

**DG/UX NEWSLETTER**

**UPDATE 6 - 1990**

**092-000667 -01**



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## INTRODUCING THE SOFTWARE NEWSLETTER

### EDITOR'S CORNER

Dear Customers,

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

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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.

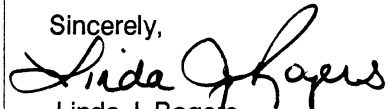
We apologize for any inconvenience this may have caused you.

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,



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 5.25-inch 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 microprocessor and a commercial-grade version of UNIX® system-based software called DG/UX.

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.  
 3 + Open is a trademark of 3Com Corporation.  
 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.

**HOT OFF THE PRESS!**

## NEW PRODUCTS - IN BRIEF

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

Description	Part Number
<b>Applications Software</b>	
INTELLIBOOK	012-003425-00
INTELLIBOOK Product Brief	012-003625-01
BASELINK	012-003410-02
<b>AviiON Systems</b>	
AVX-30 X-Window	012-003579-00
AV 300 Workstation	012-003496-02
AV 400 Workstation	012-003622-02
AV 400 Technical Brief	012-003677-01
AV 4000 Multi-User System/Server	012-003773-00
AV 5010 Multi-User System/Server	012-003774-00
AV 5200 Multi-User System/Server	012-003497-04
AV 6000 SERIES	012-003589-01
DG/UX for AViiON	012-003568-02
DG/AVLIB Graphics Library	012-003783-00
PAD for AViiON	012-003743-00
SDLC AViiON	012-003764-00
SNA 3270 AViiON	012-003767-00
SNA AViiON	012-003763-00
SNA RJE AViiON	012-003768-00
X.25 for AViiON	012-003744-00
FRAME MAKER	012-003769-00
TCP/IP for AViiON	012-003852-00
<b>Business Automation</b>	
CEO OBJECT OFFICE	012-003533-00
CEO OPTICAL ARCHIVER	012-003617-00
CEO SCANNER	012-003537-00
<b>Communications Software</b>	
DG/PCI	012-003029-04
MS-NET	012-003028-01
ONC/NFS	012-003550-01
TCP/IP	012-002333-05
COMMUNICATIONS Server	012-003698-00
NETWARE For AViiON System	012-003757-00
NETWARE For MV Family System	012-003795-00
NETWISE RPC Tool	012-003792-00
NOVELL ADVANCED NETWARE V2.15	012-003791-00
<b>Communications Hardware</b>	
TermServer	012-003278-02
Model 5517 Series VMEbus/IEEE-488 Bus Interface	012-003846-00
Model 5089/5099 Series VMEbus/DR-11 Interface	012-003843-00
<b>Input/Output</b>	
Model 5069 Series VMEbus Vector Processors	012-003844-0

### Languages

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

### Mass Storage

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

### Operating Systems

AOS/VS II	012-003382-01
386/ix	012-003352-02

### PC/Workstations

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

### Peripherals

6594 DOT MATRIX	012-003491-00
DATASOUTH Printer 10692	012-003755-00
DATASOUTH Printer 10693	012-003754-00
DATASOUTH Printer 10696	012-003753-00
MOD 5070D Optical Disk	012-003062-00
MOD 6552 Optical Disk	012-003529-00
WALKABOUT Terminal	012-003514-01
OKIDATA MICROLINE 320/321	012-003811-00
150MB QIC Tape Drive	012-003761-01

### Processors

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

### Services

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

### Systems Software

MXDB	012-003650-00
OpenPC	012-003632-00

**NEW PRODUCTS - IN BRIEF**



**SPOTLIGHT ON TRAINING****CUSTOMER EDUCATION SCHEDULE****TYPES OF TRAINING OFFERED BY EDUCATIONAL SERVICES**

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

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

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

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

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

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

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

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

##### Hardware Courses

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

##### Software Courses

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 Seminars

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

<b>SPOTLIGHT ON TRAINING</b>
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**ATLANTA Educational 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

**Technical Seminars**

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

**CHICAGO Educational Center****Software Courses**

Date	Course Title	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 Seminars**

Date	Course Title	Course #	Days
Oct 2	INFOS Rev 6:New Performance Options	SM206	3 NEW

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

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 Seminars**

Date	Course Title	Course #	Days
Oct 3	X Windows Programming for C Programmers	SM488	3
Oct 8	OSF/Motif Programming for C Programmers	SM588	3
Oct 16	TermServer/TermManager Install & Configure	SM417	4
Nov 12	INFOS Rev. 6 New Performance Options	SM206	3 NEW

**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

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**SPOTLIGHT ON TRAINING**

**DG/UX**

**STR ANSWER REPORT**  
for International Multi-User DG/UX  
AS OF 08-14-90

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

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

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

**STR ANSWER REPORT**  
for DG/UX U.S. Administration  
AS OF 08-14-90

● STR:NASC000006361  
ORIG-ID: Q66673                      REV:    4.02

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

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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



**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.

**DG/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 clears 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 OPERATING SYSTEM

**ANSWER SUMMARY:**

Upon detailed examination of the problem your STR reports we regret to inform you that we are unable 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 required information and materials listed on the attached page.

- 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.

- 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:AUSC000005361  
ORIG-ID:    REV:      4.21

**PROBLEM SUMMARY:**

PANIC 2000010

**ANSWER SUMMARY:**

This problem will be resolved in revision 4.30 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 Windows for AViiON Systems, revision 4.30.

- STR:WEBO000036345  
ORIG-ID: NOT SUPPLIED                      REV:      4.20

**PROBLEM SUMMARY:**

Parallel printer, while in the middle of a large printout, begins printing garbage. All subsequent printouts sent to the parallel printer result in garbage (a few random characters) being printed.

**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, lp model file being used, and a dump taken before, rather than after, a system reset.

- STR:WEBO000036276  
ORIG-ID: LL.POLL.STR.1                      REV:      4.20

**PROBLEM SUMMARY:**

The poll(2) system call does not work as documented.

**ANSWER SUMMARY:**

This problem will be fixed in revision 4.31 of DG/UX.

- STR:WEBO000036226  
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: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

**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.

**ANSWER SUMMARY:**

This problem has been fixed in DG/UX 4.30

- 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\_IOCTL1\_MESSAGE().

**ANSWER SUMMARY:**

This problem has been fixed in DG/UX Release 4.30.

- STR:WEBO000036191  
ORIG-ID: RJE001                                      REV:     4.20

**PROBLEM SUMMARY:**

printf() causes process to crash if dereferencing a NULL pointer.

**ANSWER SUMMARY:**

Dereferencing 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:WEBO000036185  
ORIG-ID:    REV:     4.20

**PROBLEM SUMMARY:**

While using cu, if you type ~ % and then hit return, cu hangs and then displays "hangup", leaving the terminal in raw mode. The user expects to see the ~ (continue) message instead.

**ANSWER SUMMARY:**

This problem will be fixed in revision 4.30 of DG/UX.

- STR:WEBO000036184  
ORIG-ID:    REV:     4.20

**PROBLEM SUMMARY:**

The sigrelse system call is not reachable in the m88kbc target environment.

**ANSWER SUMMARY:**

This was an omission. It has been corrected in 4.30.

- STR:WEBO000036152  
ORIG-ID: 3    REV:     4.20

**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 customer. If it recurs, please resubmit this STR.

- STR:WEBO000036151  
ORIG-ID: 3    REV:     4.20

**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.

- STR:WEBO000036137  
ORIG-ID:    REV:     4.20

**PROBLEM SUMMARY:**

In libnsl\_s.a, t\_rcv improperly sets the T\_MORE flag when requesting 0 length data and receiving 0 length data

**ANSWER SUMMARY:**

This problem has been fixed in DG/UX 4.30

- STR:WEBO000036136  
ORIG-ID:    REV:     4.20

**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 OPERATING SYSTEM

"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:UKSC000039933  
ORIG-ID: /USR/INCLUDE/                      REV:      4.20

**PROBLEM SUMMARY:**

The header file /usr/include/math.h contains a forward declaration for atof which does not give the argument 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 release of DG/UX.

- STR:UKSC000039674  
ORIG-ID: DG/UX - LOGIN                      REV:      4.20

**PROBLEM SUMMARY:**

A user mistypes 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.

- STR:UKSC000039505  
ORIG-ID: AV6000 HANG                      REV:      4.20

**PROBLEM SUMMARY:**

AV6000 terminal lines have hung on two occasions.

**ANSWER SUMMARY:**

This problem will be fixed in revision 4.31 of DG/UX.

- 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 command line argument. Since ps has a large buffer for command line displays, part of the sysadm menu appears in the the ps display.

- STR:UKSC000039125  
ORIG-ID: SIGALRM                              REV:      4.20

**PROBLEM SUMMARY:**

Program which issues a setitimer() function call to control the time before a SIGALRM is generated, frequently 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  
ORIG-ID: DG/UX ,/ETC/T                      REV:      4.20

**PROBLEM SUMMARY:**

Customer has modified /etc/TIMEZONE by commenting 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 /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:**

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.

## DG/UX OPERATING SYSTEM

- STR:UKSC000038000  
ORIG-ID: TAR ERROR                      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.

- STR:UKSC000037739  
ORIG-ID: PANIC 4000110                  REV:     4.20

**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: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: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:UKSC000037499  
ORIG-ID: INFORMIX UNDE                  REV:     4.20

**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 experiencing this problem, please resubmit this trouble report along with a small program (if possible) which duplicates the problem.

- 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 misunderstanding of how files inherit characteristics. A minor change in the design of the program cleared up the problem.

- 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:SWE 000000249  
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.





## DG/UX OPERATING SYSTEM

- STR:NASC000005822  
ORIG-ID: SMC0511 HANG                      REV:     4.20

**PROBLEM SUMMARY:**

All terminals on VDA-128 ports hung. Master Console still responded.

**ANSWER SUMMARY:**

This problem will be resolved in revision 4.31 of DG/UX.

- STR:NASC000005817  
ORIG-ID: 63579                                      REV:     4.20

**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 has been resolved in DG/UX Release 4.30.

- STR:NASC000005775  
ORIG-ID: CALTECH-73                              REV:     4.20

**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.

- STR:NASC000005774  
ORIG-ID: CALTECH-72                              REV:     4.20

**PROBLEM SUMMARY:**

The csh will crash.

**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.

- STR:NASC000005772  
ORIG-ID: CALTECH-71                              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 interrupted by a signal.

**ANSWER SUMMARY:**

Given our interpretation of the problem description in this STR, we feel the wait(2) man page is adequate.

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 terminated, then WIFSIGNALED(stat\_val) will be returned to wait and WTERMSIG will tell which signal killed the process

- STR:NASC000005765  
ORIG-ID: CALTECH-70                              REV:     4.20

**PROBLEM SUMMARY:**

Inconsistency between the shmat(2) man page and /usr/include/sys/shm.h declarations.

**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.

- STR:NASC000005764  
ORIG-ID: CALTECH-69                              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.

**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:NASC000005763  
ORIG-ID: CALTECH-68                              REV:     4.20

**PROBLEM SUMMARY:**

The fork() man page refers to the shmop() 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 fork(2) man page.

- STR:NASC000005762  
ORIG-ID: CALTECH-67                              REV:     4.20

**PROBLEM SUMMARY:**

The nroff(1) man page refers to the directory /usr/lib/term which does not exist.

**ANSWER SUMMARY:**

The DG/UX 4.30 revision of the nroff(1) man page changes /usr/lib/term to /usr/lib/nterm.



## DG/UX OPERATING SYSTEM

- STR:NASC000005761  
ORIG-ID: CALTECH-66                      REV:     4.20

**PROBLEM SUMMARY:**

Inconsistent type declarations for the schndr structure between the a.out(4) man page and the /usr/include/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: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 command behavior. We have no plans to make this enhancement 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: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 its next printing after 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:NASC000005694  
ORIG-ID: E058715                          REV:     4.20

**PROBLEM SUMMARY:**

If a syacload is done to a single existing vdc, all vdc's will hang.

**ANSWER SUMMARY:**

The syacload command loads the controller, not the vdc's. 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 environment variable TERM does not get set to the value 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.









## DG/UX OPERATING SYSTEM

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 that reports the same problem at this site, that we are closing this STR with your approval.

- 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.

### ANSWER SUMMARY:

This problem will be resolved in revision 4.30 of DG/UX.

- STR:NASC000005274  
ORIG-ID: Q997682                      REV:      4.20

### PROBLEM SUMMARY:

User terminal hangs after exiting an application or issuing an lp 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.

- STR:NASC000005264  
ORIG-ID: DMSDISK02                      REV:      4.20

### PROBLEM SUMMARY:

Random disk I/O performance on an AV3XX system 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 currently available.

- 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

/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: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:

This problem has been fixed in DG/UX 4.40.

- STR:NASC000005223  
ORIG-ID: DT031690                      REV:      4.20

### 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 compatibility, this enhancement request will not be implemented.

- 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 treating psuedo-terminal entries in wttmp correctly but it did treat direct connect terminals correctly.

- 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.



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- 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.

- 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 unable 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.

- STR:NASC000005046  
ORIG-ID: CALTECH-46                      REV:     4.20

**PROBLEM SUMMARY:**

CPRS produces bad files (cprs? ld? 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 unable to analyze this problem with the materials and information 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.

- 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.

**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:**

'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 usefulness 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 problems, please submit separate STR's for each 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 multiple uses of the same varargs list in one procedure.

**ANSWER SUMMARY:**

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 investigation 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

**PROBLEM SUMMARY:**  
"mnttab" manual entry is incorrect.

**ANSWER SUMMARY:**  
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.

- STR:NASC000005029  
ORIG-ID: E058389                              REV:     4.20

**PROBLEM SUMMARY:**  
Using modem to dial into an AV300 causes Xwindows to crash.

**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 indicator pin (22) which was being handled incorrectly and thereby caused this problem.

- STR:NASC000005012  
ORIG-ID: MIT-030190                          REV:     4.20

**PROBLEM SUMMARY:**  
Accounting program acctcon2 reports incorrect connect times.

**ANSWER SUMMARY:**  
This problem has been fixed in DG/UX Release 4.31. The problem was that accounting was not treating psuedo-terminal entries correctly but did treat direct connect terminals correctly.

- STR:NASC000005000  
ORIG-ID: Q984111                              REV:     4.20

**PROBLEM SUMMARY:**  
Problem running du(1) in background while compiling a program, will cause DG/UX rev 4.20 to error with "Mem Faults".

**ANSWER SUMMARY:**  
This problem is resolved in DG/UX 4.30. Until then, the problem may be avoided by installing patch 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.

- STR:NASC000004974  
ORIG-ID: SEP-NYSDOH-02                      REV:     4.20

**PROBLEM SUMMARY:**  
Can reproduct the LPSCHED process hanging, and cannot kill the process, (even with a kill -9) until the system is rebooted.

**ANSWER SUMMARY:**  
Upon detailed examination of the problem your STR reports we regret to inform you that we are unable 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 suggest you install this patch and if the problem continues submit another STR at that time.

- STR:NASC000004967  
ORIG-ID: VI-022690                              REV:     4.20

**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:**  
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.

- STR:NASC000004966  
ORIG-ID: MIT-900227                              REV:     4.20

**PROBLEM SUMMARY:**  
Cancellp function in sysadm lpmgmt does not function when printer classes are defined.

**ANSWER SUMMARY:**  
SYSADM does not yet support classes. This enhancement will be considered for a future revision.

- STR:NASC000004964  
ORIG-ID: CALTECH-32                              REV:     4.20

**PROBLEM SUMMARY:**  
The "su" command behaves unexpectedly. While "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.

**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:NASC000004962  
ORIG-ID: CALTECH-30                      REV:     4.20

**PROBLEM SUMMARY:**  
GDB 3.4 problems (I realize that GDB is not supported).

**ANSWER SUMMARY:**  
We regret to inform you that we are unable to process your STR since it reports a problem with a unsupported product.

- STR:NASC000004960  
ORIG-ID: CALTECH-29                      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).

**ANSWER SUMMARY:**  
This functionality exists in DG/UX 4.20, please refer to the attached page for information on how to do this.

- STR:NASC000004953  
ORIG-ID: CALTECH-25                      REV:     4.20

**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 pathetically (!!) poorly documented.

**ANSWER SUMMARY:**  
We regret to inform you that we are unable to process your STR since it reports multiple problems. Should you wish to pursue these problems please submit separate 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 submitting STRs.

- 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 object files, with GKS and Xwindow libraries.

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

- STR:NASC000004942  
ORIG-ID: CALTECH-21                      REV:     4.20

**PROBLEM SUMMARY:**  
Unknown error message (from syslogd, I believe).

**ANSWER SUMMARY:**  
We regret to inform you that we are unable to determine the cause of this problem with the materials and information supplied. Should you wish to pursue this please submit another STR after gathering the required information and materials listed on the attached page.

- STR:NASC000004937  
ORIG-ID: CALTECH-17                      REV:     4.20

**PROBLEM SUMMARY:**  
Despite repeated attempts using \K, I have been completely unable to get uucp to send a break to the modem.

**ANSWER SUMMARY:**  
We regret to inform you that we are unable to analyze the problem your STR reports with the information and materials supplied with this STR. Should you wish to pursue this problem please submit another STR after gathering the required materials and information listed on the attached page.

- STR:NASC000004931  
ORIG-ID: CALTECH-11                      REV:     4.20

**PROBLEM SUMMARY:**  
Man page entry in error: man a.out refers to scnhdr(4), but this man page does not exist.

**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

**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 determine the cause of the problem your STR reports with the materials and information supplied. Should you 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:NASC000004912  
ORIG-ID: 62303-900209- REV: 4.20

**PROBLEM SUMMARY:**

When linking with -lm (standard math Lib) and X11 a multiply defined "ACOS" occurs.

**ANSWER SUMMARY:**

We regret to inform you that we are unable to determine the cause of the problem your STR reports with 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: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 ignoreeof 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.

- 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 determine 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 information listed on the attached page.

- STR:NASC000004909  
ORIG-ID: 47036-900208- REV: 4.20

**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 command.

- STR:NASC000004895  
ORIG-ID: Q981395 REV: 4.20

**PROBLEM SUMMARY:**

DG/UX revision 4.20 hangs seven to eight times a day.

**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 occurred 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:**

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 corrected 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 condition" 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 exactly 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: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 through which the clients communicate with the server.

**ANSWER SUMMARY:**

The problem you report was caused by the user improperly setting up a socket call.

- 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:**

This problem will be solved in revision 4.30 of DG/UX

- 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.

- 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 DG/UX 4.20.

- STR:NASC000004801  
ORIG-ID: JCSVALFORK                              REV:     4.20

**PROBLEM SUMMARY:**

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.

- 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).

**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).

- STR:NASC000004799  
ORIG-ID: SEP-900214                              REV:     4.20

**PROBLEM SUMMARY:**

DG/UX's VT/100 emulator does not allow use of the arrow keys on the AV300's 101 keyboard running outside of the X-Window environment. Please add this support.

**ANSWER SUMMARY:**

We will consider enhancements to the kernel terminal emulator in a future revision of DG/UX for AViiON.

- 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 configuration error. Should this problem persist after you complete troubleshooting this problem please feel free to submit another STR at that time.



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- STR:NASC000004722  
ORIG-ID: Q969862                      REV:     4.20

**PROBLEM SUMMARY:**

Problems using 'cu': CD must be forced high to dialout, but this causes problems for dial-in.

**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 documentation to cover this option in a future revision of DG/UX.

- STR:NASC000004715  
ORIG-ID: Q969334                      REV:     4.20

**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 information.

- STR:NASC000004680  
ORIG-ID: MD-CTS-900201              REV:     4.20

**PROBLEM SUMMARY:**

Console ports on a VAC/16 will hang intermittently during user login sessions and occasionally when exiting from a login session.

**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 4.20.

- STR:NASC000004670  
ORIG-ID: JCSCPIO-01                      REV:     4.20

**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.

**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

the NCR machine with the -c option are not readable by Sun, POSIX, or current DG/UX versions of cpio(1).

- STR:NASC000004658  
ORIG-ID: LOM-900131                      REV:     4.20

**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 approximately one time in five power-ups.

**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.

- STR:NASC000004647  
ORIG-ID: Q947983                      REV:     4.20

**PROBLEM SUMMARY:**

DG/UX system panic 2000107.

**ANSWER SUMMARY:**

Upon detailed examination of the core dump supplied 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 telephone conversation we are closing this STR with your approval since you have not had another panic of this type.

- STR:NASC000004636  
ORIG-ID: Q957978                      REV:     4.20

**PROBLEM SUMMARY:**

The 'who' command shows users who have already logged off the system.

**ANSWER SUMMARY:**

This is not actually a problem, but occurs due to the implementation. The way to avoid this behavior is to use xkill to kill the xterm sessions rather than using "kill -9" on the xterm process ID. This (or any of the other documented ways of killing an xterm process) will allow the proper file updates to take place so that the problem you described does not occur.









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● 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 DG/UX.

● STR:NASC000004439  
 ORIG-ID: E058167                              REV:     4.20

**PROBLEM SUMMARY:**  
 Avion 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.

● 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 recommended to attempt to use file system greater than 2 gb. DG/UX 4.30 will allow larger file systems, at least more than 4gb, and all of the file system utilities will support this enhancement.

● 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:NASC000004409  
 ORIG-ID: STS-900108                              REV:     4.20

**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

● STR:NASC000004379  
 ORIG-ID: Q948095                              REV:     4.20

**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 correctly. Therefore we are closing the STR at your direc-tion.

● 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:NASC000004372  
 ORIG-ID: IAN01                                      REV:     4.20

**PROBLEM SUMMARY:**  
 lptab stops sending data to line printer during a print job.

**ANSWER SUMMARY:**  
 This problem will be resolved in revision 4.21 of DG/UX.

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- STR:NASC000004356  
ORIG-ID: HBO-900103                      REV:     4.20

**PROBLEM SUMMARY:**

The make command will incorrectly report that dependent files are up to date if you use a relative path rather than an absolute path.

**ANSWER SUMMARY:**

This problem has been fixed in DG/UX 4.30.

- STR:NASC000004320  
ORIG-ID: IAN01                              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.

**ANSWER SUMMARY:**

This problem will be fixed in revision 4.30 of DG/UX.

- 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.

**ANSWER SUMMARY:**

The write error you report occurs when the available space in the file system you are putting the destination files in is less than 10% free. This is a feature in DG/UX to prevent overflowing a file system. This 10% free space margin is changable by the superuser with the tunefs(1m) command.

- STR:NASC000004271  
ORIG-ID: Q931161                              REV:     4.20

**PROBLEM SUMMARY:**

Customer is attempting to use the UUGETTY supplied 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 UUGETTY program is unusable.

**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.

- STR:NASC000004263  
ORIG-ID: MIT-891219                      REV:     4.20

**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 is fixed with patch number 2 to DG/UX 4.20.

- STR:NASC000004080  
ORIG-ID: Q929804                              REV:     4.20

**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 is fixed with patch DGUX\_4.20.02, which has already been sent to you.

- STR:NASC000003770  
ORIG-ID: KF-891102                              REV:     4.20

**PROBLEM SUMMARY:**

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.

**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 problem.

- STR:JAPN000000422  
ORIG-ID: NDG 2280                              REV:     4.20

**PROBLEM SUMMARY:**

Panic 20000075 at pty close

**ANSWER SUMMARY:**

This problem has been fixed in revision 4.30 of DG/UX.









## DG/UX OPERATING SYSTEM

- STR:NASC000004926  
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.

**ANSWER SUMMARY:**

This STR is a duplicate of STR NASC-4964 which you submitted under DG/UX revision 4.20. Please reference STR NASC-4964 for resolution of this problem.

- STR:NASC000003805  
ORIG-ID: MDP-891106                      REV:     4.11

**PROBLEM SUMMARY:**

DG/UX does not allow a login name to be a member of more than one group.

**ANSWER SUMMARY:**

This problem was fixed in revision 4.20 of DG/UX.

- STR:JAPN000000351  
ORIG-ID: NDG 2208                      REV:     4.11

**PROBLEM SUMMARY:**

The make command does not recurse properly.

**ANSWER SUMMARY:**

This problem cannot be reproduced with the information given. If you are still experiencing this problem, please resubmit this trouble report along with a copy of the make script used and explicit instructions for reproducing the problem.

- 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.

- STR:JAPN000000315  
ORIG-ID: NDG 2173                      REV:     4.11

**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.

- 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
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 corrected with any future printings of the manual.

- STR:JAPN000000313  
ORIG-ID: NDG 2171                      REV:     4.11

**PROBLEM SUMMARY:**

The man page for sar(1) displays -w as an argument but no usage for -w is documented.

**ANSWER SUMMARY:**

The on-line manual page will be corrected with DG/UX 4.30. The hardcopy manual page will be corrected with any future printing of the manual.

- STR:JAPN000000312  
ORIG-ID: NDG 2169                      REV:     4.11

**PROBLEM SUMMARY:**

Calling 'putenv(3)' with a null string, causes system(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 system()). When the shell initializes, if it detects an environment 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 OPERATING SYSTEM

- STR:JAPN000000305  
ORIG-ID: NDG 2162                      REV:     4.11

**PROBLEM SUMMARY:**

Request for enhancement: Let the configuration file for building an AViiON workstation kernel have defaults which are make sense for a workstation instead of using the same default configuration file that the AViiON Server uses.

**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.

- STR:JAPN000000302  
ORIG-ID: NDG 2159                      REV:     4.11

**PROBLEM SUMMARY:**

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 appended to the End of Recorded Media (EORM). This prevents the r switch on tar from extending a tape file image. See the rmt(7) man page for more information.

- STR:JAPN000000294  
ORIG-ID: NDG 2150                      REV:     4.11

**PROBLEM SUMMARY:**

The contents of /etc/exports is cleared by the 'sysadm delfsys' command.

**ANSWER SUMMARY:**

This problem is fixed with DG/UX 4.20.

- STR:JAPN000000271  
ORIG-ID: NDG 2130                      REV:     4.11

**PROBLEM SUMMARY:**

Panic 53000001 occurs on AV300 series with SCSI devices.

**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

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.

- STR:JAPN000000264  
ORIG-ID: NDG 2115                      REV:     4.11

**PROBLEM SUMMARY:**

Enhancement request for strcmp/strncmp to compare 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:JAPN000000263  
ORIG-ID: NDG 2122                      REV:     4.11

**PROBLEM SUMMARY:**

A segmentation fault occurs in strcmp/strncmp functions with NULL arguments.

**ANSWER SUMMARY:**

The string functions are not required by any Standard 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.

- STR:WEBO000036040  
ORIG-ID:                                      REV:     4.10

**PROBLEM SUMMARY:**

Request for enhancement -- Please increase the number of pseudo-terminals allowed by DG/UX

**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 the number available by running "sysadm newdgux" and putting an entry for "PTYCOUNT 32" in the system file, where you replace 32 with the number of pseudo terminals you want.

- STR:UKSC000036332  
ORIG-ID: /USR SPACE +                      REV:     4.10

**PROBLEM SUMMARY:**

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:**

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:NASC000004400  
ORIG-ID: MIT-900104-04                      REV:     4.10

**PROBLEM SUMMARY:**

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: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 edit read facility.

**ANSWER SUMMARY:**

This problem is fixed with DG/UX 4.20. After installing DG/UX 4.20 be sure that you have the "ISTRIP" characteristic documented in "termio(7)" set correctly based in whether you are using 7 or 8 bits.

- 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 accounting. Please insure that accounting was set up correctly and that enough space existed in the /var directory to store accounting info. If problem still persists, please submit another STR with the entire var/adm/acct directory.

- 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 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.

- STR:NASC000004314  
ORIG-ID: MIT891222-03                      REV:     4.10

**PROBLEM SUMMARY:**

When user1 becomes user2 by way of su, then 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 mailbox.

**ANSWER SUMMARY:**

This is the intended functionality of the product.

- 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 delivery becomes impossible.

**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 unable 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 additional information and materials for our analysis.

## DG/UX OPERATING SYSTEM

- STR:NASC000004307  
ORIG-ID: ATS-891222                      REV:    4.10

**PROBLEM SUMMARY:**

Request for enhancement: If the file system is full, files being edited by vi(1) and attempting to be written 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.

- 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: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 effect on utilities in general is undefined, although it may not be a problem in a few isolated cases.

- 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 terminfo entry for this terminal, but it does not work.

**ANSWER SUMMARY:**

This problem is fixed in revision 4.30 of DG/UX.

- STR:NASC000004177  
ORIG-ID: Q933332                      REV:    4.10

**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 unreadable. Should this problem occur again please provide both the system dump and the system image (in "cpio" format) for our analysis.

- 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: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 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

## DG/UX OPERATING SYSTEM

telephone conversation the materials you sent with this STR will be used for STR NASC-4080.

- STR:NASC000004080  
ORIG-ID: Q929804                      REV:     4.10

**PROBLEM SUMMARY:**

User terminals hang at a very intermittent rate.

**ANSWER SUMMARY:**

It is our understanding that this problem has not recurred since replacing the VDA/128 controller. 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.

- STR:NASC000004076  
ORIG-ID: SE001                         REV:     4.10

**PROBLEM SUMMARY:**

The program "PARANOIA" demonstrated severe floating point deficiencies in AViiON under "C".

**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 number support. Both of these have been addressed in the release of DG/UX 4.30. Please upgrade to revision 4.30 when it becomes available.

- STR:NASC000004066  
ORIG-ID: Q929530                      REV:     4.10

**PROBLEM SUMMARY:**

When exiting an individual terminal connected to a 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.

**ANSWER SUMMARY:**

This problem has been fixed in DG/UX 4.20.02.

- STR:NASC000004066  
ORIG-ID: Q929530                      REV:     4.10

**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 can be corrected by installing DGUX 4.20 and applying patch DGUX\_4.20.01. However, this patch does induce another problem where individual 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-4066-1. You will be notified when it is resolved.

- STR:NASC000004065  
ORIG-ID: Q929528                      REV:     4.10

**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.

**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 VDA-128's or systems with both VDA-128's and VAC-16's.

- STR:NASC000004013  
ORIG-ID: 2                                REV:     4.10

**PROBLEM SUMMARY:**

System hung, all terminals excluding the master console hung. System Core dump generated using hot key sequence by the Customer (Toronto Stock Exchange).

**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.

- STR:NASC000004004  
ORIG-ID: Q918689                      REV:     4.10

**PROBLEM SUMMARY:**

Customer has installed D210/D211 terminals on a AV5000 DGUX 4.10 system. DGUX 4.1x does not support DG mode so ansi mode must be used. Arrow keys do not work properly while the terminals are in ANSI mode.

**ANSWER SUMMARY:**

This problem is fixed with DG/UX 4.20. After installing 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.

## DG/UX OPERATING SYSTEM

- 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: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 information while the system/syac is in a hung state.

**ANSWER SUMMARY:**

The problem your STR reports is corrected in revision 4.21 of DG/UX.

- STR:NASC000003874  
ORIG-ID: Q903904                      REV:     4.10

**PROBLEM SUMMARY:**

After booting AViiON release 4.10 on Maverick, if 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.

**ANSWER SUMMARY:**

This problem will be corrected in revision 4.30 of DG/UX.

- STR:NASC000003831  
ORIG-ID: Q910219                      REV:     4.10

**PROBLEM SUMMARY:**

The input buffers of lines at 9600 baud are overflowed. This user application will generate a core dump, due to the application not handling the overflow. The same application runs on other UNIX systems without error.

**ANSWER SUMMARY:**

Upon detailed analysis of your problem and application program, we have determined that the effect your STR describes is caused by various programming errors in your application program. In all of our test-

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:NASC000003770  
ORIG-ID: KF-891102                      REV:     4.10

**PROBLEM SUMMARY:**

Doing a XOFF on one terminal connected 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 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.

- 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.

**ANSWER SUMMARY:**

This problem will be resolved in revision 4.30 of DG/UX.

- STR:NASC000003748  
ORIG-ID: Q904008                      REV:     4.10

**PROBLEM SUMMARY:**

Problem with system call IOCTL using the GNU c compiler.

**ANSWER SUMMARY:**

The sys/\_int\_att\_tty\_ioctl.h library has been corrected in DG/UX Release 4.30 to define c\_cflag of structure termio to be unsigned short which is in compliance 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.

## DG/UX OPERATING SYSTEM

- STR:NASC000003701  
ORIG-ID: E57862-Q89576                      REV:     4.10

**PROBLEM SUMMARY:**

When trying to build a new kernel a "Bus Error" would occur and the core would dump.

**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/variable 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.

- STR:NASC000003631  
ORIG-ID: PT-891024                              REV:     4.10

**PROBLEM SUMMARY:**

Request for enhancement on VAC/16 device driver to allow user to define character buffer size per board and per line.

**ANSWER SUMMARY:**

This software enhancement cannot be implemented in DG/UX software as the buffer size is controlled by the Systech board. Therefore, DG/UX is restricted by the Systech hardware.

- 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 command has "delete on last detach" semantics.'

**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:JAPN000000318  
ORIG-ID: NDG 2176                                REV:     4.10

**PROBLEM SUMMARY:**

There are no library entries for mmap(2) and munmap(2).

**ANSWER SUMMARY:**

These system calls, mmap and munmap, are not supported in any revision of DG/UX up to and including revision 4.30.

- STR:JAPN000000317  
ORIG-ID: NDG 2175                                REV:     4.10

**PROBLEM SUMMARY:**

A AV5120 got a PANIC: 1000026 after a diskless AV310C attempted to boot with the AV5120 acting as 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, submit another STR and follow the instructions provided in the release notice.

- STR:JAPN000000297  
ORIG-ID: NDG 2155                                REV:     4.10

**PROBLEM SUMMARY:**

Function "tgetch" in libcurses can not always accept the escape character.

**ANSWER SUMMARY:**

This problem is fixed in revision 4.30 of DG/UX.

- 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.

- STR:JAPN000000255  
ORIG-ID: NDG 2112                                REV:     4.10

**PROBLEM SUMMARY:**

The regex(3X) function works incorrectly.

**ANSWER SUMMARY:**

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 character when it appears as the last character of the last string argument to regex(3X).





**GNU C COMPILER****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 lengthy compile times and extreme memory usage. You can avoid this by simplifying the program. The symptoms concerning time and swapping behavior can be expected to change with DG/UX revision 4.30.

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

**PROBLEM SUMMARY:**

GCC treat '\)' as warning.

**ANSWER SUMMARY:**

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

**GNU C COMPILER**

**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 attempts to mount its /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/NFS SYSTEM**

<b>ONC/NFS SYSTEM</b>
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**STR ANSWER REPORT**


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for DG/UX NFS FOR AVIION

AS OF 08-14-90

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- STR:NASC000006509  
ORIG-ID: Q057748-00                      REV:     4.30

**PROBLEM SUMMARY:**

After rev'ing 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 unsuccessfully attempting to export a filesystem from the local disc of a client which was booted over NFS.

**ANSWER SUMMARY:**

This problem has been fixed in DG/UX 4.30.

---

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

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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

---

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

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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

---

**ONC/NFS SYSTEM**

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

for DG/UX TCP/IP FOR AVIIION

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:NASC000006001  
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)**



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

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## DOCUMENTATION

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

**DG/UX X WINDOWS**

## DG/UX X WINDOWS

### STR ANSWER REPORT

for DG/UX X WINDOWS FOR AVIIION

AS OF 08-14-90

- STR:NASC000006432  
ORIG-ID: Q074624                      REV:     4.22

**PROBLEM SUMMARY:**

Xsetroot does not work on a AVX30 if X is brought up on the AV310 server first.

**ANSWER SUMMARY:**

The problem you reported is fixed in DG/UX X Windows for AViiON, revision 4.30.

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

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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

- STR:NASC000006039  
ORIG-ID: Q046717                      REV:     4.22

**PROBLEM SUMMARY:**

Xmodmap works only about 1/3 of the time when executed from a script initiated 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:UKSC000041455  
ORIG-ID: XWINDOWS - XT              REV:     4.20

**PROBLEM SUMMARY:**

Customer would like to know the control sequences 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:UKSC000040180  
ORIG-ID: XPOLLYGONFILL              REV:     4.20

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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

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

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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

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

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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

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

**PROBLEM SUMMARY:**

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

## DG/UX X WINDOWS

**ANSWER SUMMARY:**

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

- STR: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 compared 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

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.

**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.

**GREEN HILLS C-88000®**

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

for GREEN HILLS FORTRAN 77 FOR  
AVIION UNIX  
AS OF 08-14-90

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

**PROBLEM SUMMARY:**

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

**ANSWER SUMMARY:**

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

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

**PROBLEM SUMMARY:**

Missing "BERKELEY COMPATIBLE" Libraries from Fortran Package.

**ANSWER SUMMARY:**

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

**GREEN HILLS FORTRAN-88000®**



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

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**DOCUMENTATION**


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Title	Part Number
Using the Command Processor	093-000706-00
Addendum to Using Command Processor AViiON™ (093-000706)	086-000167-00
Using the Multi-extensible Debugger (Mxdb)	093-000710-01
Using the Multi-extensible Debugger (Mxdb) -- Japan	093-000708-01

**Mxdb for AVIION™ SYSTEMS**

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

for Multi-extensible Debugger for Aviiion  
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 AVIIION™ 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 throughout the session and results in unsatisfactory reponse time.

**ANSWER SUMMARY:**

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

**SNA 3270 for AVIION™ SYSTEMS**

**BUSINESS BASIC for 386/ix****STR ANSWER REPORT****for BUSINESS BASIC FOR 386/IX****AS OF 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  
ORIG-ID: 386 DFSPACE S                      REV:      2.01

**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 MULTI USER**

## BUSINESS BASIC for AViiON SYSTEMS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>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.</p> <p>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.</p> <p>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.</p>	<p>Product: BUSINESS BASIC FOR AViiON (Unlimited Users)</p> <p>Model #: L005A</p> <p>Current Rev. 1.02      SSS Shipped: 08/90</p> <p>Previous Rev: 1.01 Support Effective Until: 02/01/91</p> <p>Release Notice: 085-600140-02</p>

### DOCUMENTATION

Title	Part Number
Commands, Statements, and Functions in Business Basic	093-000351-01
Learning Business BASIC	093-000684-00
Subroutines, Utilities, and the Business BASIC CLI	093-000389-01
Using Business BASIC on DG/UX and 386/ix Systems	093-000685-01

**BUSINESS BASIC for AVIION SYSTEMS**



## BUSINESS BASIC for AViiON SYSTEMS

end application on a second terminal. When the second terminal user logged off Business Basic control returned to login.

### ANSWER SUMMARY:

This problem with swap space is corrected for revision 1.02 of Business BASIC for DG/UX systems.

- STR:ITAL000000082  
ORIG-ID: MI-90-22 (DGM)                      REV:     1.01

### PROBLEM SUMMARY:

Sysadm gives insufficient values to bring up obit successfully on AViiON systems with AX-BASIC-B

### ANSWER SUMMARY:

Revision 1.02 of Business BASIC for AViiON Systems features a new implementation of shared I/O support which no longer requires a large amount of 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.

- STR:ITAL000000080  
ORIG-ID: MI-90-20 (SIA)                      REV:     1.01

### PROBLEM SUMMARY:

Secondary unpend key in AX-BASIC-B environment

### ANSWER SUMMARY:

For CTRL-H to interrupt a LIST of a program, you must first set the interrupt key in DG/UX to be CTRL-H. Please see the documentation for this on page 6-17 of USING BUSINESS BASIC ON DG/UX AND 386/IX SYSTEMS (093-000685-01).

- STR:ITAL000000079  
ORIG-ID: MI-90-19 (SIA)                      REV:     1.01

### PROBLEM SUMMARY:

In OPEN Shared mode (0,5) statement PRINT FILE(ch),X\$ don't write after EOF and GPOS statement 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:ITAL000000077  
ORIG-ID: MI-90-17 (SIA)                      REV:     1.01

### PROBLEM SUMMARY:

Incorrect GPOS result on OPEN mode 2 (append mode)

### ANSWER SUMMARY:

This is a duplicate of ITAL-71. ITAL-71 is under investigation by development at this time. Please refer to that Software Trouble Report for a resolution.

- STR:ITAL000000072  
ORIG-ID: MI-90-13 (SIA)                      REV:     1.01

### PROBLEM SUMMARY:

PRINT "< 18>" and PRINT "< 19>" (Roll ENABLE and DISABLE) NOT SUPPORTED

### 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 the next revision of Business BASIC after revision 1.02.

- STR:UKSC000037827  
ORIG-ID: BBUX CURSOR P                      REV:     1.00

### PROBLEM SUMMARY:

UX BBASIC 1.00, When using -C switch to translate embedded D200 type control sequences, Reverse video is being generated in place of 'NON-DIM' fields and apparent problems with cursor addressing.

### ANSWER SUMMARY:

This problem is fixed in BBASIC revision 1.02.

- STR:NASC000005245  
ORIG-ID: Q991057                              REV:     1.00

### PROBLEM SUMMARY:

GPOS returns an error when using it with a channel 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.

<b>ICOBOL for 386/ix</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>The Interactive Cobol compiler, revision 1.60, for 386/ix Systems is an update of the 1.51 compiler 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.</p> <p>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.</p> <p>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.</p>	<p>Product: INTERACTIVE COBOL COMPILER for 386/ix SYSTEMS</p> <p>Model #: L006A</p> <p>Current Rev. 1.60                      SSS Shipped: 08/90</p> <p>Previous Rev:                            1.51 Support effective until:                02/01/91</p> <p>Release Notice:                         085-600209-02</p>

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**ICOBOL for 386/ix**



## ICOBOL for AViiON (Unlimited Users)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>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.</p> <p>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.</p> <p>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.</p>	<p>Product: INTERACTIVE COBOL COMPILER for AVIIION SYSTEMS</p> <p>Model #: L007A</p> <p>Current Rev. 1.60                      SSS Shipped: 08/90</p> <p>Previous Rev:                            1.51 Support Effective Until:                02/01/91</p> <p>Release Notice:                         085-600205-01</p>

### DOCUMENTATION

Title	Part Number
Runtime/Utilities Release Notice	085-600207-01
Sort/Merge Utility Release Notice	085-600208-01
MXDB Release Notice	085-600206-01
Interactive COBOL Programmer's Reference	093-705013-04
Using Interactive COBOL on DG/UX and 386/ix Systems	069-000359-02
Using the Sort/Merge Utility on DG/UX and 386/ix Systems	093-000681-00
Using the Command Processor	093-000706-01
Using the Multi-Extensible Debugger (MXDB)	093-000710-01

**ICOBOL for AViiON (Unlimited Users)**

**ICOBOL for AVIION (Unlimited Users)****STR ANSWER REPORT**

for INTERACTIVE COBOL FOR AVIION  
SYSTEMS  
AS OF 08-14-90

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

**PROBLEM SUMMARY:**  
AX Icobol compiler is generating bad metacode for COMPUTE statement.

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

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

**PROBLEM SUMMARY:**  
Receiving error "not a legal COBOL program file" when attempting to execute COBOL programs transported from a RDOS COBOL system.

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

- STR: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 submit another STR.

- STR:ITAL000000076  
ORIG-ID: MI-90-16 (DGM REV: 1.51

**PROBLEM SUMMARY:**  
Wrong behaviour of "START" when used with "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 the key specified is for a file which has been logically deleted. This problem will be fixed in revision 2.00 of COBOL for DG/UX and will be corrected with the first replacement runtime system, 1.60.01, made available on AWARE.

- STR:AUSC000005389  
ORIG-ID: REV: 1.51

**PROBLEM SUMMARY:**  
Printing from an COBOL program under DG/UX causes zombie processes to be left around until icx runtime process terminates

**ANSWER SUMMARY:**  
This problem is corrected in revision 1.60 of Interactive COBOL for DG/UX and 386/ix Systems.

**ICOBOL for AVIION (Unlimited Users)**

<b>INTERACTIVE COBOL RUNTIME for 386/ix</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>	<p>Product: INTERACTIVE COBOL RUN - TIME/UTILITIES for 386/ix SYSTEMS</p> <p>Model #: L014A</p> <p>Current Rev. 1.60                      SSS Shipped: 08/90</p> <p>Previous Rev:                              1.51 Support effective until:                02/01/91</p> <p>Release Notice:                          085-600211-02</p>

### DOCUMENTATION

Title	Part Number
Sort/Merge Utility Release Notice	085-600212-02
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 386/ix Systems	093-000681-00

**INTERACTIVE COBOL RUNTIME for 386/ix**

## INTERACTIVE COBOL RUNTIME for AViiON

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>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. This revision also includes some COBOL 85 features.</p> <p>Interactive Cobol for AViiON Systems is an implementation 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.</p> <p>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.</p> <p>Revision 1.60 of the Interactive COBOL Runtime 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.</p>	<p>Product: INTERACTIVE COBOL RUNTIME/ UTILITIES for AViiON SYSTEMS</p> <p>Model #: L015A</p> <p>Current Rev. 1.60                      SSS Shipped: 08/03/90</p> <p>Previous Rev:                              1.51 Support effective until:                02/01/91</p> <p>Release Notice:                            085-600207-01</p>
<h3>DOCUMENTATION</h3>	

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**



**INTERACTIVE COBOL RUNTIME for AVIION****STR ANSWER REPORT**

for INTERACTIVE COBOL FOR AVIION  
(RUNTIME)

AS OF 08-14-90

- STR:ITAL000000069  
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 AVIIION**

**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 AViON**

## NETWARE TRANSPORT for AViiON™ SYSTEMS

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

### DOCUMENTATION

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

**NETWORK TRANSPORT for AVIION SYSTEMS**

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

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the RPC TOOL for AViiON systems product. RPC TOOL for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using Remote Procedure Call (RPC) technology. The interface to the RPC TOOL AViiON Systems is derived from standard C syntax and declarations. Likewise, all output is C source code, capable of being compiled by your C compiler.</p> <p>RPC TOOL for AViiON Systems is a ported version of the Netwise RPC TOOL.</p> <p>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.</p> <p>The following is a list of the four key features of the RPC TOOL for AViiON Systems Release 1.00:</p> <ol style="list-style-type: none"> <li>1. Provides 100% of the communication software required to extend a conventional procedure call over the network.</li> <li>2. Uses the standard syntax of your development programming Language.</li> <li>3. Allows applications built with our software to integrate computers, operating systems, and networks from multiple vendors by supporting both proprietary and international standards.</li> <li>4. Requires no major adjustments to your development environment or methodology.</li> </ol>	<p>Product: RPC TOOL for AViiON SYSTEMS (TCP/IP) (U.S. &amp; Canada)</p> <p>Model #: C065A</p> <p>Current Rev. 1.00      SSS Shipped: 08/90</p> <p>Release Notice:      085-001163-00</p>

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



## RPC TOOL for AViiON SYSTEMS (TCP/IP)

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the RPC TOOL for AViiON systems product. RPC TOOL for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using Remote Procedure Call (RPC) technology. The interface to the RPC TOOL AViiON Systems is derived from standard C syntax and declarations. Likewise, all output is C source code, capable of being compiled by your C compiler.</p> <p>RPC TOOL for AViiON Systems is a ported version of the Netwise RPC TOOL.</p> <p>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.</p> <p>The following is a list of the four key features of the RPC TOOL for AViiON Systems Release 1.00:</p> <ol style="list-style-type: none"> <li>1. Provides 100% of the communication software required to extend a conventional procedure call over the network.</li> <li>2. Uses the standard syntax of your development programming Language.</li> <li>3. Allows applications built with our software to integrate computers, operating systems, and networks from multiple vendors by supporting both proprietary and international standards.</li> <li>4. Requires no major adjustments to your development environment or methodology.</li> </ol>	<p>Product: RPC TOOL for AViiON SYSTEMS (TCP/IP) (non U.S. &amp; Canada)</p> <p>Model #: C072A</p> <p>Current Rev. 1.00      SSS Shipped: 08/90</p> <p>Release Notice:      085-001163-00</p>

### 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 TOOL for AVIION SYSTEMS (TCP/IP)**

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

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the RPC TOOL for AViiON systems product. RPC TOOL for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using Remote Procedure Call (RPC) technology. The interface to the RPC TOOL AViiON Systems is derived from standard C syntax and declarations. Likewise, all output is C source code, capable of being compiled by your C compiler.</p> <p>RPC TOOL for AViiON Systems is a ported version of the Netwise RPC TOOL.</p> <p>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.</p> <p>The following is a list of the four key features of the RPC TOOL for AViiON Systems Release 1.00:</p> <ol style="list-style-type: none"> <li>1. Provides 100% of the communication software required to extend a conventional procedure call over the network.</li> <li>2. Uses the standard syntax of your development programming Language.</li> <li>3. Allows applications built with our software to integrate computers, operating systems, and networks from multiple vendors by supporting both proprietary and international standards.</li> <li>4. Requires no major adjustments to your development environment or methodology.</li> </ol>	<p>Product: UX/TCP/IP NETWORK LIBRARY (U.S. &amp; Canada)</p> <p>Model #: C067A</p> <p>Current Rev. 1.00      SSS Shipped: 08/90</p> <p>Release Notice:      085-001163-00</p>

### 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."

**UX/TCP/IP**

<b>UX/TCP/IP NETWORK LIBRARY (Non U.S. &amp; CANADA)</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>Release 1.00 is the first release of the RPC TOOL for AViiON systems product. RPC TOOL for AViiON Systems 1.00 is a flexible software development toolkit that helps you design and develop distributed applications for a network by using Remote Procedure Call (RPC) technology. The interface to the RPC TOOL AViiON Systems is derived from standard C syntax and declarations. Likewise, all output is C source code, capable of being compiled by your C compiler.</p> <p>RPC TOOL for AViiON Systems is a ported version of the Netwise RPC TOOL.</p> <p>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.</p> <p>The following is a list of the four key features of the RPC TOOL for AViiON Systems Release 1.00:</p> <ol style="list-style-type: none"> <li>1. Provides 100% of the communication software required to extend a conventional procedure call over the network.</li> <li>2. Uses the standard syntax of your development programming Language.</li> <li>3. Allows applications built with our software to integrate computers, operating systems, and networks from multiple vendors by supporting both proprietary and international standards.</li> <li>4. Requires no major adjustments to your development environment or methodology.</li> </ol>	<p>Product: UX/TCP/IP NETWORK LIBRARY (non U.S. &amp; Canada)</p> <p>Model #: C074A</p> <p>Current Rev. 1.00      SSS Shipped: 08/90</p> <p>Release Notice:      085-001163-00</p>

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## DOCUMENTATION

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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 (069-00494-00).

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				
<p>This release of C++ is a full implementation of AT&amp;T's C++ 2.0 (commonly called Cfront). C++ (AT&amp;T) runs on Data General's AViiON family of RISC processors, running the DG/UX operating system. This release of C++ (AT&amp;T) comprises the C++ Language preprocessor, streams and complex arithmetic Libraries, associated utilities and documentation.</p> <p>AT&amp;T's C++ preprocessor serves as the de facto standard for the C++ Language. The following are features of C++ on AViiON:</p> <ul style="list-style-type: none"> <li>* Complete support for the Motorola 88100.</li> <li>* Support for OCS calling standard, including stdargs.</li> <li>* Support for all DG/UX system calls.</li> <li>* Full optimization for developed code.</li> <li>* Support for both GNU C and Green Hills compilers</li> </ul>	<p>Product: C++ (AT&amp;T) for AViiON SYSTEMS for SERVER</p> <p>Model #: L018A</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Current Rev. 2.00</td> <td style="width: 50%;">SSS Shipped: 03/90</td> </tr> <tr> <td>Update 01</td> <td>SSS Shipped: 07/90</td> </tr> </table> <p>Release Notice: 085-600221-00 Update Notice: 078-600035-00</p>	Current Rev. 2.00	SSS Shipped: 03/90	Update 01	SSS Shipped: 07/90
Current Rev. 2.00	SSS Shipped: 03/90				
Update 01	SSS Shipped: 07/90				

### DOCUMENTATION

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

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



## C++ (AT&T) - for WORKSTATIONS

PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT								
<p>This release of C++ is a full implementation of AT&amp;T's C++ 2.0 (commonly called Cfront). C++ (AT&amp;T) runs on Data General's AViiON family of RISC processors, running the DG/UX operating system. This release of C++ (AT&amp;T) comprises the C++ Language preprocessor, streams and complex arithmetic Libraries, associated utilities and documentation.</p> <p>AT&amp;T's C++ preprocessor serves as the de facto standard for the C++ Language. The following are features of C++ on AViiON:</p> <ul style="list-style-type: none"> <li>* Complete support for the Motorola 88100.</li> <li>* Support for OCS calling standard, including stdargs.</li> <li>* Support for all DG/UX system calls.</li> <li>* Full optimization for developed code.</li> <li>* Support for both GNU C and Green Hills compilers.</li> </ul>	<p>Product: C++ (AT&amp;T) for AViiON SYSTEMS WORKSTATION</p> <p>Model #: L019A</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Current Rev. 2.00</td> <td style="width: 50%;">SSS Shipped: 03/90</td> </tr> <tr> <td>Update 01</td> <td>SSS Shipped: 07/90</td> </tr> </table> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">Release Notice:</td> <td style="width: 50%;">085-600221-00</td> </tr> <tr> <td>Update Notice:</td> <td>078-600035-00</td> </tr> </table>	Current Rev. 2.00	SSS Shipped: 03/90	Update 01	SSS Shipped: 07/90	Release Notice:	085-600221-00	Update Notice:	078-600035-00
Current Rev. 2.00	SSS Shipped: 03/90								
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### DOCUMENTATION

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

**C++ (AT&T) - for WORKSTATIONS**

<b>GNU C++ COMPILER for AViiON SYSTEMS</b>
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PRODUCT DESCRIPTION	SOFTWARE STATUS REPORT
<p>GNU C++ (or G++) is a true native-code compiler implementing the C++ language designed by Bjarne Stroustrup of AT&amp;T. G++ 1.37 is semantically compatible with C++ 2.0, the C++-to-C translator distributed by AT&amp;T and by a number of other vendors. As compared with that translator, G++ 1.37 offers superior optimization, superior error reporting, faster compilation rate, and the support of a true source-level debugger.</p> <p>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.</p> <p>This release of GNU C++ 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.</p>	<p>Product: GNU C++ COMPILER for AViiON SYSTEMS</p> <p>Model #: L021A</p> <p>Current Rev. 1.37                      SSS Shipped: 07/90</p> <p>Release Notice:                      085-600237-00</p>

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## DOCUMENTATION

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Title	Part Number
AT&T C++ Language System Library Manual	069-100340-00

**GNU C++ COMPILER for AVION SYSTEMS**

## MICRO FOCUS COBOL-2™

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

### 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

**MICRO FOCUS COBOL-2™**

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

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### DOCUMENTATION

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Title	Part Number
Micro Focus COBOL/2 Run-Time Environment Release Notice	085-600235-00
Micro Focus COBOL/2 Release Notice	085-600234-00
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 System	069-100355-00

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