omit a reference to scnhdr(4) as this was an oversight in previous releases.
	• STR:NASC000004913 ORIG-ID: 62303-900209- REV: 4.20
• STR:NASC000004952 ORIG-ID: Q980698 REV: 4.20 PROBLEM SUMMARY: Error - "Segmentation Fault - core dump", returned from the linker on a make of a gnu c opject files, with GKS and Xwindow libraries. ANSWER SUMMARY:	PROBLEM SUMMARY: dirent.h not compatible with readdir sytem call. readdir stores d_name at offset d_reclen of dirent.h. ANSWER SUMMARY: We regret to inform you that we are unable to deter- mine the cause of the problem your STR reports with the materials and information supplied. Should you
The problem you reported has been fixed in the forthcoming release of DG/UX, revision 4.30.	wish to pursue this problem please submit another

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STR after you have gathered the required materials and information listed on the attached page.	• STR:NASC000004909 ORIG-ID: 47036-900208- REV: 4.20
• STR:NASC000004912 ORIG-ID: 62303-900209- REV: 4.20 PROBLEM SUMMARY: When linking with -Im (standard math Lib) and X11 a multiply defined "ACOS" occurs. ANSWER SUMMARY: We regret to inform you that we are unable to deter- mine the cause of the problem your STR reports with	PROBLEM SUMMARY: DG/UX is lacking a cp -r command to do a copy of a directory and all subordinate files and directories. Please add the -r option to the cp command. ANSWER SUMMARY: This functionality will be provided in DG/UX Release 4.40 with the AT&T V.4 compatible cp com- mand.
the materials and information supplied. Should you wish to pursue this problem please submit another STR after you have gathered the required information and materials listed on the attached page.	STR:NASC000004895 ORIG-ID: Q981395 REV: 4.20 PROBLEM SUMMARY: DG/UX revision 4.20 hangs seven to eight times a day.
• STR:NASC000004911 ORIG-ID: 62303-900209- REV: 4.20 PROBLEM SUMMARY: Logging out from CSH with < CTRL > D gives "Use Logout" message. ANSWER SUMMARY: This feature can be overridden by setting the ig- noreeof variable off. This can be done one of two ways. One way is once the user has logged in, the variable can be turned off by entering 'unset ignoreeof'. For the change to be in effect for all users who use the csh, the /etc/login.csh file can be modified to remove the set ignoreeof line.	ANSWER SUMMARY: Upon detailed examination of the system dump you submitted with this STR, we regret to inform you that we could not determine the cause of your system hangs from this one dump. Since the problem has not occured at your site after making various hardware and software changes we believe that this problem has been resolved at your site. STR:NASC000004861 ORIG-ID: Q980246 REV: 4.20 PROBLEM SUMMARY:
STR:NASC000004910 ORIG-ID: 47036-900209- REV: 4.20 PROBLEM SUMMARY: The sifilter program produces incorrect assembly code when the -1 option is used. ANSWER SUMMARY: We regret to inform you that we are unable to deter- mine the cause of the problem you STR reports with the materials and information supplied. Should you wish to pursue this problem please submit another STR after gathering the required materials and infor- mation listed on the attached page.	When logged into a VAC/16 port over a modem, DSR does not drop on the VAC/16 when running a process other than the login shell and the phone line is lost. ANSWER SUMMARY: As we discussed in our telephone conversation the problem reported by this STR appears to be cor- rected in revision 4.22 of DG/UX. Please upgrade to this revision when it becomes available. • STR:NASC000004850 ORIG-ID: 1990001 REV: 4.20
	PROBLEM SUMMARY: The DG/UX 4.20 Ciprico SCSI host adapter driver, cisc(), will not return more than 8 bytes of sense data when a SCSI operation completes with a "check con- dition" status. ANSWER SUMMARY: This problem is corrected in DG/UX 4.30. Until then patch DGUX_4.20.00.24 can be used with DG/UX 4.20

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or 4.21 to avoid the problem. With 4.30 both the cisc() and the insc() drivers will require you to specify ex- actly how many sense bytes you require, rather than 8 more than what you really want. The device drivers manual for 4.30 will reflect this change.	STR:NASC000004801 ORIG-ID: JCSVALFORK REV: 4.20 PROBLEM SUMMARY:
• STR:NASC000004841 ORIG-ID: SYBASE-0219-3 REV: 4.20 PROBLEM SUMMARY: The Sybase server, when run from inside a shell script, behaves incorrectly, disconnecting sockets	Use of a fork function in C after opening the graphics device driver causes DG/UX to panic. ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX.
through which the clients communicate with the serv- er. ANSWER SUMMARY: The problem you report was caused by the user improperly setting up a socket call.	• STR:NASC000004800 ORIG-ID: NYS-900214 REV: 4.20 PROBLEM SUMMARY: Request for enhancement of a switch on the write command which disables the use of the bell (perhaps use a visual bell).
• STR:NASC000004827 ORIG-ID: UPPER-CASE LO REV: 4.20 PROBLEM SUMMARY: If a user tries to log in using upper case only, the login attempt fails. A lower-case login works fine. This problem is only reproducible on Topgun "SYSTEC" controllers.	ANSWER SUMMARY: Write(1) is a very basic command that is used by many programs and utilities in DG/UX and not just in shutdown(1M). In its simplest form, write passes a character string to any device. Because of this, it is not feasible to have write suppress the passing of a particular character to a device (^g is the character which rings the bell).
ANSWER SUMMARY: This problem will be solved in revision 4.30 of DG/UX	STR:NASC000004799 ORIG-ID: SEP-900214 REV: 4.20 DDODU 5M 00000000000000000000000000000000000
 STR:NASC000004822 ORIG-ID: SYBASE-900215 REV: 4.20 PROBLEM SUMMARY: The Asynchronous raw disk facility appears to NOT free memory upon completion of a transfer to a raw device. ANSWER SUMMARY: This problem has been fixed in DG/UX 4.22 as well as DG/UX 4.30. 	PROBLEM SUMMARY: DG/UX's VT/100 emulator does not allow use of the arrow keys on the AV300's 101 keyboard running out- side of the X-Window environment. Please add this support. ANSWER SUMMARY: We will consider enhancements to the kernel ter- minal emulator in a future revision of DG/UX for AViiON.
 STR:NASC000004821 ORIG-ID: MDP-MDC01 REV: 4.20 PROBLEM SUMMARY: XOFF (CTRL-S) freezes the terminal and all terminals on the syac. ANSWER SUMMARY: The problem reported has been fixed in DG/UX 4.30. Patch DGUX_4.20.00.16 was supplied to you to fix the problem on your system currently running 	• STR:NASC000004798 ORIG-ID: 02139001 REV: 4.20 PROBLEM SUMMARY: Cannot hook up a 1200bd modem to Duart port under DGUX 4.20 ANSWER SUMMARY: As we discussed in our telephone conversation we are closing this STR with your approval, since you suspect this problem is being caused by a configura- tion error. Should this problem persist after you com- plete troubleshooting this problem please feel free to

STR:NASC000004779 ORIG-ID: E058303 REV: 4.20 PROBLEM SUMMARY: Patch dgux_4.20.02 introduces an unacceptably long delay echoing characters. ANSWER SUMMARY: It was a product restriction of patch dgux_4.20.02 that performance would be affected. Patch	ANSWER SUMMARY: We regret to inform you that we are unable to deter- mine the cause of this problem with the information and materials supplied. Should you wish to pursue this please submit another STR after gathering the re- quired information and materials listed on the at- tached page. • STR:NASC000004759 ORIG-ID: Q970438 REV: 4.20
dgux_4.20.00.16 should not only solve the original problem but also alleviate performance degradation caused by patch 2.	PROBLEM SUMMARY: Problem with printer hanging running rev 4.20 of DG/UX. Printer will print 1 print request, printer then becomes disabled and the only way to correct this is
STR:NASC000004776 ORIG-ID: E058259 REV: 4.20 PROBLEM SUMMARY: Simultaneously accessing two EXABYTE tape	to bring the system down and back up. ANSWER SUMMARY: This problem will be corrected in DG/UX 4.21.
drives on the same SCSI controller using a blocking factor of 5120 bytes will fail with an I/O error 5. Changing the blocking factor to 512 bytes allows simultaneous access.	STR:NASC000004744 ORIG-ID: Q955420 REV: 4.20 PROBLEM SUMMARY:
ANSWER SUMMARY: This problem is believed to have been caused by deficiencies in the Exabyte tape drive firmware. This firmware has since been upgraded and the described problems are not seen when running the new firmware. The Data General ECO number for this firmware is #28706.	Assembly program causes panic 2000075, Rev 4.20 of DG/UX. ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30. The problem only occurs when the dividend is negative, and the divisor is a 16-bit immediate (NOT a register) that has any bits from 7 through 5 set. No problem occurs if the divisor is in a register regardless of the
• STR:NASC000004768 ORIG-ID: Q962915 REV: 4.20	value in the register or the register number.
PROBLEM SUMMARY: When printing to a parallel printer on a VDA-8P	• STR:NASC000004725 ORIG-ID: Q969825 REV: 4.20
using the "dumb" interface, a "(" is printed before the valid text. ANSWER SUMMARY: This problem can be eliminated by modifying the "async_9600" lp model file. Remove the "ff1" and "cr2" arguments from the stty command line within this model file.	PROBLEM SUMMARY: The "Programmer's Reference for the DG/UX Sys- tem - (Volume 2)" has several documentation errors with respect to the math functions sin() and cos(). ANSWER SUMMARY: The intro(3) man page has been updated to reflect the correct library names for DG/UX Release 4.30. This change has been made both on-line and in the
STR:NASC000004767 ORIG-ID: MM-900209 REV: 4.20 PROBLEM SUMMARY: Problem with how DG/UX handles processes with different priorities.	next release of "Programmer's Reference for the DG/UX System - Volume 2". Note that sin and cos are in libm.a and require the "-Im" switch to cc or ld when compiling the sample program you provided.

DG/UX OPER/	TING SYSTEM
• STR:NASC000004722 ORIG-ID: Q969862 REV: 4.20	the NCR machine with the -c option are not readable by Sun, POSIX, or current DG/UX versions of cpio(1).
PROBLEM SUMMARY: Problems using 'cu': CD must be forced high to dialout, but this causes problems for dial-in.	• STR:NASC000004658 ORIG-ID: LOM-900131 REV: 4.20
ANSWER SUMMARY: Your problem can easily be solved by adding the M option to the device discription in /usr/lib/uucp/Devices. We will enhance the documen- tation to cover this option in a future revision of DG/UX.	PROBLEM SUMMARY: When system is powered up and if a parallel (centronics compatible (negative strobe)) printer is attached and on-line/ready, DG/UX will panic with 4000110. This cold power-up problem occurs ap- proximately one time in five power-ups.
• STR:NASC000004715 ORIG-ID: Q969334 REV: 4.20	ANSWER SUMMARY: Stray interrupts to the parallel port were not being properly cleared. This problem will be fixed in revision 4.30 of DG/UX.
PROBLEM SUMMARY: Tar -u will return 'memory fault' error.	
ANSWER SUMMARY: The problem recorded in this STR should only occur when writing to either a Banshee QIC-150 or Maytag 1600 bpi reel-to-reel tape. The problem is due to a hardware restriction of these two tape drives that allows the tape to only be written at the beginning of tape (BOT) or appended to the End of Recorded Media (EORM). See the rmt(7) man page for more in- formation.	STR:NASC000004647 ORIG-ID: Q947983 REV: 4.20 PROBLEM SUMMARY: DG/UX system panic 2000107. ANSWER SUMMARY: Upon detailed examination of the core dump sup- plied with this STR we are unable to determine the exact cause of this panic but we suspect that the panic was caused by some sort of transient memory error. As we discussed in our
• STR:NASC000004680 ORIG-ID: MD-CTS-900201 REV: 4.20	telephone conversation we are closing this STR with your ap- proval since you have not had
PROBLEM SUMMARY: Console ports on a VAC/16 will hang intermittent- ly during user login sessions and occasionally when exiting from a login session.	another panic of this type. STR:NASC000004636 OPIC UD: 0057079 BEV(1) 4 200
ANSWER SUMMARY: The problem reported has been fixed in DG/UX 4.30. Patch DGUX_4.20.00.16 was supplied to you to correct the problem on your system running DG/UX	ORIG-ID: Q957978 REV: 4.20 PROBLEM SUMMARY: The 'who' command shows users who have al- ready logged off the system.
4.20.	ANSWER SUMMARY: This is not actually a problem, but occurs due to
• STR:NASC000004670 ORIG-ID: JCSCPIO-01 REV: 4.20	the implementation. The way to avoid this behavi to use xkill to kill the xterm sessions rather than u
PROBLEM SUMMARY: cpio(1) fails to read a QIC-60 tape made from an NCR Tower Model 600 system. When loading, the filenames are byte-swapped.	will allow the proper file updates to take place so that the problem you described does not occur.
ANSWER SUMMARY: The DG/UX 4.30 version of cpio(1) is fixed to read the tapes made without the -c option. Tapes made on	

DG/UX OPERA	TING SYSTEM
 STR:NASC000004625 ORIG-ID: Q958008 REV: 4.20 PROBLEM SUMMARY: The shutdown command on a 5000 or 6000 series AViiON causes the error message "/sbin/shutdown: < number > Alarm call" to appear. ANSWER SUMMARY: We are closing this STR with your approval. 	STR:NASC000004598 ORIG-ID: RS-900124 REV: 4.20 PROBLEM SUMMARY: When monitoring free memory reported by SAR or using DG SYSINFO system call, results are mislead- ing. ANSWER SUMMARY: This problem will be corrected in revision 4.30 of
 STR:NASC000004624 ORIG-ID: Q947390 REV: 4.20 PROBLEM SUMMARY: VI hangs intermittently while using VT220 emula- tion. ANSWER SUMMARY: As per our telephone conversation, we are closing this STR with your approval. We understand that you have not experienced the problem since installing revision 4.21. 	 DG/UX. STR:NASC000004597 ORIG-ID: SMC.9001.22 REV: 4.20 PROBLEM SUMMARY: System hangs for several minutes at a time (ie - no response on any terminal). ANSWER SUMMARY: This problem was resolved by the installation of "ts.a" patch 02, named DGUX_4.20.02.
• STR:NASC000004622 ORIG-ID: Q954988 REV: 4.20 PROBLEM SUMMARY: Documents printed on a high-speed parallel printer hooked up to the parallel port of an Aviion 6100 series machine running 4.20.02 will intermittently lose characters. ANSWER SUMMARY: The software component of this fix is included in revision 4.22 of DG/UX. A DG hardware change order (number DC35) should also be applied to more com- pletely correct the problem of character loss on the parallel printer port.	STR:NASC000004580 ORIG-ID: SS-0001 REV: 4.20 PROBLEM SUMMARY: We are getting system hangs. It seems as if though the hangs occur more with the patches to the ts sub- system installed, DG/UX_4.20.01 or DG/UX_4.20.02. ANSWER SUMMARY: The problem your STR reports is corrected in revision 4.22 and latter of DG/UX. STR:NASC00004579 ORIG-ID: MIT-0001 REV: 4.20
 STR:NASC000004617 ORIG-ID: MIT-900126 REV: 4.20 PROBLEM SUMMARY: Follow-up on STR NASC-4399. Problem with arrow keys in D460 not completely fixed in 4.20. ANSWER SUMMARY: As mentioned in STR NASC-4399, one must do a "stty -istrip" or a "stty pass8" depending upon if he/she is using AT&T or BSD line disciplines respectively. This allows all 8 bits to be passed through to the host system. The support materials show that you have istrip set incorrectly in your line disciplines. Correct the line disciplines and the problem with arrow keys is corrected. 	PROBLEM SUMMARY: D210 and D260 terminals do not respond to a Con- trol-Q after a Control-S has beem issued. The terminal must be powered off to restore output to the terminal. ANSWER SUMMARY: This problem occurred because the line charac- teristics did not match the terminal. After correcting this, the problem went away. STR:NASC000004574 ORIG-ID: Q950492 REV: 4.20 PROBLEM SUMMARY: DTR and CD signals incorrect for modem on AV300 tty01 port.

DG/UX OPERA	TING SYSTEM
ANSWER SUMMARY: This problem is resolved in revision 4.21 of DG/UX.	STR:NASC000004546 ORIG-ID: Q948093
• STR:NASC000004572 ORIG-ID: Q958046 REV: 4.20 PROBLEM SUMMARY: If a login session into a modem on a tty port ter- minates abnormally (user hangs up or call discon- nects), the modem port hangs. It appears that the .logout script does not run to completion. ANSWER SUMMARY: This problem is fixed in revision 4.30 of DG/UX.	PROBLEM SUMMARY: Tunefs will not allow the use of a 0 (zero) as a value for min_free, (i.e. tunefs -m0 /filesystem). The error return from tunefs states the values must be "> = 1 and < = 99". The man page states 0 to 100 percent. ANSWER SUMMARY: This problem is corrected with DG/UX 4.30, then tunefs(1M) will allow 0 as a value for min_free.
• STR:NASC000004557 ORIG-ID: Q958235 REV: 4.20 PROBLEM SUMMARY: The "tunefs" command reports the error "read of root file node fail, can't change minimum percent of free space", when run on a 4157137 block filesystem. Note: 4157137 blocks is 37167 blocks short of a 2 gigabyte filesystem. ANSWER SUMMARY: This problem is fixed with DG/UX 4.30.	 STR:NASC000004545 ORIG-ID: Q948093 REV: 4.20 PROBLEM SUMMARY: If a printer is off-line when the scheduler sends a job to the printer the scheduler will disable the printer. Must reboot or reload the syac to re-enable the printer. ANSWER SUMMARY: The problem has been fixed in DG/UX 4.30 and by patch DGUX_4.20.00.16 for DGUX 4.20. This patch has been installed at your site and has corrected this problem.
• STR:NASC000004556 ORIG-ID: BH-900122 REV: 4.20 PROBLEM SUMMARY: When using modlp functionality under sysadm utilizing a D412 in VT220 mode, entire system will hang on the question to restart the scheduler. ANSWER SUMMARY: As we discussed, this problem was corrected by the installation of patch DGUX_4.20.02 and we are closing this STR with your approval.	 STR:NASC000004542 ORIG-ID: Q956801 REV: 4.20 PROBLEM SUMMARY: Problem with serial printer on VDC/128. If printer goes off-line and a print job is sent to this printer the printer will become disabled. The only way to clear this is by bringing system down and back up or reloading syac. ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30 and by patch DGUX_4.20.00.16 for DG/UX 4.20. This patch
• STR:NASC000004551 ORIG-ID: BH-900119 REV: 4.20 PROBLEM SUMMARY: DG/UX intermittently experiences 5 to 30-second pauses. Randomly throughout the day shell com- mands such as "ps -ef" will pause before and during the response. ANSWER SUMMARY: As we discussed, this problem was corrected by the installation of patch DGUX_4.20.02 and we are closing this STR with your approval.	 has been installed at your site and has corrected this problem. STR:NASC000004533 ORIG-ID: LHT-011890 REV: 4.20 PROBLEM SUMMARY: AV5100 with a VDA/128 and 8 VDC's running PROGRESS software is "HANGING" 2 to 3 times a day.

DG/UX OPERATING SYSTEM	
ANSWER SUMMARY: As we discussed, this problem seems to have been corrected by the installation of patch DGUX_4.02.02 and we are closing this STR with your approval.	ANSWER SUMMARY: As we discussed in our telephone conversation that this problem was solved by changing your program to do BLOCK I/O reads from the tty port rather than BLOCK I/O reads.
 STR:NASC000004526 ORIG-ID: E58198-00 REV: 4.20 PROBLEM SUMMARY: System panic 1000037. ANSWER SUMMARY: An analysis of the dump provided indicated that the panic occurred while the kernel was trying to read the memory location of the LAN board. This is not a software problem, but rather a problem with your hardware. This problem was corrected by changing the physical slot location of the LAN controller. STR:NASC000004516 ORIG-ID: E058190 REV: 4.20 PROBLEM SUMMARY: Error - "unexpected type 1 at symnum 23087" when dbx is run against a ghf77 program before getting to the dbx prompt. ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX. STR:NASC000004515 ORIG-ID: Q955785 REV: 4.20 PROBLEM SUMMARY: Error "No symbol "variable name" in current con- text" returned from a DBX PRINT variable_name com- mand. ANSWER SUMMARY: This problem is fixed in DGUX 4.30 with patch DGUX_4.30.00.6 and Green Hills Fortran Version 1.8.5. Also, when viewing variables in the common block, it is necessary to use the name of the common block, it is necessary to use the name of the common block, it is necessary to use the name of the common block in the print command. ie for COMMON/a/x, y, z, your would issue the command print a.x to see the contents of x. 	STR:NASC000004510 ORIG-ID: TSE-900115 REV: 4.20 PROBLEM SUMMARY: Some combination of Control-C and Control-D cause the user's terminal to hang until the getty is killed by root. ANSWER SUMMARY: This problem did not occur under revision 4.22 of DG/UX. Please upgrade to this revision when it be- come available. Should this problem still exist after in- stalling revision 4.22 of DG/UX please submit another STR along with the explicit keystrokes required to duplicate the error and another dump tape taken when the line is hung. STR:NASC000004510 ORIG-ID: TSE-900115 REV: 4.20 PROBLEM SUMMARY: An XOFF issued on a terminal line causes the getty to hang such that it cannot be killed until the user is- sues XON. ANSWER SUMMARY: This problem will be fixed in revision 4.31 of DG/UX. STR:NASC000004499 ORIG-ID: DGUX-900115 REV: 4.20 PROBLEM SUMMARY: This problem will be fixed in revision 4.31 of DG/UX. STR:NASC000004499 ORIG-ID: DGUX-900115 REV: 4.20 PROBLEM SUMMARY: This problem has been fixed in revision 4.22 of DG/UX.
STR:NASC000004513 ORIG-ID: TSE-891221 REV: 4.20 PROBLEM SUMMARY: Program loses incoming data on VAC-16 line at 9600 baud and no flow control.	ORIG-ID: STS-901015-2 REV: 4.20 PROBLEM SUMMARY: It seems that since the upgrade to rev 4.20, the last 2 lines of a print-out get lost. ANSWER SUMMARY: This problem will be fixed in DG/UX 4.21 as well as DG/UX 4.30.

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	 STR:NASC000004409 ORIG-ID: STS-900108 REV: 4.20
• STR:NASC000004493 ORIG-ID: STS-901015-1 REV: 4.20 PROBLEM SUMMARY: It seems that every print request takes up a lot of CPU cycles. ANSWER SUMMARY: This problem will be corrected in revision 4.30 of	PROBLEM SUMMARY: 'sar -r' reports two values, freemem and freeswap. The freemem value is incorrect. ANSWER SUMMARY: This problem has been corrected in DG/UX 4.30
DG/UX.	• STR:NASC000004379 ORIG-ID: Q948095 REV: 4.20
• STR:NASC000004439 ORIG-ID: E058167 REV: 4.20 PROBLEM SUMMARY: Aviion C programs printing incorrect results when the pad operator is used with printf, print, and fprintf statements. ANSWER SUMMARY: This problem has been resolved in revision 4.30 of DG/UX. Please upgrade to this revision as soon as it becomes available.	PROBLEM SUMMARY: Under revision 4.10 DG/UX "uugetty" would pull DTR high when it was started on a port. After uprev- ing to 4.20 we have found that "uugetty" no longer pulls DTR high. ANSWER SUMMARY: This problem was due to a corrupted /etc/gettydefs file as you discovered. After restoring /etc/gettydefs, you have found that uugetty(1M) is functioning cor- rectly. Therefore we are closing the STR at your direc- tion.
• STR:NASC000004414 ORIG-ID: Q947973 REV: 4.20 PROBLEM SUMMARY: I request that the file system utilities support file systems greater than two gigabytes. Currently fsck(1M), tunefs(1M), df(1M), and fsdb(1M) do not work correctly with file systems this large. ANSWER SUMMARY: The maximum supported file system on DG/UX 4.20 is 2 gigabytes. Larger file systems were partially implemented in DG/UX 4.20, but it is not recom- mended to attempt to use file system greater than 2 gb. DG/UX 4.30 will allow larger file system utilities will support this enhancement.	 STR:NASC000004377 ORIG-ID: 3311-354 REV: 4.20 PROBLEM SUMMARY: When adding a user through the sysadm menus, the yellow pages password file does not get updated. The yellow pages hosts and ethers files also don't get updated when using "sysadm addxxx" or "sysadm delxxx". ANSWER SUMMARY: The sysadm adduser, addhost, and addether scripts will be fixed in Rev 4.30 of DG/UX to properly make the Yellow Pages databases when invoked on a YP Master.
STR:NASC000004411 ORIG-ID: Q945684 REV: 4.20 PROBLEM SUMMARY: Problem using df(1M), when the command is used to check the amount of free space on a 1 gigabyte file system, it returns -20000000 used 0 free. ANSWER SUMMARY: This problem is corrected with DG/UX 4.30.	STR:NASC000004372 ORIG-ID: IAN01 REV: 4.20 PROBLEM SUMMARY: Iptab stops sending data to line printer during a print job. ANSWER SUMMARY: This problem will be resolved in revision 4.21 of DG/UX.

DG/UX OPERA	TING SYSTEM
• STR:NASC000004356 ORIG-ID: HBO-900103 REV: 4.20	• STR:NASC000004263 ORIG-ID: MIT-891219 REV: 4.20
PROBLEM SUMMARY: The make command will incorrectly report that de- pendent files are up to date if you use a relative path rather than an absolute path.	PROBLEM SUMMARY: Every few days all terminals attached to the Cluster controller freeze, although they still echo. Console and networking are not affected.
ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30.	ANSWER SUMMARY: This problem is fixed with patch number 2 to DG/UX 4.20.
• STR:NASC000004320 ORIG-ID: IAN01 REV: 4.20	STR:NASC000004080 ORIG-ID: Q929804 REV: 4.20
PROBLEM SUMMARY: When X-windows and Motif are running and a local serial printer is in use, after some printing the printing will stop. This does not occur if X is not being used. It does not occur with parallel printers.	PROBLEM SUMMARY: Everytime you log off of a VDA/128 line, the line hangs. This only occurs on systems with DGUX_4.20.01 installed. The line can often be freed up by killing the getty(1M) and resetting the terminal.
ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX.	ANSWER SUMMARY: This problem is fixed with patch DGUX_4.20.02, which has already been sent to you.
• STR:NASC000004302 ORIG-ID: TBA-122189 REV: 4.20	
PROBLEM SUMMARY: Multiple sorts on large files results in write errors being reported by the O.S.	STR:NASC000003770 ORIG-ID: KF-891102 REV: 4.20 PROBLEM SUMMARY:
ANSWER SUMMARY: The write error you report occurs when the avail- able space in the file system you are putting the des- tination files in is less than 10% free. This is a feature in DG/UX to prevent overflowing a file system. This	Upon logging off of a terminal connected to a VDA/128, that line will hang. This problem only occurs on VDA/128s and if patch DGUX_4.20.01 is installed. Often it can be freed up by killing the getty(1M) and resetting the terminal.
10% free space margin is changable by the superuser with the tunefs(1m) command.	ANSWER SUMMARY: This problem is fixed in DG/UX revision 4.30 and by patch DGUX_4.20.00.16 to DGUX 4.20. This patch has been installed at your site and has corrected this
• STR:NASC000004271 ORIG-ID: Q931161 REV: 4.20	problem.
PROBLEM SUMMARY: Customer is attempting to use the UUGETTY sup- plied with AViiON UX 4.20 for both UUCP and dial- in/out usage. The program results will vary according to how the process is to be used; thus, the UUGET- TY program is unusable.	STR:JAPN000000422 ORIG-ID: NDG 2280 REV: 4.20 PROBLEM SUMMARY: Panic 20000075 at pty close ANSWER SUMMARY:
ANSWER SUMMARY: A problem with uugetty handling hangup signals generated by the use of cu has been identified. A new uugetty has been provided that will resolve this problem. This new uugetty will also ship with DG/UX 4.30.	This problem has been fixed in revision 4.30 of DG/UX.

DG/UX OPERATING SYSTEM	
STR:JAPN000000405 ORIG-ID: NDG 2263 REV: 4.20 PROBLEM SUMMARY: gethostbyname() return slowly ANSWER SUMMARY: The library function gethostbyname will use /etc/svcorder to select which facilities need to be checked for the existance of a host. If the /etc/svcor- der file does not exist, /etc/hosts, yp, and dns (named) are all checked. If you are not running yp or dns, edit	ANSWER SUMMARY: The information necessary to completely under- stand this problem was not provided. Several problems related to your problem description will be fixed in revisions 4.21 and 4.30 of DG/UX. If these revisions do not solve your problem, please resubmit this STR with as much information as possible so that we can completely understand your particular problem.
the /etc/svcorder file to contain the word ehosts. This will cause gethostbyname to check only /etc/hosts for the host.	STR: JAPN000000349 ORIG-ID: NDG 2206 REV: 4.20 PROBLEM SUMMARY: Terminal output is stopped on syac().
STR:JAPN000000364 ORIG-ID: NDG 2220 REV: 4.20 PROBLEM SUMMARY: Wolfman lib used application cause PANIC when fork() time	ANSWER SUMMARY: This problem is resolved by patch 16 to DG/UX 4.20. This patch will be included in DG/UX Revision 4.21.
ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX.	STR:JAPN000000341 ORIG-ID: NDG 2198 REV: 4.20 DEODLEM SUMMADY:
STR:JAPN000000358 ORIG-ID: NDG 2215 REV: 4.20 PROBLEM SUMMARY: The process which is writing a syac() line hungs.	PROBLEM SUMMARY: Sysadm usermgmt" doesn't support global user management completely. ANSWER SUMMARY: This problem will be fixed in DG/UX 4.30.
ANSWER SUMMARY: The dump which was taken when the hang oc- curred has not been received. It is possible that modification of the terminal services library for revisions 4.21 and 4.30 of DG/UX will solve your problem. Please resubmit this STR if the problem still occurs on those revisions.	STR:JAPN000000337 ORIG-ID: NDG 2194 REV: 4.20 PROBLEM SUMMARY: Master console hanging up. ANSWER SUMMARY: This problem has been fixed in DG/UX Release
• STR:JAPN000000357 ORIG-ID: NDG 2214 REV: 4.20 PROBLEM SUMMARY: Panic 2000075 occurs when closing a socket file. ANSWER SUMMARY: This problem is resolved in revision 4.30 of DG/UX.	4.40. • STR:JAPN000000334 ORIG-ID: NDG 2191 REV: 4.20 PROBLEM SUMMARY: Stand among diskman changes the value of the stty erase setting.
• STR:JAPN000000350 ORIG-ID: NDG 2205 REV: 4.20 PROBLEM SUMMARY: Interrupt character handling delay occurs on syac().	ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX.

DG/UX OPERATING SYSTEM	
• STR:JAPN000000328 ORIG-ID: NDG 2185 REV: 4.20	STR:FRA 000000515 ORIG-ID: BRUNO PICARD: REV: 4.20
PROBLEM SUMMARY: Sysadm datetime does not change the timezone for users logged in via the csh. ANSWER SUMMARY: This problem will be resolved in DG/UX Revision	PROBLEM SUMMARY: AVIION 300. The workstation contains on its disk only a swap area and a file system called usr2 (its operating system is on a topgun). The customer can't export this file system usr2 for use on other system in the network.
4.30. • STR:ITAL000000060 ORIG-ID: DGITALY (MI-9 REV: 4.20 PROBLEM SUMMARY: Commands "mv" and "mvdir" don't work if a file is in root dir. ANSWER SUMMARY:	ANSWER SUMMARY: Both the dataless (diskless w/ local disk) and client (machine mounting the dataless' disk) must run lockd. lockd will be fixed in Rev 4.30. Workaround to avoid the lockd is to move the dataless' exports file onto the local disk, create a link to the real /etc/ex- ports and then the exportfs command will create a local file lock rather than a remote file lock.
The mv/mvdir problem is fixed in DGUX 4.30. STR:ITAL000000055	STR:AUSC000005384 ORIG-ID: REV: 4.20 PROBLEM SUMMARY:
ORIG-ID: MI-90-01 (DGM REV: 4.20 PROBLEM SUMMARY: Program using an integer matrix of 64Mb won't run after machine is up for a while: DG/UX starts paging in an endless mode. DG/UX unable to reallocate 64Mb of memory for program to run.	Panic 14000005 ANSWER SUMMARY: Because of a hard tape media error, we were un- able to read your system dump. If your system panics again, please resubmit this STR.
ANSWER SUMMARY: This program exhibits the expected behavior. The I/O buffers allocated with PERCENTBUF are not ac- tually made memory-resident until they are used. Once they are used, they become wired in memory and do not become unwired again. This is what makes the program run differently when the system is first booted and when it has been up for a while.	• STR:AUSC000005327 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: CPIO(1) GIVES INCORRECT RESULTS WHEN ARCHIVING/UNARCHIVING THE FILE /DEV/RMT/0 ANSWER SUMMARY: This problem is fixed in DG/UX release 4.30.
• STR:ITAL000000054 ORIG-ID: PD-90-01 REV: 4.20 PROBLEM SUMMARY: Request for Enhancement: a subroutine to get the physical Ethernet address of the inen() [AVX 3x0]. ANSWER SUMMARY: We have no plans for a routine to read the Ether- net address; however, we will consider adding a method to obtain a unique ID for every machine based on a CPU ID, in a future revision.	STR:AUSC000005317 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: PANIC 57000104 ANSWER SUMMARY: This problem is identical to that described by STR AUSC-5316. Please track AUSC-5316 for status on this problem.

DG/UX OPERA	TING SYSTEM
• STR:AUSC000005316 ORIG-ID: REV: 4.20	path which generated this error has been fixed in DG/UX 4.30.
PROBLEM SUMMARY: PANIC 57000104 ANSWER SUMMARY:	• STR:AUSC000005295 ORIG-ID: REV: 4.20
The materials submitted with this STR are not suf- ficient to determine the problem. If this problem recurs, please resubmit this STR making sure to in- clude a system dump image and a copy of the /dgux kernel image for use in problem determination.	PROBLEM SUMMARY: PANIC 20000010 ANSWER SUMMARY: This problem has been resolved in revision 4.30 of DG/UX.
• STR:AUSC000005304 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: Request for Enhancement: Sysadm should create a dump file for use when a diskless client panics. Everything else done to set up a diskless client is automatic. ANSWER SUMMARY: This enhancement request will be considered for a future revision of DG/UX.	STR:AUSC000005294 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: HANG ON AV300 ANSWER SUMMARY: This problem was caused by a kernel stack over- flow. This condition has been fixed in DG/UX 4.30
• STR:AUSC000005303 ORIG-ID: REV: 4.20 PROBLEM SUMMARY: On the master YP server, using sysadm to add, delete, or modify a user fails to run the "make" com- mand so the YP database does not get updated.	ORIG-ID: REV: 4.20 PROBLEM SUMMARY: PANIC 2000075 ANSWER SUMMARY: This problem has been corrected in revision 4.30 of DG/UX.
ANSWER SUMMARY: This problem will be fixed in Rev 4.30 of DG/UX.	• STR:AUSC000005292 ORIG-ID: REV: 4.20
• STR:AUSC000005302 ORIG-ID: REV: 4.20	PROBLEM SUMMARY: SDB gets a bus error during initialization.
PROBLEM SUMMARY: CHANGING THE TIMEZONE OR TIME DETAILS DOES NOT UPDATE /etc/TIMEZONE.csh ANSWER SUMMARY:	ANSWER SUMMARY: This behavior was a result of sdb being killed by the kernel when swap space on the system was depleted. Swap space should be increased to eliminate this problem.
This problem will be fixed in revision 4.30 of DG/UX.	• STR:AUSC000005289
• STR:AUSC000005296 ORIG-ID: REV: 4.20	ORIG-ID: REV: 4.20 PROBLEM SUMMARY:
PROBLEM SUMMARY: PANIC 400075	PANIC 02000075 ANSWER SUMMARY:
ANSWER SUMMARY: From investigating the dump provided, the panic you received was 200075 and not 400075. The code	This problem has been resolved in revision 4.30 of DG/UX.

• STR:AUSC000005286 ORIG-ID: REV: 4.20	STR:NASC000004933 ORIG-ID: CALTECH-13 REV: 4.11
PROBLEM SUMMARY: DGUX PANIC 20000010	PROBLEM SUMMARY: Despite repeated attempts using \K , I have beem
ANSWER SUMMARY: This problem has been resolved in revision 4.30 of DG/UX.	completelu unable to get uucp to send a break to the modem. ANSWER SUMMARY: The problem reported in this STR is a duplicate of
	STR NASC-4937 that you submited for DG/UX
• STR:AUSC000005285 ORIG-ID: REV: 4.20	revision 4.20. Please reference STR NASC-4937 for resolution of this problem.
PROBLEM SUMMARY: X WINDOWS TERMINATED WITHOUT ANY ER- RORS REPORTED	STR:NASC000004930 ORIG-ID: CALTECH-10 REV: 4.11
ANSWER SUMMARY: We would like to help you resolve this problem, but do not have enough information to do so. If you are still seeing this problem, please resubmit an STR with as much detail as possible about the problem.	PROBLEM SUMMARY: Manual Error: "Installing and Managing the DG/UX Operating System" manual on page 4-24 refers to the file "/usr/src/uts/aviion/system" which does not exist.
as much detail as possible about the problem.	ANSWER SUMMARY:
• STR:AUSC000005271 ORIG-ID: REV: 4.20	There is no reference to "/usr/src/uts/aviion/sys- tem" in the latest version of "Installing and Managing the DG/UX Operating System" manual. If this is not the same manual, please submit another STR with the
PROBLEM SUMMARY: CPIO FAILS WITH MEMORY FAULT	part number of the manual.
ANSWER SUMMARY: This problem will be fixed in revision 4.30 of DG/UX.	STR:NASC000004928 ORIG-ID: CALTECH-8 REV: 4.11
• STR:AUSC000005179 ORIG-ID: REV: 4.20	PROBLEM SUMMARY: There is no way (that I could find) of forcing fsck to be run on the root partition. I had desperately wanted to do this at one point (in single user mode).
PROBLEM SUMMARY: SERIAL PRINTER HANGS ON VDA/128 LINE	ANSWER SUMMARY: This functionality exists in DG/UX 4.20, please refer
ANSWER SUMMARY: This problem is resolved in patch 16 to DG/UX 4.20.	to the attached page for information on how to do this.
• STR:AUSC000005170	STR:NASC000004927 ORIG-ID: CALTECH-7 REV: 4.11
ORIG-ID: REV: 4.20	PROBLEM SUMMARY:
PROBLEM SUMMARY: DISKMAN HANGS WHEN CREATING AN LDU ON 179 MB DISK DRIVE	Bad error message in file /usr/include/stdarg/h the message on the line after the first '#if' should say 'stdarg.h' not 'strarg.h'
ANSWER SUMMARY: This problem can not be reproduced by either of two DG support organizations. If you continue to see the problem, please resubmit this STR along with exact instructions on how to reproduce it.	ANSWER SUMMARY: Please upgrade to DG/UX revision 4.20, if this error still persists please submit another STR under that revision, as we could see no evidence of this problem under DG/UX 4.20.
	I description of the second

DG/UX OPER/	TING SYSTEM
• STR:NASC000004926	STR:JAPN000000315 ORIG-ID: NDG 2173 REV: 4.11
ORIG-ID: CALTECH-6 REV: 4.11 PROBLEM SUMMARY: 'su' behaves wierdly. In particular, while 'su - jruser' does behave like login 'su jruser' does not even run jruser's .cshrc (if /etc/passwd has csh as the shell), BUT DOES trash all alias or variables in effect before the su.	PROBLEM SUMMARY: The -c option for sar(1) returns 0 for the 'scall/s' values. ANSWER SUMMARY: This problem is fixed with DG/UX 4.20.
ANSWER SUMMARY: This STR is a duplicate of STR NASC-4964 which you submited under DG/UX revision 4.20. Please reference STR NASC-4964 for resolution of this problem.	 STR:JAPN000000314 ORIG-ID: NDG 2172 REV: 4.11 PROBLEM SUMMARY: The man page for sar(1M) incorrectly shows a crontab entry as: 0 * * * 0,6 su sys -c "/usr/lib/sa/sa1" The example about the to the to the subscripts of the same to the subscripts of the same to the subscripts of the subscripts of the same to the subscripts of the
• STR:NASC000003805 ORIG-ID: MDP-891106 REV: 4.11 PROBLEM SUMMARY: DG/UX does not allow a login name to be a mem- ber of more than one group.	should be : 0 * * * 0,6 su - sys -c "/usr/lib/sa/sa1" ANSWER SUMMARY: The on-line manual page will be corrected with DG/UX 4.30. The hardcopy manual page will be cor- rected with any future printings of the manual.
ANSWER SUMMARY: This problem was fixed in revision 4.20 of DG/UX.	STR:JAPN00000313 ORIG-ID: NDG 2171 REV: 4.11
• STR:JAPN000000351 ORIG-ID: NDG 2208 REV: 4.11	PROBLEM SUMMARY: The man page for sar(1) displays -w as an ar- gumentent but no usage for -w is documented.
PROBLEM SUMMARY: The make command does not recurse properly. ANSWER SUMMARY: This problem cannot be reproduced with the infor- mation given. If you are still experiencing this	ANSWER SUMMARY: The on-line manual page will be corrected with DG/UX 4.30. The hardcopy manual page will be cor- rected with any future printing of the manual.
problem, please resubmit this trouble report along with a copy of the make script used and explicit in- structions for reproducing the problem.	• STR:JAPN000000312 ORIG-ID: NDG 2169 REV: 4.11
• STR:JAPN000000316 ORIG-ID: NDG 2174 REV: 4.11 PROBLEM SUMMARY: The -u option of sar(1) will sometimes produce negative values. ANSWER SUMMARY: This problem is fixed with DG/UX 4.20.	PROBLEM SUMMARY: Calling 'putenv(3)' with a null string, causes sys- tem(3S) to fail. ANSWER SUMMARY: In this example, we placed a pointer to a null string into the environment, and then exec /bin/sh (via sys- tem()). When the shell initializes, if it detects an en- vironment string that isn't of the form < alpha-char > < char > = [value], it issues the "not identifier" message, and terminates ("abc", or "123 = " also do this). This is desired behavior for both putenv() and /bin/sh.

DG/UX OPERA	TING SYSTEM
STR:JAPN000000305 ORIG-ID: NDG 2162 REV: 4.11 PROBLEM SUMMARY:	provided a system dump we can not be absolutely sure of the fix. However since it has not occurred on DG/UX 4.20 we have good reason to believe the problem to be corrected.
Request for enhacement: Let the configuration file for building an AViiON workstation kernel have defaults which are make sense for a workstation in- stead of using the same default configuration file that the AViiON Server uses.	STR:JAPN00000264 ORIG-ID: NDG 2115 REV: 4.11 PROBLEM SUMMARY:
ANSWER SUMMARY: DG does not ship pre-set DG/UX configuration files. We ship prototype files with examples which users can follow when tailoring their own system file. Since the DG/UX release is not specific to one type of machine, the examples cannot be limited to one machine type. Users must edit their system files to correctly reflect their own system's configuration.	Enhancement request for strcmp/strncmp to com- pare the characters as unsigned values. ANSWER SUMMARY: In revision 4.20 of DG/UX, strcmp and strncmp will both handle 8-bit characters correctly.
	• STR:JAPN00000263 ORIG-ID: NDG 2122 REV: 4.11
STR:JAPN000000302 ORIG-ID: NDG 2159 REV: 4.11 PROBLEM SUMMARY:	PROBLEM SUMMARY: A segmentation fault occurs in strcmp/strncmp functions with NULL arguments.
The r option of tar(1) does not write named files on the end of the tape. ANSWER SUMMARY: The problem recorded in this STR is due to a hardware restriction of the Banshee QIC-150 or Maytag 1600 bpi reel-to-reel tape that allows tape to only written at the beginning of tape (BOT) or ap- pended to the End of Recorded Media (EORM). This prevents the r switch on tar from extending a tape file	ANSWER SUMMARY: The string functions are not required by any Stand- ard to validate pointers before dereferencing them. As described in the 4.20 release notice, sec. 5.2.2 item 5, there is a workaround for nonstandard programs that pass NULL pointers to the string functions.
image. See the rmt(7) man page for more information.	STR:WEBO000036040 ORIG-ID: REV: 4.10 PROBLEM SUMMARY:
• STR:JAPN000000294 ORIG-ID: NDG 2150 REV: 4.11	Request for enhancement Please increase the number of pseudo-terminals allowed by DG/UX
PROBLEM SUMMARY: The contents of /etc/exports is cleared by the 'sysadm delfsys' command.	ANSWER SUMMARY: Although the default number of pseudo terminals is 64, the limit is 2048, which should be more than enough for most usage of AViiONs. You can change
ANSWER SUMMARY: This problem is fixed with DG/UX 4.20.	the number available by running "sysadm newdgux" and putting an entry for "PTYCOUNT 32" in the sys- tem file, where you replace 32 with the number of pseudo terminals you want.
• STR:JAPN000000271 ORIG-ID: NDG 2130 REV: 4.11	• STR:UKSC000036332
PROBLEM SUMMARY: Panic 53000001 occures on AV300 series with SCSI devices.	ORIG-ID: /USR SPACE + REV: 4.10 PROBLEM SUMMARY:
ANSWER SUMMARY: You have not had the problem occur with DG/UX 4.20. As you requested I am closing this problem as being fixed with DG/UX 4.20. Since you never	If the available space on a logical disk is below the percentage specified with tunefs(1M), then vi(1) will lose a file's contents if they are written to the logical disk in question by a non-superuser.

DG/UX OPERATING SYSTEM			
ANSWER SUMMARY: Beginning in revision 4.30 of DG/UX, vi will preserve your file if an error occurs while writing a file to disk. The user can then safely (if preserve didn't fail) exit vi and be able to recover his/her file.	• STR:SWE 000000224 ORIG-ID: VI AV DOUGLAS REV: 4.10 PROBLEM SUMMARY: Request for enhancement: If editing a file in vi(1) and trying to save it to disk when the filesystem is full, data will be lost. Instead you should get a warning and		
• STR:UKSC000035969 ORIG-ID: INIT 0 REV: 4.10 PROBLEM SUMMARY: The command 'init 0' does not take the user back to the 'powerdown' prompt as documented in the man pages for init. Either this is a bug or the man pages are incorrect. Please address. ANSWER SUMMARY: The init(1m) man page has been changed to refer to init level 0 as a "Halt" state where the system is at a state which is safe to halt the processor(s). This change is in the DG/UX 4.20 System Manager's Reference Manual as well as the next release of the online man pages.	remain in vi(1). ANSWER SUMMARY: Beginning in revision 4.30 of DG/UX, vi will preserve your file if an error occurs while writing the file to disk. The user can then safely (if preserve didn't fail) exit vi and be able to recover his/her file. • STR:NASC000005195 ORIG-ID: REV: 4.10 PROBLEM SUMMARY: Please provide an answer concerning why a "bus error" message was used in the case of str NASC- 3701.		
STR:UKSC000035968 ORIG-ID: SHUTDOWN REV: 4.10 PROBLEM SUMMARY: RFE: Customer requests that the SHUTDOWN command be enhanced to take the user back to a 'powerdown' prompt, and not the SCM.	ANSWER SUMMARY: The config program had a bug that was causing an invalid memory pointer to be referenced. This type of error will generate the "bus error" message. This does not imply any faults with the hardware. As mentioned in NASC-3701, config will generate a more ap- propriate error message for multiple files in the /usr/etc/master.d directory in the DG/UX 4.30 release.		
ANSWER SUMMARY: We will be unable to fulfill your enhancement at this time due to the serious- ness of insuring a clean sys- tem shutdown. A powerdown state is considered to to be at the SCM prompt which is when it is safe to remove power from your sys- tem. The shutdown command only brings the system to a state where processors can be stopped with the halt command. xterminals are alternative in this case.	 STR:NASC000004623 ORIG-ID: Q961271 REV: 4.10 PROBLEM SUMMARY: Unix find command errors when doing a find on a mounted file system. ANSWER SUMMARY: This problem is fixed in DG/UX 4.30. On pervious revisions, once find encountered an access error, it 		
STR:UKSC000034431 ORIG-ID: REV: 4.10 PROBLEM SUMMARY: DG/UX 4.10 panics when issuing interupt sequen- ces on a VDC terminal. ANSWER SUMMARY: We were unable to reproduce this problem with revision 4.20 of DG/UX. Please up grade your operat- ing system to this revision and contact the Software Support Centre if you continue to experience the problem.	 would incorrectly report the error on files that the user did have access to. Note that over standard NFS, "root" access is translated to "nobody" access (for security reasons). STR:NASC000004465 ORIG-ID: JCSNFS-01 REV: 4.10 PROBLEM SUMMARY: When deleting a SUN Workstation diskless client using the "DELCLIENT" option under SYSADM, all information concerning the client is not removed.		

DG/UX OPERATING SYSTEM			
ANSWER SUMMARY: This will be fixed in Rev 4.20 of DG/UX. The /tftpboot entry for the client will be removed and the "arp -d" command for that client executed. The /etc/ethers entries were made by "sysadm addethers" so should be deleted by "sysadm delethers". The /etc/bootparams entry for that client will also be deleted by "sysadm delclient".	 STR:NASC000004322 ORIG-ID: MIT891226 REV: 4.10 PROBLEM SUMMARY: Reading a Mailbox with mailx fails, leaving the mailbox with CHANGED protection that makes further mail deliveries impossible. ANSWER SUMMARY: This problem will be resolved in revision 4.30 of 		
 STR:NASC000004400 ORIG-ID: MIT-900104-04 PROBLEM SUMMARY: 	DG/UX. The temporary mail file that is set up during mailx, which later becomes the user's mailbox, will be created with the correct permissions.		
The who -h command does not display the host name for remote users as it should. ANSWER SUMMARY: Fixed in DG/UX 4.20.	STR:NASC000004314 ORIG-ID: MIT891222-03 REV: 4.10 PROBLEM SUMMARY: When user1 becomes user2 by way of su, then		
STR:NASC000004399 ORIG-ID: MIT-900104-03 REV: 4.10 PROBLEM SUMMARY: The arrow keys do not work as they should on DG D460 terminals, neither in the Vi editor nor with the	uses mailx to send mail, the mail appears to come from user1, not user2. If mailx is used to read mail, mailx complains that it has no privilege to the mail- box. ANSWER SUMMARY: This is the intended functionality of the product.		
edit read facility. ANSWER SUMMARY: This problem is fixed with DG/UX 4.20. After install- ing DG/UX 4.20 be sure that you have the "ISTRIP" characteristic ducumentated in "termio(7)" set cor- rectly based in whether you are using 7 or 8 bits.	STR:NASC000004313 ORIG-ID: MIT891222-02 REV: 4.10 PROBLEM SUMMARY: When the local delivery program creates a user mailbox in /usr/mail, it sets the group of the file to mail. If this is changed to something else then further mail		
• STR:NASC000004397 ORIG-ID: MIT-900104-01 REV: 4.10 PROBLEM SUMMARY: Trouble with the Accounting package. Monthly reports do not give accurate numbers. ANSWER SUMMARY: Support materials for monthly accounting files were empty. Ran accounting on both DG/UX 4.10 and 4.20 systems and verified correctness of monthly ac- counting. Please insure that accounting was set up correctly and that enough space existed in the /var directory to store accounting info. If problem still per- sists, please submit another STR with the entire var/adm/acct directory.	 ANSWER SUMMARY: This is the intended functionality of this product. STR:NASC000004312 ORIG-ID: MIT891222-01 REV: 4.10 PROBLEM SUMMARY: The mailx -f filename command sometimes freezes when accessing files. When it freezes it produces no output at all and the only way out is ^C. ANSWER SUMMARY: Upon detailed examination of the problem your STR reports we regret to inform you that we are un- able to determine the cause of this problem with the information supplied with the STR. Please feel free to submit another STR when you are able to gather ad- ditional information and materials for our analysis. 		

DG/UX OPERATING SYSTEM			
• STR:NASC000004307 ORIG-ID: ATS-891222 REV: 4.10	• STR:NASC000004177 ORIG-ID: Q933332 REV: 4.10		
PROBLEM SUMMARY: Request for enhancement: If the file system is full, files being edited by vi(1) and attempting to be writ- ten to disk will lose data. Please modify to generate a warning and leave the user in vi(1). ANSWER SUMMARY: Beginning in revision 4.30 of DG/UX, vi will preserve your file if an error occurs while writing the file to disk. The user can then safely (if the preserve didn't fail) exit vi and be able to recover his/her file.	PROBLEM SUMMARY: Fatal Error 3641720, running rev 4.10 of Unix ANSWER SUMMARY: As we discussed in our telephone conversation, we are closing this STR with your approval as the tape you supplied of your system image (/dgux) was un- readable. Should this problem occur again please provide both the system dump and the system image (in "cpio" format) for our analysis.		
• STR:NASC000004215 ORIG-ID: E58032 REV: 4.10 PROBLEM SUMMARY: Command df -t under rev 4.10 of DGUX does not report back the correct inodes. It is truncating the value returned. ANSWER SUMMARY: This problem will be corrected in revision 4.30 of DG/UX.	 STR:NASC000004161 ORIG-ID: MIT-03 REV: 4.10 PROBLEM SUMMARY: The TERM shell variable is not set when login at a terminal AFTER a previously failed login attempt. /etc/profile will set TERM to a system wide default, but login(1) should still be able to set it as specified in /etc/inittab. ANSWER SUMMARY: This problem will be corrected in DG/UX 4.30. 		
• STR:NASC000004209 ORIG-ID: MIT-891214 REV: 4.10 PROBLEM SUMMARY: MAILX refuses to deliver mail to local users that have a capital letter in their login ID. ANSWER SUMMARY: This is a restriction. It is not recommended that you use uppercase letters in login names because the ef- fect on utilities in general is undefined, although it may not be a problem in a few isolated cases.	 STR:NASC000004160 ORIG-ID: MIT-02 REV: 4.10 PROBLEM SUMMARY: Command "ps" produces the output: ps-date: warning, cannot unlink /etc/ps-data ps-data: permission denied. ANSWER SUMMARY: We were unable to reproduce this problem on a standard DG/UX system. However, we were able to reproduce the problem if permissions for /etc were 770 rather than 775 (the default). Please ensure that 		
• STR:NASC000004204 ORIG-ID: BH-891214 REV: 4.10 PROBLEM SUMMARY: A WYSE terminal emulating a Televideo 925, TVI925, does not work in vi(1) at all. There is a termin- fo entry for this terminal, but it does not work. ANSWER SUMMARY: This problem is fixed in revision 4.30 of DG/UX.	 permissions for /etc are 775. STR:NASC000004150 ORIG-ID: Q934754 REV: 4.10 PROBLEM SUMMARY: All devices connected to the syac16 port are hung. The customer has to cycle the system to free up the ports. ANSWER SUMMARY: This problem was previously reported by you in STR NASC-4080 and we are closing this STR as a duplicate. Please reference STR NASC-4080 to track this problem to resolution. As we discussed in our 		

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telephone conversation the materials you sent with this STR will be used for STR NASC-4080.	ANSWER SUMMARY: This problem can be corrected by installing DGUX 4.20 and applying patch DGUX_4.20.01. However,		
• STR:NASC000004080 ORIG-ID: Q929804 REV: 4.10	this patch does induce another problem where in- dividual terminals hang when logging off. This occurs only on the VDA/128 and not the VAC/16. This problem is being investigated under STR NASC 4066		
PROBLEM SUMMARY: User terminals hang at a very intermittent rate.	problem is being invesitgated under STR NASC-4066- 1. You will notified when it is resolved.		
ANSWER SUMMARY: It is our understanding that this problem has not recurred since replacing the VDA/128 controller.	 STR:NASC000004065 ORIG-ID: Q929528 REV: 4.10 		
However, a similar problem could occur under DG/UX revision 4.10. This has been corrected with DG/UX 4.20 and patch DGUX_4.20.01. However, patch DGUX_4.20.01 induces a new problem which can cause terminals to hang after logging off. This problem is being pursued through STR NASC-4080- 1.	PROBLEM SUMMARY: When entering a CTL-C while debugging with 'gdb', it will hang all ports on the VAC/16. A 'kill -9 pid#' of the gdb process, is ignored. The only method to get use of the VAC/16 back is to do a complete shutdown of the system.		
STR:NASC000004076 ORIG-ID: SE001 REV: 4.10 PROBLEM SUMMARY:	ANSWER SUMMARY: As we discussed in our telephone conversation this problem appears to be corrected by patch DGUX_4.20.01 for systems containing only VAC-16's and patch DGUX_4.20.02 for systems containing		
The program "PARANOIA" demonstrated severe floating point deficiencies in AViiON under "C".	VDA-128's or systems with both VDA-128's and VAC- 16's.		
ANSWER SUMMARY: The PARANOIA program uncovered two problems in DG/UX. One was a problem in the pow() math library function and another was denormalized num- ber support. Both of these have been addressed in the release of DG/UX 4.30. Please upgrade to revision	STR:NASC000004013 ORIG-ID: 2 REV: 4.10 PROBLEM SUMMARY: System hung, all terminals excluding the master		
4.30 when it becomes available.	console hung. System Core dump generated using hot key sequence by the Customer (Toronto Stock Exchange).		
STR:NASC000004066 ORIG-ID: Q929530 REV: 4.10 PROBLEM SUMMARY: When exiting an individual terminal connected to a	ANSWER SUMMARY: This problem is fixed by installing DG/UX 4.20 and patch DGUX_4.20.01. This software and patch have been provided to you and has corrected this problem.		
VDA/128, the terminal will hang on logging off. Occurs only when patch DGUX_4.20.01 is applied to a 4.20 system and does not occur on VAC/16.	• STR:NASC000004004		
ANSWER SUMMARY: This problem has been fixed in DG/UX 4.20.02.	ORIG-ID: Q918689 REV: 4.10 PROBLEM SUMMARY:		
• STR:NASC000004066 ORIG-ID: Q929530 REV: 4.10	Customer has installed D210/D211 terminals on a AV5000 DGUX 4.10 system. DGUX 4.1x does not sup- port DG mode so ansi mode must be used. Arrow keys do not work properly while the terminals are in ANSII mode.		
PROBLEM SUMMARY: When someone depresses the off-line/on-line key of a serial printer connected to a VAC/16 or VDA/128 port, it will intermittently hang itself and all other ports connected to the VAC/16 or VDA/128.	ANSWER SUMMARY: This problem is fixed with DG/UX 4.20. After install- ing DG/UX 4.20 be sure that you have the ISTRIP characteristic documented in termio(7) set correctly based on whether you are using 7 or 8 bits.		

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	ing using the input data you supplied we were able to read the input async line and write it to disk at a rate of 9600 baud with no overflow problems.
• STR:NASC000003944 ORIG-ID: DCM-891117 REV: 4.10	
PROBLEM SUMMARY: Request for enhancement, allow the arrow keys work when using the terminal emulator on your AViiON workstation. Currently the arrow keys only work after bring up X Windows. ANSWER SUMMARY: We will consider enhancing the kernel terminal emulator in a future revision of DG/UX for AViiON.	 STR:NASC000003770 ORIG-ID: KF-891102 REV: 4.10 PROBLEM SUMMARY: Doing a XOFF on one terminal contected to a VDC/16 may also stop output on other terminals. ANSWER SUMMARY: This problem is corrected by installing DG/UX 4.20 with patch DGUX_4.20.01. However, patch DOUX 4.20 Of induced by a stalling back of the stal
• STR:NASC000003882 ORIG-ID: Q915363 REV: 4.10 PROBLEM SUMMARY: When a ^z (suspend) is entered during execution of a program under the csh all process/ports on the "syac" will hang. See attached dump tape for system	DGUX_4.20.01 induces another problem that causes terminals to hang after logging off. This occurs only on the VDA-128, not the VDC-16. This second problem is being investigated under STR NASC-3770- 1. You will be notified when this second problem is resolved.
ANSWER SUMMARY: The problem your STR reports is corrected in revision 4.21 of DG/UX.	• STR:NASC000003765 ORIG-ID: REV: 4.10 PROBLEM SUMMARY: A modem connection to TTY01 on a AV300 (Maverick) does not perform the same as a modem port on a DG/UX 4.02 system.
STR:NASC000003874 ORIG-ID: Q903904 REV: 4.10 PROBLEM SUMMARY: After booting AViiON release 4.10 on Maverick, if	ANSWER SUMMARY: This problem will be resolved in revision 4.30 of DG/UX.
an attempt is made to dial into the system, all XTERM and UWM processes are terminated on the graphics console. After recycling Xwindows, a new dial in has no effect.	STR:NASC000003748 ORIG-ID: Q904008 REV: 4.10 PROBLEM SUMMARY:
ANSWER SUMMARY: This problem will be corrected in revision 4.30 of DG/UX.	Problem with system call IOCTL using the GNU c compiler.
• STR:NASC000003831 ORIG-ID: Q910219 REV: 4.10 PROBLEM SUMMARY: The input buffers of lines at 9600 baud are over- flown. This user application will generate a core dump, due to the application not handling the over- flow. The same application runs on other UNIX sys- tems without error. ANSWER SUMMARY:	ANSWER SUMMARY: The sys/_int_att_tty_ioctl.h library has been cor- rected in DG/UX Release 4.30 to define c_cflag of structure termio to be unsigned short which is in com- pliance with SVID. However, for POSIX compliance, c_cflag should be defined as a long (sys/_int_posix_ioctl.h). When compiling your programs, be sure to use the proper switches to achieve POSIX or SVID compliance.
Upon detailed analysis of your problem and ap- plication program, we have determined that the effect your STR describes is caused by various programing errors in your application program. In all of our test-	

• STR:NASC000003701 ORIG-ID: E57862-Q89576 REV: 4.10	• STR:JAPN000000317 ORIG-ID: NDG 2175 REV: 4.10	
PROBLEM SUMMARY: When trying to build a new kernel a "Bus Error" would occur and the core would dump.	PROBLEM SUMMARY: A AV5120 got a PANIC: 1000026 after a diskles AV310C attempted to boot with the AV5120 acting a	
ANSWER SUMMARY: It is incorrect to have a duplicate copy of a master file in /usr/etc/master.d. A bug in config caused it to dump core instead of complaining about a duplicate specification for the first device/protocol/module/vari- able it ran into. Config will be fixed in revision 4.30 of DG/UX so that it correctly prints an error message in this case and exits cleanly instead of dumping core.	its server. ANSWER SUMMARY: This panic is most often caused by hardware though it can be caused by configuring in a device which does not exist. You failed to provide a copy of the kernel image with your system dump. This is needed for further research. Check your hardware and install DG/UX 4.20. If the problem continues, sub- mit another STR and follow the instructions provided in the release notice.	
STR:NASC000003631 ORIG-ID: PT-891024 REV: 4.10 PROBLEM SUMMARY: Request for enhancement on VAC/16 device driver	• STR:JAPN00000297 ORIG-ID: NDG 2155 REV: 4.10	
to allow user to define character buffer size per board and per line.	PROBLEM SUMMARY: Function "tgetch" in libcurses can not always ac-	
ANSWER SUMMARY: This software enhancement cannot be imple- mented in DG/UX software as the buffer size is con- trolled by the Systech board. Therefore, DG/UX is restricted by the Systech hardware.	cept the escape character. ANSWER SUMMARY: This problem is fixed in revision 4.30 of DG/UX.	
• STR:NASC000003418 ORIG-ID: Q878795 REV: 4.10 PROBLEM SUMMARY: Shared memory system call under DGUX 4.10 fails when shmctl(,IPC_RMID,) is done before shmdt(). Note the man page for shmctl(2) states, 'This com- mand has "delete on last detach" semantics.'	• STR:JAPN000000296 ORIG-ID: NDG 2154 REV: 4.10 PROBLEM SUMMARY: The fstat(2) system call returns the incorrect value for st_ctime. The system calls stat(2) and lstat(2) return the correct value for st_ctime. ANSWER SUMMARY: This problem is fixed with DG/UX 4.20.	
ANSWER SUMMARY: This problem is fixed with DG/UX 4.20. With DG/UX 4.20 shmctl(2) behaves as documented in the man page.	STR:JAPN00000255 ORIG-ID: NDG 2112 REV: 4.10 PROBLEM SUMMARY:	
• STR:JAPN00000318	The regex(3X) function works incorrectly.	
ORIG-ID: NDG 2176 REV: 4.10 PROBLEM SUMMARY: There are no library entries for mmap(2) and mun- map(2).	The documentation did not clearly explain the usage of the "\$" in arguments to regex(3X). It has been made clear in the documentation for revision 4.20 of DG/UX. The "\$" will only be treated as a special	
ANSWER SUMMARY: These system calls, mmap and munmap, are not supported in any revision of DG/UX up to and includ- ing revision 4.30.	character when it appears as the last character of the last string argument to regex(3X).	

•	STR:JAPN00000249		
	ORIG-ID: NDG 2107	REV:	4.10

PROBLEM SUMMARY:

The '-e' option for pr(1) outputs an extra space after the tab character on the first line of output after the header line.

ANSWER SUMMARY:

Problem has been resolved and will be available in 4.30

•	STR:JAPN00000248		
	ORIG-ID: NDG 2106	REV:	4.10

PROBLEM SUMMARY:

The '-c' switch for newform(1) does not change append character.

ANSWER SUMMARY:

This is the expected behavior, the man page states, "Command line options are processed in the order specified." This means that the sequence of the options is important. In your example to achieve your expected results the -c must come before the -p.

STR:HOLL000000223
 ORIG-ID:

REV: 4.10

PROBLEM SUMMARY:

Unix utility AWK generates a memory fault

ANSWER SUMMARY:

The problem described is a product restriction in the awk command. Please use nawk as a workaround. A simple way to do this is mv /bin/awk to /bin/awk.old and link /bin/nawk to /bin/awk.

• STR:NASC000005728 ORIG-ID: Q21236 REV:

4.02

PROBLEM SUMMARY:

System hangs after trying to 'kill' some application program processes.

ANSWER SUMMARY:

As we discussed in our telephone conversation, since you are no longer having this problem we are closing this STR with your approval. • STR:NASC000005167 ORIG-ID: SD001 REV: 2.00

PROBLEM SUMMARY:

The emacs package on the tape is incomplete. The emacs editor will execute, but the INFO option within emacs will not work due to missing INFO files.

ANSWER SUMMARY:

Upon detailed examination of the problem your STR reports, we regret to inform you that we are unable to process your STR as it reports a problem with software not supported by Data General. The EMACS software in question was supplied on the "AViiON Contributed Software" tape (Model R006AZN) and is provided on an "as is" basis with no support available from Data General.

GNU CECOMPILER

STR ANSWER REPORT

for DG/UX GNU C FOR AVIION AS OF 08-14-90

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

PROBLEM SUMMARY:

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

ANSWER SUMMARY:

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

•	STR:JAPN00000352	
	ORIG-ID: NDG 2209	REV:

/: 4.20

PROBLEM SUMMARY:

GCC treate '\)' as warning.

ANSWER SUMMARY:

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

GNUCCOMPLER

ONC/NFS SYSTEM

PROGRAMMING NOTES/DOCUMENTATION

NFS (DG/UX) Rev 4.30 [mountd]

Mountd will sometimes exit upon the boot of a diskless client.

It has been reported that on some diskless client installations, mountd will crash leaving a core file in the root directory, thereby not allowing the diskless client to complete the boot process. The mountd could exit at any point of the boot process but it will usually exit in one of two phases of diskless client boot. The first is after tftp is loaded onto the client and the client attempts to mount its root file system to then load its /dgux image. The second is the loading of the /dgux image completes and the client attemps to mount is /usr filesystem.

The current workaround is to load the DG/UX NFS 4.20 mountd and replace the 4.30 mountd. The complete pathname to mountd is /usr/sbin/mountd.

ONC/NES SYSTEM

ONC/NFS SYSTEM STR ANSWER REPORT for DG/UX NFS FOR AVIION AS OF 08-14-90 STR:NASC000006509 4.30 ORIG-ID: Q057748-00 REV: **PROBLEM SUMMARY:** After reving up to DG/UX 4.30, the diskless client appears to boot and then bounces out to SCM. ANSWER SUMMARY: This problem will be fixed in DG/UX NFS 4.31. STR:UKSC000039230 ORIG-ID: DG/UX - EXPOR REV: 4.20 **PROBLEM SUMMARY:** Customer is unsucessfully atempting to export a filesystem from the local disc of a client which was booted over NFS. ANSWER SUMMARY: This problem has been fixed in DG/UX 4.30. STR:UKSC000038306 REV: ORIG-ID: FAILING MOUNT 4.20 **PROBLEM SUMMARY:** Customer receives RPC AUTHENTIFICATION ERROR when attempting to mount a remote file system. ANSWER SUMMARY: The Sniffer dump indicates that the remote machine does not accept mount requests which contain more than 8 group memberships for the user, in this case root, requesting the mount. This behavior requires modification of the other vendor's mountd. STR:NASC00006018 REV: 4.20 ORIG-ID: Q45017 PROBLEM SUMMARY: Clients (av400) of a av4000 lose contact with the server and hang waiting for a response from nfs. ANSWER SUMMARY: The problem your STR reports is corrected in revision 4.30 of TCP/IP.

ONC/NES SYSTEM

DG TCP/IP (DG/UX)

STR ANSWER REPORT

for DG/UX TCP/IP FOR AVIION AS OF 08-14-90

• STR:SWE 000000267 ORIG-ID: AH RSH REV: 4.30

PROBLEM SUMMARY:

RSH DOES NOT RECOGNIZE GROUPID OTHER THAN GROUPID IN /ETC/PASSWD. THE GROUPS SPEC. IN /ETC/GROUPS ARE NEVER LOOKED IN TO AND ARE NOT RECOGNIZED BY RSH.

ANSWER SUMMARY:

Fixed in 4.31 of rshd for TCP/IP. A patched version of rshd for TCP/IP has been supplied to the customer until 4.31 is released.

• STR:NASC000006155 ORIG-ID: Q50935 REV: 4.22

PROBLEM SUMMARY:

If you issue strings sendmail |egrep 'debug | wizard', telnet port 25, you could create a shell that is root owned if you knew wizard password. This poses a potential security problem.

ANSWER SUMMARY:

This problem has been resolved in revision 4.30 of DG/UX TCP/IP.

• STR:NASC00006001		
ORIG-ID: STAR-0001	REV:	4.20

PROBLEM SUMMARY:

TCP/IP is unable to communicate through the IBM 8209 Ethernet to Token Ring Bridge.

ANSWER SUMMARY:

The sniffer traces indicate that SNAP frames are included in unsuccessful ping and telnet attempts from the Token Ring Side to the AViiON system. DG/UX TCP/IP Revision 4.20 does not provide SNAP. We suggest you investigate a method of programming the 8209 bridge to remove the SNAP frames and translate the packets into straight ethernet protocol.

DG TCP/IP (DG/UX)

DG/UX X WINDOWS

PRODUCT DESCRIPTION

DG/UX X Windows is a combination of the X Window System^M, Motif^M, and Looking Glass[®]. The X Window System consists of an X server, a set of X clients, programming libraries, and on-line documentation. The X server manages a raster display and related input devices. X clients are applications which communicate with the X server to perform terminal emulation, window management, and other necessary functions. The subroutine libraries allow programmers to implement applications of their own.

Motif consists of the mwm window manager, a User Interface Language (uil) compiler, subroutine libraries, demos, and on-line documentation. Motif is a derivate product to Open Software Foundation, Inc's OSF/Motif™.

Looking Glass is a desktop manager for the X Window System. It provides a visual environment for running programs and manipulating files. Extensive use of icons and Moif compliance provide power and ease of use. Refer to the Looking Glass Release Notice (085-600204) for details on use and installation of Looking Glass.

SOFTWARE STATUS REPORT

Product: DG/UX X WINDOWS		
Model #: H001A		
Current Rev. 4.30	SSS Shipped: 07/90	
Previous Rev: Supporte Effective Until:	4.20 01/01/91	
Release Notice:	085-600134-02	

DOCUMENTATION

Title	Part Number
AVX-30 Release Notice Framemaker Release Notice/English Looking Glass Release Notice xlib Programming Manual xlib Reference Manual X Windows System User's Guide OSF/Motif Programmer's Reference OSF/Motif Style Guide OSF/Motif Application Environment Specification OSF/Motif Programmer's Guide	085-600144-02 085-600223-00 085-600224-00 069-100227-00 069-100228-01 069-100229-00 069-100325-00 069-100323-00 069-100326-00 069-100324-00
-	

DG/UX X WINDOWS

DG/UX X	WINDOWS
STR ANSWER REPORT for DG/UX X WINDOWS FOR AVIION AS OF 08-14-90 • STR:NASC000006432	STR:UKSC000040180 ORIG-ID: XPOLLYGONFILL REV: 4.20 PROBLEM SUMMARY: X function XPollygonFill() does not always stay
ORIG-ID: Q074624REV:4.22PROBLEM SUMMARY: Xsetroot does not work on a AVX30 if X is brought up on the AV310 server first.If X is brought ANSWER SUMMARY: The problem you reported is fixed in DG/UX X Win- dows for AViiON, revision 4.30.	 within the bounds of the polygon being filled. ANSWER SUMMARY: The problem you reported is fixed in the forthcoming release of DG/UX X Windows for AViiON Systems, revision 4.30. STR:NASC000006168 ORIG-ID: Q053933 REV: 4.20
 STR:NASC000006267 ORIG-ID: Q059317 REV: 4.22 PROBLEM SUMMARY: The data type bool in /usr/include/X11/Xresource.h in NOT defined. It causes a parse error when this file is included in a "C" program ANSWER SUMMARY: The type bool is declared in Xlib.h. According to the Xlib Programming Manual, "To use all the func- tions in the X library, you need to include <x11 xlib.h="">, <x11 xutil.h="">, <x11 keysym.h="">, and <x11 xresource.h="">. Including <x11 xlib.h=""> before <x11 xresource.h=""> will allow your program to compile correctly.</x11></x11></x11></x11></x11></x11> 	PROBLEM SUMMARY: Program from volume four of THE DEFINITIVE GUIDES TO THE X WINDOW SYSTEM, fails with "cur- sor must belong to superclass before it can be changed". ANSWER SUMMARY: Paragraph 4 of the Preface of Volume Four of "The Definitive Guides to the X Window System" says that the book is based on the X11R3 Intrinsics and the Athena widget set. Data General supports the Motif widget set. The Athena widget set and a compatible version of the Xt intrinsics can be obtained from the Contributed Software for AViiON Systems (Model #R006AZN20A).
STR:NASC00006039 ORIG-ID: Q046717 REV: 4.22 PROBLEM SUMMARY: Xmodmap works only about 1/3 of the time when executed from a script inititated by .profile at login time. ANSWER SUMMARY: The problem you reported is fixed in DG/UX 4.30. In DG/UX 4.30, xtdstart() has been modified.	 STR:NASC000006009 ORIG-ID: Q026340 REV: 4.20 PROBLEM SUMMARY: When setting (trying to set) the background of an AVX/30 to fullmoon.xbm the fullmoon never displays. The fullmoon.xbm is in /usr/include/X11/bitmaps, The file size is 665369 and the "sum fullmoon.xbm" is 1308, 1300. ANSWER SUMMARY: The problem you reported has been fixed in DG/UX 4.30.
• STR:UKSC000041455 ORIG-ID: XWINDOWS - XT REV: 4.20 PROBLEM SUMMARY: Customer would like to know the control sequen- ces required to turn the cursor on and off on the xterm vt102 terminal emulation. ANSWER SUMMARY: The xterm client does not provide a program- or user-accessible means for turning the cursor off.	STR:NASC000005914 ORIG-ID: Q26659 REV: 4.20 PROBLEM SUMMARY: We would like to be able to switch between 80 column mode and 132 column on our Aviion system. We are unable to switch from 132 column mode to 80 column mode.

DG/UX X WINDOWS

	millond
ANSWER SUMMARY: The numbers used for the Ps value in the string should be represented by their ASCII octal character code. Therefore use the following strings to change modes 80->132 \033\0133\077\063\0150 132- >80 \033\0133\077\063\0154	the system dump tapes and requested a sample program that reproduces the problem. That program was not supplied. If you continue to experience the problem, please re-submit the STR with a sample program that reproduces the error.
STR:NASC000004957 ORIG-ID: CALTECH-27 REV: 4.20	
PROBLEM SUMMARY: xstart(1) man page, in the example section: 'and owm.' should be 'and uwm'	
ANSWER SUMMARY: The problem you reported will be fixed in DG/UX X Windows for AViiON Systems, revision 4.40.	
• STR:JAPN000000409 ORIG-ID: NDG 2267 REV: 4.20	
PROBLEM SUMMARY: Drawing 16-bit image text characters is slow com- pared to other workstations.	
ANSWER SUMMARY: The performance of drawing 16-bit text characters has been improved in DG/UX X Windows revision 4.30.	
• STR:AUSC000005343 ORIG-ID: REV: 4.20	
PROBLEM SUMMARY: X HANGS WHEN EXPOSING WIDGETS	
ANSWER SUMMARY: We were unable to determine the cause of this problem from the information supplied. We requested a sample program that reproduces the problem, but never received one. If you continue to experience this problem, please re-submit the STR with a sample program that will allow us to reproduce the error.	
• STR:AUSC000005321 ORIG-ID: REV: 4.20	
PROBLEM SUMMARY: X APPLICATION HANGS DURING APPLICATION START UP PHASE	
ANSWER SUMMARY: We were unable to determine the cause of your problem from the information that you supplied. We could not determine the cause of the problem from	

could not determine the cause of the problem from

GREEN HILLS C-88000®

STR ANSWER REPORT

for GREEN HILLS C FOR AVIION UNIX AS OF 08-14-90

• STR:UKSC000041290 ORIG-ID: DG/UX - GHCC REV: 4.30

PROBLEM SUMMARY:

Segmentation Fault (core dumped) when a frotran routine called from a c program tries to write to stdout.

ANSWER SUMMARY:

User error. See the release notice for revision Green Hills F77 revision 1.8.4.9, page 7, section 5.1. There is a list of declarations and conditional calls that must be executed before an F77 routine can be called from C.

STR:NASC000006397
 ORIG-ID: Q72862

REV: 1.84

PROBLEM SUMMARY:

Internal compiler error when trying to compile with the -X89 switch to pack structures with no spaces. Compiler fails under 4.20 and 4.30 of Unix. The line number reported does not always point to the correct line.

ANSWER SUMMARY: This problem has been fixed in Rev. 1.8.5.

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GREEN HILLS C-88000®

GREEN HILLS	FORTRAN-88000®
STR ANSWER REPORT for GREEN HILLS FORTRAN 77 FO AVIION UNI AS OF 08-14-9	<u>×</u>
STR:NASC000006016 ORIG-ID: 900502 REV: 1.8	4
PROBLEM SUMMARY: "List directed" input of double precision number fail to recognize "d" or "D" format.	s
ANSWER SUMMARY: This problem will be resolved in revision 1.8.5 of Greenhills F77. Please upgrade to this revision whe it becomes available.	
• STR:NASC00006015 ORIG-ID: 900501 REV: 1.8	4
PROBLEM SUMMARY: Missing "BERKELEY COMPATIBLE" Libraries from Fortran Package.	n
ANSWER SUMMARY: Green Hills F77 for AViiON Systems does not in clude Berkeley libraries. This product is intended to be ANSI compliant FORTRAN 77, and to include DO MIL-STD 1753 extensions plus almost all DE VAX/VMS FORTRAN extensions. There are no plar to include support for Berkeley libraries in th product.	o D C s
	-

GREEN HILLS FORTRAN-88000®

Mxdb for AViiON [™] SYSTEMS

PRODUCT DESCRIPTION SOFTWARE STATUS REPORT Mxdb for AViiON Systems is a debugger Product: Mxdb for AViiON ™ Systems developed by Data General to integrate debugging services for a wide variety of compiler and interpreter technologies. It provides source- and Model #: R007A machine-level debugging for programmers using LPI Languages, Interactive-COBOL, Green Hills Languages, and GNU C. You may also use Mxdb Current Rev. 1.10 SSS Shipped: 08/08/90 to debug objects produced by other COFFgenerating compilers. Previous Rev: 1.00 Mxdb interprets language expressions for Support Effective Until: 02/01/91 ANSI-C, COBOL85, FORTRAN, PL/I and INTER-ACTIVE-COBOL (ICOBOL). When using Mxdb to debug other languages (such as Pascal), you Release Notice: 085-600206-01 must use one of the Mxdb expression interpreters. See the Users Manual, "Using the Multi-extensible Debugger (Mxdb)", for details.

DOCUMENTATION

Title

Using the Command Processor Addendum to Using Command Processor AViiON™ (093-000706) Using the Multi-extensible Debugger (Mxdb) Using the Multi-extensible Debugger (Mxdb) -- Japan

Part Number

093-000706-00 086-000167-00 093-000710-01 093-000708-01

Mxdb for AVIION M SYSTEMS

MXdb for AVIION MSYSTEMS STR ANSWER REPORT for Multi-extensible Debugger for Aviion Sys AS OF 08-14-90 • STR:WEBO000036277 ORIG-ID: DD.MXDB.STR.1 REV: 1.00 PROBLEM SUMMARY: MXDB version 1.00 does not work the same under DG/UX 4.30 pass 4.4 as it does in DG/UX 4.20. ANSWER SUMMARY: Due to changes in the DG/UX 4.30 kernel, Mxdb revision 1.00 will not run on this revision. Revision 1.10 of Mxdb is required.

Mxdb for AVIION M SYSTEMS

SNA 3270 for AVIION ** SYSTEMS

STR ANSWER REPORT for SNA 3270 FOR AVIION SYSTEMS AS OF 08-14-90

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

PROBLEM SUMMARY:

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

ANSWER SUMMARY:

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

SNA 3270 for AVIION M SYSTEMS

BUSINESS BASIC for 386/ix

STR ANSWER REPORT

for BUSINESS BASIC FOR 386/IX AS OF 08-14-90

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

PROBLEM SUMMARY:

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

ANSWER SUMMARY:

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

BUSINESS BASIC for 386/ix

386/IX BASE RUNTIME MULTI USER STR ANSWER REPORT for 386/IX 'MULTI-USER" AS OF 08-14-90 STR:UKSC000041664 ORIG-ID: 386IX - TAR REV: 2.02 **PROBLEM SUMMARY:** When attempting to back up /usr using tar on 386 running 386ix (2.02) the program memory faults and dumps core. ANSWER SUMMARY: This problem is fixed in 386/ix Revision 2.2. STR:UKSC000040983 ORIG-ID: 386IX - TAR REV: 2.01 **PROBLEM SUMMARY:** The tar command fails and dumps core when the following command is issued from the root: tar cvf /dev/rSA/tape * **ANSWER SUMMARY:** This problem is fixed in 386/ix Revision 2.2. STR:UKSC000037555 **REV**: 2.01 ORIG-ID: 386 DFSPACE S **PROBLEM SUMMARY:** The dfspace script under 386/ix 2.01 does not report disk usage figures for remote file systems. ANSWER SUMMARY: The dfspace script has been enhanced in 386/ix Revision 2.2 to report disk usage figures for remote file systems. STR:AUSC000005362 ORIG-ID: REV: 2.01 **PROBLEM SUMMARY:** CHANGING THE ULIMIT PARAMETER IN 386/IX CAUSES SYSADM RESTORE OPTION TO FAIL ANSWER SUMMARY: This problem will be fixed in revision 2.2.0 of 386/ix.

386/IX BASE RUNTIME MULTIUSER

BUSINESS BASIC for AVIION SYSTEMS

PRODUCT DESCRIPTION

Data General's Business BASIC is a powerful interactive programming language designed for use in producing business applications. Business BASIC lets multiple users program, test, debug and execute programs independently. It provides many of the standard BASIC commands, statements, and functions. It also contains specialized statements and functions that handle file access, format control, and system functions.

Business BASIC operates under Data General's AOS/VS, DG/UX, and DG/RDOS operating systems on Data General machines ranging from the DESKTOP GENERATION Model 10 to the MV/4000 to the AViiON line. It also operates under INTERACTIVE'S 386/ix is an enhanced, high performance UNIX operating system.

Business BASIC supports numerous file structures, including ISAM files, logical files, subfiles within a master file, and linked-available-record files. Under the AOS/VS operating system, it includes an interface to Data General's INFOS II system, which allows Business BASIC statements to manipulate INFOS II files. An interface is also furnished for user-written assembly-language routines under the AOS/VS and DG/RDOS operating systems. Under DG/UX and the 386/ix operating system, an interface is provided for user-written C language routines.

SOFTWARE STATUS REPORT

Product: BUSINESS BASIC FOR AViiON (Unlimited Users)		
Model #: L005A		
Current Rev. 1.02	SSS Shipped: 08/90	
Previous Rev: Support Effective Un	1.01 til: 02/01/91	
Release Notice:	085-600140-02	

DOCUMENTATION

Title

Commands, Statements, and Functions in Business Basic Learning Busness BASIC Subroutines, Utilities, and the Business BASIC CLI Using Business BASIC on DG/UX and 386/ix Systems Part Number

093-000351-01 093-000684-00 093-000389-01 093-000685-01

BUSINESS BASIC for AVIION SYSTEMS

BUSINESS BASIC	for AVIION SYSTEMS
STR ANSWER REPORT	
for BUSINESS BASIC FOR AVIION SYS	S • STR:NASC00006186
AS OF 08-14-9	ORIG-ID: PRO5 REV: 1.01
STR:WEBO000036305 ORIG-ID: BEL90031 REV: 1.0 PROBLEM SUMMARY:	 PROBLEM SUMMARY: Print using "OD", O gives different message on DG/UX Business Basic than it does on AOS/VS Business Basic.
Whendoing a printf of character decimal "174" th terminal get blocked and after 1 minute screen is fu of strange characters.	
ANSWER SUMMARY: This problem with PRINT "<174>" is corrected revision 1.02 of Business BASIC on AViiON system	'n
	STR:NASC000006114 ORIG-ID: PRO3
STR:UKSC000040075 ORIG-ID: STMA 9 STRING REV: 1.0	 PROBLEM SUMMARY: When shutting down RLSX, RLSX reports "RLSX ERROR: bad obit status(2).
PROBLEM SUMMARY: UX/BBASIC 1.01, An STMA 9,0,X\$ returns a strir which is of the form 'userid 8' where userid varies length. In VS/BBASIC X\$ was always 6 bytes in leng which allowed the 6th byte to be interrogated to deter mine the terminal type.	g ANSWER SUMMARY: This problem with RLSX and OBIT is corrected for revision 1.02 of Business BASIC for DG/UX systems.
ANSWER SUMMARY: This problem with the STMA 9,0,X\$ statement corrected in the next revision or update after revisio 1.01 of Business BASIC for AViiON systems.	n PROBLEM SUMMARY:
	Problem with files not being updated when Busi- ness Basic is shutdown.
• STR:NASC000006190 ORIG-ID: PRO9 REV: 1.0	ANSWER SUMMARY: This problem is corrected for revision 1.02 of Busi- ness BASIC for DG/UX systems.
PROBLEM SUMMARY: If a program is loaded and then you attempt to d a LIST "@LPT", it will create a file called @LPT an	o
won't print.	• STR:NASC000006019 ORIG-ID: PRO1 REV: 1.01
ANSWER SUMMARY: This problem with LIST"@LPT" is corrected for revision 1.02 of Business BASIC for DG/UX system	PROBLEM SUMMARY: Problem with using STMC 36 command within Business Basic. Use of this command causes file cor- ruption.
• STR:NASC000006189 ORIG-ID: PRO8 REV: 1.0	ANSWER SUMMARY: As we discussed in our phone conversation, we are unable to reproduce this problem in revision 1.02 of
PROBLEM SUMMARY: In Business Basic, printing a variable defined as 1 characters will cause the screen to revert to revers video and print garbage on screen.	Business Basic for DG/UX systemsx.
ANSWER SUMMARY: This problem is caused by trying to print a chara	• STR:NASC000005995 ORIG-ID: REV: 1.01
ter over 127 decimal. In revision 1.02, the high bit w be stripped off and the problem will no longer occu	

BUSINESS BASIC f	or AVIION SYSTEMS
end application on a second terminal. When the second terminal user logged off Business Basic control returned to login.	• STR:ITAL000000077 ORIG-ID: MI-90-17 (SIA REV: 1.01
ANSWER SUMMARY:	PROBLEM SUMMARY:
This problem with swap space is corrected for	Incorrect GPOS result on OPEN mode 2 (append
revision 1.02 of Business BASIC for DG/UX systems.	mode)
 STR:ITAL00000082	ANSWER SUMMARY:
ORIG-ID: MI-90-22 (DGM REV: 1.01	This is a duplicate of ITAL-71. ITAL-71 is under in-
PROBLEM SUMMARY:	vestigation by development at this time. Please refer
Sysadm gives insufficient values to bring up obit	to that Software Trouble Report for a resolution.
successfully on AViiON systems with AX-BASIC-B	• STR:ITAL00000072
ANSWER SUMMARY:	ORIG-ID: MI-90-13 (SIA REV: 1.01
Revision 1.02 of Business BASIC for AViiON Sys-	PROBLEM SUMMARY:
tems features a new implementation of shared I/O	PRINT "<18>" and PRINT "<19>" (Roll ENABLE
support which no longer requires a large amount of	and DISABLE) NOT SUPPORTED
swap space for obits use. In addition, changes have been made to the way obit and rlsx are executed so that it is no longer necessary to sleep before starting rlsx.	ANSWER SUMMARY: Your request for adding <18> and <19> to the list of supported terminal control characters listed on page 8-14 of the USING BUSINESS BASIC ON DG/UX AND 386/IX SYSTEMS manual will be considered for
• STR:ITAL00000080 ORIG-ID: MI-90-20 (SIA REV: 1.01	the next revision of Business BASIC after revision 1.02.
PROBLEM SUMMARY: Secondary unpend key in AX-BASIC-B environ- ment	STR:UKSC000037827 ORIG-ID: BBUX CURSOR P REV: 1.00
ANSWER SUMMARY:	PROBLEM SUMMARY:
For CTRL-H to interrupt a LIST of a program, you	UX BBASIC 1.00, When using -C switch to trans-
must first set the interrupt key in DG/UX to be CTRL-	late embedded D200 type control sequences,
H. Please see the documentation for this on page 6-	Reverse video is being generated in place of 'NON-
17 of USING BUSINESS BASIC ON DG/UX AND	DIM' fields and apparent problems with cursor ad-
386/IX SYSTEMS (093-000685-01).	dressing.
• STR:ITAL000000079	ANSWER SUMMARY:
ORIG-ID: MI-90-19 (SIA REV: 1.01	This problem is fixed in BBASIC revision 1.02.
PROBLEM SUMMARY: In OPEN Shared mode (0,5) statement PRINT FILE(ch),X\$ don't write after EOF and GPOS state- ment doesn't work correctly. ANSWER SUMMARY: This problem with OPEN FILE in mode 5 and GPOS is corrected in revision 1.02 of Business BASIC on AViiON systems.	STR:NASC000005245 ORIG-ID: Q991057 REV: 1.00 PROBLEM SUMMARY: GPOS returns an error when using it with a chan- nel on which the printer queue file is opened. In AOS/VS, GPOS returns a zero when the file is a queue file. ANSWER SUMMARY: This problem is corrected in revision 1.02. GPOS will return a zero when the file is a queue file, provided that the queue filename is in the DEVICE_MAP file.

ICOBOL for 386/ix

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
The Interactive Cobol compiler, revision 1.60, for 386/ix Systems is an update of the 1.51compiler for 386/ix Systems. It is intended for use on DASHER/386 machines running 386/ix, revision 2.01 or greater. The 1.60 revision of the ICOBOL compiler introduces several new language features and contains corrections to many bugs. It produces code revision 8 .pd and .dd files by default and is upwardly compatible with the ICOBOL 1.51 compiler. The optimizer can be invoked from the compiler. The optimizer can be invoked from the compiler via the -O compiler option or independently on object files via the icopt command. The Interactive COBOL compiler for 386/ix Systems produces code revisions 6, 7 and 8 of Interactive COBOL. The ability to debug a COBOL program requires compilation (with the -d option) into code revision 7 (with the -j7 option) or code revision 8 .pd and .dd files.	Product: INTERACTIVE COBOL COMPILER for 386/ix SYSTEMS Model #: L006A Current Rev. 1.60 SSS Shipped: 08/90 Previous Rev: 1.51 Support effective until: 02/01/91 Release Notice: 085-600209-02

DOCUMENTATION

Title Part Numbers **Runtime/Utilities Release Notice** 085-600211-02 Sort/Merge Utility Release Notice 085-600212-02 **MXDB** Release Notice 085-600210-01 Interactive COBOL Utilities (DG/UX and 386/ix Systems) 069-000358-00 Using Interactive COBOL on DG/UX and 386/ix Systems Interactive COBOL Programmer's Reference 069-000359-02 093-705013-04 Using the Command Processor 093-000706-01 Using the Multi-extensible Debugger (Mxdb) 093-000710-01 Using the Sort/Merge Utility on DG/UX abd 386/ix Systems 093-000681-00

ICOBOL for 386/ix

ICOBOL for AVIION (Unlimited Users)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT	
The Interactive Cobol Compiler, revision 1.60, for AViiON Systems is an update of the 1.51 compiler for AViiON Systems. It is intended for use on AViiON machines running DG/UX, revision 4.20 or greater. The 1.60 revision of the ICOBOL compiler introduces several new language features and contains corrections to many bugs. It produces code revision 8 .pd and .dd files by default and is upwardly compatible with the ICOBOL 1.51 compiler. Also available with this revision is a peephole optimizer designed for the object files generated by the compiler. The optimizer can be invoked from the compiler via the -O compiler option or independently on object files via the icopt command. The Interactive COBOL compiler for AViiON Systems produces code revisions 6, 7 and 8 of Interactive COBOL. The ability to debug a COBOL program requires compilation (with the -d option) into code revision 7 (with the -j7 option) or code revision 8 .pd and .dd files.	Product: INTERACTIVE for AVIION Model #: L007A Current Rev. 1.60 Previous Rev: Support Effective Until: Release Notice:	COBOL COMPILER N SYSTEMS SSS Shipped: 08/90 1.51 02/01/91 085-600205-01
DOCUMENTATION		

Title	Part Numbe
Runtime/Utilities Release Notice	085-600207
Sort/Merge Utility Release Notice	085-600208
MXDB Release Notice	085-600206
Interactive COBOL Programmer's Reference	093-705013
Using Interactive COBOL on DG/UX and 386/ix Systems	069-000359
Using the Sort/Merge Utility on DG/UX and 386/ix Systems	093-000681
Using the Command Processor	093-000706
Using the Multi-Extensible Debugger (MXDB)	093-000710

Part Number

085-600207-01
085-600208-01
085-600206-01
093-705013-04
069-000359-02
093-000681-00
093-000706-01
093-000710-01

ICOBOL for AViiON (Unlimited Users)

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ICOBOL for AVIION	(Unlimited Users)
STR ANSWER REPORT	
for INTERACTIVE COBOL FOR AVIION SYSTEMS	• STR:ITAL000000076 ORIG-ID: MI-90-16 (DGM REV: 1.51
AS OF 08-14-90	PROBLEM SUMMARY: Wrong behaviour of "START" when used with
STR:WEBO000036266 ORIG-ID: BEL90035 REV: 1.51 PROBLEM SUMMARY:	"DELETE" statement in AX-ICOBOL 1.51 ANSWER SUMMARY: The START statement will no longer position to the wrong record when the relational operator is > = and
AX Icobol compiler is generating bad metacode for COMPUTE statement. ANSWER SUMMARY:	the key specified is for a file which has been logically deleted. This problem will be fixed in revision 2.00 of ICOBOL for DG/UX and will be corrected with the first
This will be fixed in revision 1.60 of the compiler. The compiler will no longer generate bad metacode for the COMPUTE statement.	replacement runtime system, 1.60.01, made available on AWARE.
• STR:NASC000006252 ORIG-ID: E58942 REV: 1.51	STR:AUSC000005389 ORIG-ID: REV: 1.51 PROBLEM SUMMARY:
PROBLEM SUMMARY: Receiving error "not a legal COBOL program file" when attempting to execute ICOBOL programs transported from a RDOS ICOBOL system.	Printing from an ICOBOL program under DG/UX causes zombie processes to be left around until icx runtime process terminates
ANSWER SUMMARY: The reason that these few programs will not ex- ecute with Interactive COBOL on DG/UX is because the runtime system performs a sanity check to ensure that the object files being executed are not corrupt. This is done by comparing the compilation size recorded in the .pd file to the actual file size. If the sizes don't agree or aren't a multiple of each other, then an error is reported.	ANSWER SUMMARY: This problem is corrected in revision 1.60 of Inter- active COBOL for DG/UX and 386/ix Systems.
• STR:NASC000006251 ORIG-ID: E58939 REV: 1.51	
PROBLEM SUMMARY: Program aborting with "fatal runtime system error", displays 2 lines of garbage, returns the user to the shell prompt and creates a core dump. Need core dump analyzed to determine cause of error.	
ANSWER SUMMARY: The problem is not reproducible with revision 1.60 of Interactive COBOL for DG/UX and revision 4.30 of DG/UX. Please upgrade to these latest revisions of the software; if you still experience a problem, then sub- mit another STR.	

ICOBOL for AVIION (Unlimited Users)		
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INTERACTIVE COBOL RUNTIME for 386/ix

PRODUCT DESCRIPTION

Interactive Cobol (ICOBOL) is a popular language for small business systems products as well as for business systems in general. It is one of the languages offered for the Data General Commercial Language Systems product line and is in wide use throughout the industry. Interactive Cobol is an ANSI 74 level 1 implementation with many level 2 features and DG extensions. This revision also includes some COBOL 85 features.

Interactive Cobol for 386/ix Systems is an implementation of the AOS/VS ICOBOL product, for use on Dasher/386 and compatible machines running 386/ix, Revision 2.01 or later. The product is compatible with the AOS/VS ICOBOL product line and offer UNIX specific features.

Some aids for porting applications are also included in this revision of the ICOBOL RUNTIME SYSTEM. Mechanisms included allow translation of AOS/VS filenames and switches to follow UNIX conventions, optional acceptance of carriage return/newline pair as a single delimiter for line sequential records, conversion of filenames to either all uppercase or all lowercase characters, and support of various terminal types/modes.

Revision 1.60 of the Interactive Cobol Runtime System will execute code revisions 4, 6, 7 and 8 and work with minasam files supported by ICAOS/VS and IC/MSDOS revisions 1.50 or later.

DOCUMENTATION

Title

Sort/Merge Utility Release Notice Interactive COBOL Utilities Using Interactive COBOL on DG/UX and 386/ix Systems Interactive COBOL Programmer's Reference Using the Sort/Merge Utility on DG/UX 386/ix Systems

SOFTWARE STATUS REPORT

Product: INTERACTIVE COBOL RUN -TIME/UTILITIES for 386/ix SYSTEMS

Model #: L014A

Current Rev. 1.60

Previous Rev: Support effective until:

Release Notice:

085-600211-02

02/01/91

1.51

SSS Shipped: 08/90

Part Number

085-600212-02 069-000358-00 069-000359-02 093-705013-04 093-000681-00

INTERACTIVE COBOL RUNTIME for 386/ix

INTERACTIVE COBO RUNTIME OF AVION

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT		
Interactive Cobol (ICOBOL) is a popular lan- guage for small business systems products as well as for business systems in general. It is one of the languages offered for the Data General Commercial Language Systems product line and is in wide use throughout the industry. Interactive Cobol is an ANSI 74 level 1 implementation with many level 2 features. This revision also includes some COBOL 85 features. Interactive Cobol for AViiON Systems is an im- plementation of the AOS/VS ICOBOL product for use on AViiON machines running DG/UX Revision 4.20 or later. This product is compatible with AOS/VS ICOBOL product line and offers UNIX- specific features. Some aids for porting applications are also in- cluded in this revision of the ICOBOL RUNTIME SYSTEM. Mechanisms included allow translation of AOS/VS filenames and switches to follow UNIX conventions, optional acceptance of carriage return/newline pair as a single delimiter for line se- quential records, conversion of filenames to either all uppercase or all lowercase characters, and support of various terminal types/modes. Revision 1.60 of the Interactive COBOL Run- time system will execute revisions 4, 5, 6, 7 and 8, and work with Minisam files supported by ICAOS/VS and IC/MSDOS revisions 1.50 and later.	Product: INTERACTIVE UTILITIES for AVIION SY Model #: L015A Current Rev. 1.60 Previous Rev: Support effective until: Release Notice:		

DOCUMENTATION

Title

Part Number Sort/Merge Utility Release Notice 085-600208-01 Interactive COBOL Utilities 069-000358-00 Using Interactive COBOL on DG/UX and 386/ix Systems 069-000359-02 Interactive COBOL Programmer's Reference 093-705013-04 Using the Sort/Merge Utility on DG/UX and 386/ix Systems 093-000681-00

INTERACTIVE COBOL RUNTIME for AVIION

	RUNTIME for AVIION
STR ANSWER REPORT	
for INTERACTIVE COBOL FOR AVIION (RUNTIME)	
AS OF 08-14-90	
• STR:ITAL00000069 ORIG-ID: MI-90-10 (CAR REV: 1.60	
PROBLEM SUMMARY: COMPILE TIME ERROR under DG/UX, but not under AOS/VS II	
ANSWER SUMMARY: The problem will be fixed in revision 2.00 of ICOBOL on DG/UX. It will also be corrected in the first replacement compiler, 1.60.01, made available on AWARE.	

INTERACTIVE COBOL RUNTIME for AVIION

LPI COBOL-85 for AVIION

STR ANSWER REPORT

for LPI COBOL FOR AVIION AS OF 08-14-90

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

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

ANSWER SUMMARY:

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

LPI COBOL-85 for AVIION

NETWARE TRANSPORT for AVIION ** SYSTEMS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
NetWare Transport for AViiON Systems is licensed to the AViiON server platform. It includes Novell transport software for DG/UX; NetBois in- terface libraries for DG/UX; Novell transport software for DOS, Windows/386, and OS/2; Net- Bois interface libraries for DOS, Windows/386, and OS/2. Two model numbers are available for NetWare Transport for AViiON Systems, C021AZS for AViiON 5000/6000 series servers. Additionally, in order to use the file and print services available, you must have software on your workstation to access them. This package contains software to prepare the client worksta- tions to communicate to a NetWare server sys- tem.	Product: NETWARE TRANSPORT for AViiON™ SYSTEMS Model #: C021A Current Rev. 1.00 SSS Shipped: 07/06/90 Update 01 SSS Shipped: 08/90 Release Notice: 085-001162-00 Update Notice: 078-000386-00

DOCUMENTATION

Title

NetWare for AViiON Series Systems Concepts NetWare for AViiON Series Systems Installation Manual NetWare for AViiON Series Systems System Administration NetWare for AViiON Series Systems User Book NetWare for AViiON Series Systems Utilities NetWare for AViiON Series Systems Worksheets Programming with Transport Interfaces for AViiON Series Systems

Part Number

069-000483-00 069-000488-00 069-000487-00 069-000485-00 069-000486-00 069-000484-00 069-000510-00 069-000482-00

NETWARE TRANSPORT for AVIION SYSTEMS

RPC TOOL for AVIION SYSTEMS (TCP/IP) (U.S. & CANADA)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
Release 1.00 is the first release of the RPCTOOL for AViiON systems product. RPC TOOL for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop dis- tributed applications for a network by using Remote Procedure Call (RPC) technoloby. The interface to the RPC TOOL 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 ver- sion of the Netwise RPC TOOL. Model numbers C065A and A072A of the RPC TOOL for AViiON Systems software consist of the following four main components. Model numbers C067A and A074A of the RPC TOOL for AViiON Sys- tems software consist of the Network Library com- ponent only. The following is a list of the four key features of the RPC TOOL for AViiON Systems Release 1.00: 1. Provides 100% of the communication software required to extend a conventional proce- dure call over the network. 2. Uses the standard syntax of your develop- ment programming Language. 3. Allows applications built with our software to integrate computers, operating systems, and net- works from multiple vendors by supporting both proprietary and international standards. 4. Requires no major adjustments to your development environment or methodology.	Product: RPC TOOL for AViiON SYSTEMS (TCP/IP) (U.S. & Canada) Model #: C065A Current Rev. 1.00 SSS Shipped: 08/90 Release Notice: 085-001163-00

DOCUMENTATION	
Title	Part Number
The C Language RPC TOOL Reference for DG/UX TO The C Language RPC TOOL User Guide The Quick Start Guide	CP/IP on AViiON Series 069-000494-00 069-000489-00 069-000490-00

The following changes must be made to the RPC TOOL for AViiON Systems manuals. The C Language RPC TOOL Reference for DG/UX TCP/IP on AviiON Series Systems (069-000494-00)

On Page 34 in section 4.1.4 (Connection Identifier Limit), the maximum number of simultaneous connections supported by the Network Library is incorrectly stated. The last sentence in this section should read "Regardless of your configuration, the Network Library imposes an absolute limit of 256 simultaneously opened connection identifiers."

RPC TOOL for AVIION SYSTEMS (TCP/IP) (U.S. & CANADA)

RPC TOOL for AVIION SYSTEMS (TCP/IP)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
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) technoloby. The interface to the RPC TOOL AViiON Systems is derived from standard C syntax and declara- tions. Likewise, all output is C source code, capable of being compiled by your C compiler. RPC TOOL for AViiON Systems is a ported ver- sion of the Netwise RPC TOOL. Model numbers C065A and A072A of the RPC TOOL for AViiON Systems software consist of the following four main components. Model numbers C067A and A074A of the RPC TOOL for AViiON Systems software consist of the Network Library component only. The following is a list of the four key features of the RPC TOOL for AViiON Systems Release 1.00: 1. Provides 100% of the communication software required to extend a conventional proce- dure call over the network. 2. Uses the standard syntax of your develop- ment programming Language. 3. Allows applications built with our software to integrate computers, operating systems, and net- works from multiple vendors by supporting both proprietary and international standards. 4. Requires no major adjustments to your development environment or methodology.	Product: RPC TOOL for AViiON SYSTEMS (TCP/IP) (non U.S. & Canada) Model #: C072A Current Rev. 1.00 SSS Shipped: 08/90 Release Notice: 085-001163-00

DOCUMENTATION

Title	Part Number
The C Language RPC TOOL Reference for DG/UX TCP/IP on AViiON Series	069-000494-00
The C Language RPC TOOL User Guide	069-000489-00
The Quick Start Guide	069-000490-00

The following changes must be made to the RPC TOOL for AViiON Systems manuals. The C Language RPC TOOL Reference for DG/UX TCP/IP on AViiON Series Systems (069-000494-00)

On Page 34 in section 4.1.4 (Connection Identifier Limit), the maximum number of simultaneous connections supported by the Network Library is incorrectly stated. The last sentence in this section should read "Regardless of your configuration, the Network Library imposes an absolute limit of 256 simultaneously opened connection identifiers."

RPC=100LforAVIION SYSTEMS (TCP/IP)

UX/TCP/IP NETWORK LIBRARY (U.S. & CANADA)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
 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 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 C065A and A072A of the RPC TOOL for AViiON Systems software consist of the following four main components. Model numbers C067A and A074A of the RPC TOOL for AViiON Systems software consist of the RPC TOOL for AViiON Systems Release 1.00: The following is a list of the four key features of the RPC TOOL for AViiON Systems Release 1.00: Provides 100% of the communication software required to extend a conventional procedure call over the network. Uses the standard syntax of your development programming Language. Allows applications built with our software to integrate computers, operating systems, and networks from multiple vendors by supporting both proprietary and international standards. Requires no major adjustments to your development environment or methodology. 	Product: UX/TCP/IP NETWORK LIBRARY (U.S. & Canada) Model #: C067A Current Rev. 1.00 SSS Shipped: 08/90 Release Notice: 085-001163-00

DOCUMENTATION

DOCUMENTATION	
Title	Part Number
The C Language RPC TOOL Reference for DG/UX TCP/IP on AViiON Series The C Language RPC TOOL User Guide	069-000494-00 069-000489-00
The Quick Start Guide	069-000489-00

The following changes must be made to the RPC TOOL for AViiON Systems manuals. The C Language RPC TOOL Reference for DG/UX TCP/IP on AViiON Series Systems

(069-000494-00). On page 34 in section 4.1.4 (Connection Identifier Limit), the maximum number of simultaneous connections supported by the Network Library is incorrectly stated. The Last sentence in this sec-

tion should read "Regardless of your configuration, the Network Library imposes an absolute limit of 256 simultaneously opened connection identifiers."

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UX/TCP/IP

UX/TCP/IP NETWORK LIBRARY (Non U.S. & CANADA)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
 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) technoloby. The interface to the RPC TOOL 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 C065A and A072A of the RPC TOOL for AViiON Systems software consist of the following four main components. Model numbers C067A and A074A of the RPC TOOL for AViiON Systems software consist of the RPC TOOL for AViiON Systems Release 1.00: 1. Provides 100% of the communication software required to extend a conventional procedure call over the network. 2. Uses the standard syntax of your development programming Language. 3. Allows applications built with our software to integrate computers, operating systems, and networks from multiple vendors by supporting both proprietary and international standards. 4. Requires no major adjustments to your development environment or methodology. 	Product:UX/TCP/IP NETWORK LIBRARY (non U.S. & Canada)Model #:C074ACurrent Rev.1.00SSS Shipped:O8/90085-001163-00

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	Title	Part Number
	The C Language RPC TOOL Reference for DG/UX TCP/IP on AViiON Series The C Language RPC TOOL User Guide The Quick Start Guide	069-000494-00 069-000489-00 069-000490-00

The following changes must be made to the RPC TOOL for AViiON Systems manuals. The C La nguage RPC TOOL Reference for DG/UX TCP/IP on AViiON series Systems (069-00494-00).

On page 34 in section 4.1.4 (connection Identifier Limit), the maximum number of simultaneous connections supported by the Network Library is incorrectly stated. The last sentence in this section should read "Regardless of your configuration, the Network Library imposes an absolute limit of 256 simultaneously opened connection identifiers."

UX/TCP/IP NETWORK LIBRARY (Non U.S. & C

C+++ (AT&T) - for SERVERS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
 This release of C+ + is a full implementation of AT&T's C+ + 2.0 (commonly called Cfront). C+ + (AT&T) runs on Data Generals's AViiON family of RISC processors, running the DG/UX operating system. This release of C+ + (AT&T) comprises the C+ + Language preprocessor, streams and complex arithmetic Libraries, associated utilities and documentation. AT&T's C+ + preprocessor serves as the de facto standard for the C+ + Language. The following are features of C+ + on AViiON: * Complete support for the Motorola 88100. * Support for OCS calling standard, including stdargs. * Support for all DG/UX system calls. * Full optimization for developed code. * Support for both GNU C and Green Hills compilers 	Product: C++ (AT&T) for AViiON SYSTEMS for SERVER Model #: L018A Current Rev. 2.00 SSS Shipped: 03/90 Update 01 SSS Shipped: 07/90 Release Notice: 085-600221-00 00 Update Notice: 078-600035-00

DOCUMENTATION

Title	Part Number
AT&T C + + Language System Library Manual	069-100340-00
AT&T C + + Language System Product Reference Manual069-100342-00 AT&T C + + Language System Release Notes AT&T C + + Language System Selected Readings	069-100343-00 069-100341-00

C++ (AT&T) - for SERVERS

C++ (AT&T) - for WORKSTATIONS

PRODUCT DESCRIPTION SOFTWARE STATUS REPORT This release of C + + is a full implementation Product: C++ (AT&T) for AViiON SYSTEMS of AT&T's C + + 2.0 (commonly called Cfront). WORKSTATION C++ (AT&T) runs on Data Generals's AVIION family of RISC processors, running the DG/UX Model #: L019A operating system. This release of C + + (AT&T)comprises the C++ Language preprocessor, Current Rev. 2.00 SSS Shipped: 03/90 streams and complex arithmetic Libraries, as-Update SSS Shipped: 07/90 01 sociated utilities and documentation. Release Notice: AT&T's C + + preprocessor serves as the de 085-600221-00 facto standard for the C++ Language. The fol-Update Notice: 078-600035-00 lowing are features of C + + on AViiON: * Complete support for the Motorola 88100. * Support for OCS calling standard, including stdargs. * Support for all DG/UX system calls. * Full optimization for developed code. * Support for both GNU C and Green Hills compilers.

DOCUMENTATION

Title	Part Number
AT&T C++ Language System Library Manual	069-100340-00
AT&T C++ Language System Product Reference Manual069-100342-00 AT&T C++ Language System Release Notes AT&T C++ Language System Selected Readings	069-100343-00 069-100341-00

CHERNER (AT &T) FOR WORKSTATIONS

GNU CHEER COMPLER OF AVIION SYSTEMS

PRODUCT DESCRIPTION

SOFTWARE STATUS REPORT

SYSTEMS

Model #: L021A

Current Rev. 1.37

Release Notice:

Product: GNU C + + COMPILER for AVIION

SSS Shipped: 07/90

085-600237-00

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 the C++ language, including the 'asm', 'typeof', and 'inline' constructs. GNU C++ adheres to the 88open Object Compatibility Standard [OCS] in terms of assembler code generated, calling sequence, and alignment.

This release of GNUC++ is based on Revision 1.37 of the compiler from the Free Software Foundation. The GNU General Public Licence provides you with the opportunity to obtain source code for the GNU software for the AViiON. The source for this release will be distributed with other GNU sources and tools as Data General Model #R028A.

DOCUMENTATION

Title

AT&T C+ + Language System Library Manual

Part Number

069-100340-00

GNU C++ COMPILER for AVIION SYSTEMS

MICRO FOCUS COBOL-2M

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT	
The Micro Focus COBOL/2 system consists of a compiler, native code generator, run-time sys- tem, linker, ANIMATOR, and Conversion Series 3 and 5 utilities. ANIMATOR is an interactive program debug- ging tool for use with Micro Focus COBOL/2 programs. Conversion Series 3 is a Micro Focus utility designed to assist in the migration of applications from the RM/COBOL environment to the Micro Focus COBOL/2 environment. Conversion Series 5 is a micro Focus utility designed to assist in the migration of DG Interac- tive COBOL applications to the Micro Focus COBOL/2 environment.	Product: MICRO FOCUS COBOL-2 Model #: L013A Current Rev. 1.1.2 SSS Shipped: 06/90 Release Notice: 085-600234-00	

DOCUMENTATION

Title	Part Number
Micro Focus COBOL/2 FORMS-2 Release Notice	085-600236-00
Micro Focus COBOL/2 Run-time Environment Release Notice	085-600235-00
Getting Started with Micro Focus COBOL/2	069-100258-00
Micro Focus COBOL/2 ANIMATOR Operating Guide	069-100260-00
Micro Focus COBOL/2 Compatibility Supplement	069-100262-00
Micro Focus COBOL/2 Conversion Series 3 Operating Guide	069-100263-00
Micro Focus COBOL/2 Conversion Series 5 Operating Guide	069-100264-00
Micro Focus COBOL/2 Error Messages Manual	069-100259-00
Micro Focus COBOL/2 FORMS-2 Utility Manual	069-100261-00
Micro Focus COBOL/2 Language Reference Manual	069-100255-00
Micro Focus COBOL/2 Operating Guide	069-100257-00
Micro Focus COBOL/2 Pocket Guide	069-100256-00
Micro Focus COBOL/2 Release Notes for DG/UX Systems	069-100355-00
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MICRO EOCUS EORMS#2

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT	
Micro Focus FORMS-2 is a development tool for the interactive creation and modification of data entry screens for COBOL/2 application programs.	Product: MICRO FOCUS FORMS-2 Model #: R008A Current Rev. 1.1.2 SSS Shipped: 06/90	
	Release Notice: 085-600234-00	

DOCUMENTATION

Title	Part Number
Micro Focus COBOL/2 Run-Time Environment Release Notice Micro Focus COBOL/2 Release Notice Getting Started with Micro Focus COBOL/2 Micro Focus COBOL/2 ANIMATOR Operating Guide Micro Focus COBOL/2 Compatibility Supplement Micro Focus COBOL/2 Conversion Series 3 Operating Guide Micro Focus COBOL/2 Conversion Series 5 Operating Guide Micro Focus COBOL/2 Error Messages Manual Micro Focus COBOL/2 FORMS-2 Utility Manual Micro Focus COBOL/2 Language Reference Manual	085-600235-00 085-600234-00 069-100258-00 069-100260-00 069-100262-00 069-100263-00 069-100264-00 069-100259-00 069-100255-00
Micro Focus COBOL/2 Operating Guide	069-100257-00
Micro Focus COBOL/2 Pocket Guide Micro Focus COBOL/2 Release Notes for DG/UX System	069-100256-00 069-100355-00
micro r deus de de la release notes for Da/DA dystem	003-100000-00

MICRO FOCUS FORMS-2