

RECEIVED OCT 16 1995

***Data General
Open Systems
Support Newsletter***

**Data General Corporation
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Norcross, Georgia 30093**

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Letter From The Editor...

October 2, 1995

I have some news for you that I hope you will find as exciting as we at Data General do. This is the last hardcopy Newsletter that you will be receiving, however, it is not the last Newsletter that will be published. DASH, our Direct Access to Support Hotline system has been used for viewing various types of information, STRs included, for some time now. Effective in November, the Open Systems Support Newsletter will be available on DASH. If you haven't been using DASH, just use your modem to dial 1-800-DASHCSC or telnet to 128.222.159.141 to view the Newsletter. Questions regarding DASH can be answered by calling 1-800-DGHELPS and asking for the DASH Administrator.

Also, you may be aware that DG/UX R4.10 has been released. It is, however, released only for the Intel platform. DG/UX R4.11 will be released shortly that will contain AV10000 support, Clusters 1.0 support, DSO, performance tuning, additional Intel platform support and support for the 88K platform. It will contain a full set of files.

If you have any questions or comments regarding this Newsletter or this information, please either fill out and mail the Comments Form found at the end of this Newsletter, or call me at 1-770-923-0496. Thank you.

Gail S. Cave

Newsletter Editor

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SECTION 1:
Open System STRs

DG/UX Base System for AV - Early Access Model: Q501B

STR: NASC-22042 DG/UX Base System for AV - Early Acces

Module: N/A

ORIG-ID: E448027

Rev: 4.10

Problem Summary:

The mailx program cores on startup from root and other users.

Answer Summary:

This problem will be fixed in revision 5.4R4.10 of DG/UX. Please install that revision as soon as it becomes available.

DG/UX Base System for AViiON Model: Q501A

STR: GER-15368 DG/UX Base System for AViiON

Module: N/A

ORIG-ID: 2102269

Rev: 2.10

Problem Summary:

Opstar doesn't stop to reallocate blocks on an optical drive during soft error with ASC-Code 0C and ASCQ-Code 01 occurred. After 1000 reallocated blocks the system stops writing to the media with error ASC:32 ASCQ:00 (no defect spare

Answer Summary:

This problem is reported against unsupported revisions of DG/UX and Opstar software. Please install the current supported revisions of these products and submit a new STR if the problem still exists.

STR: SPA-1022 DG/UX Base System for AViiON

Module: N/A

ORIG-ID: CDROM

Rev: 3.00

Problem Summary:

Can't mount more than two cdroms of the same tipe. Theses CD are from DIALOG and title MED-LINE 94.

Answer Summary:

We have been unable to reproduce this problem with the materials and/or information provided. If this problem re-occurs then please submit a new STR with the appropriate materials for reproduction of the incident.

STR: NASC-21845 DG/UX Base System for AViiON
ORIG-ID: X000577

Module: N/A
Rev: 3.10

Problem Summary:

Problems with the -r argument on the mailx command.

Answer Summary:

The -r option of the mailx command does not work for our mail system. The man page for the mailx command is in error and has been corrected for release 4.10 of DG/UX.

STR: NASC-21852 DG/UX Base System for AViiON
ORIG-ID: ED080S3

Module: N/A
Rev: 3.10

Problem Summary:

Breaking out of 2 levels of loops works in one example and not another.

Answer Summary:

This will remain a permanent restriction in the Bourne shell.

STR: NASC-21880 DG/UX Base System for AViiON
ORIG-ID: E446844

Module: N/A
Rev: 3.10

Problem Summary:

The copy of a large file will consume a large amount of the buffer cache which must be flushed to free up space. This file will dominate memory and reduce overall system performance.

Answer Summary:

As we discussed in our telephone conversation, your problem was resolved by changing the implementation of the disk structuring, adding cache, changing the element size to 128 and the I/O throughput.

STR: NASC-22098 DG/UX Base System for AViiON
ORIG-ID: U761763

Module: N/A
Rev: 3.10

Problem Summary:

The command "logname" will not read \$LOGNAME environment variable correctly once it is updated.

Answer Summary:

The logname man page was changed for R4.11. The logname command explicitly ignores the LOGNAME environment variable because environment changes could produce erroneous results. This behavior is consistent with posix.2 and SYSV.4.

STR: NASC-22100 DG/UX Base System for AViiON
ORIG-ID: U752413

Module: N/A
Rev: 3.10

Problem Summary:

We are running DG/UX revision 5.4R3.10 with MU.02 installed and are having problems with our Cobol applications using memory and not releasing it. We believe that this is a problem with DG/UX.

Answer Summary:

This is a problem with the application "wrunchblfx". This program is consuming all available memory and swap for its stack. This may be result of a recursive sequence of function calls or incorrect exception handling by the application.

STR: NASC-22141 DG/UX Base System for AViiON
ORIG-ID: U764139

Module: N/A
Rev: 3.10

Problem Summary:

We have rev'ed up our AViiON to revision 5.4R3.10 with MU.02 installed. We are now having a problem with the korn shell. When we use the return function in our scripts it is not functioning properly.

Answer Summary:

This problem is corrected in the ksh that ships with DG/UX revision 4.10 and later.

STR: SWIT-737 DG/UX Base System for AViiON
ORIG-ID: ERN-950703

Module: N/A
Rev: 3.10

Problem Summary:

Panic 2000075 (VM_PANIC_INVALID_KERNEL_ADDRESS) occurs about once a week. DAT Tape with file 0: Memory Dump, file 1: Kernel (dgux), printout of the last lines of the message file.

Answer Summary:

We have analyzed the dump submitted with this STR, but have been unable to determine the cause of the panic. We understand that, although the STR states that the panic occurred frequently, this is now no longer true. If this problem occurs again, please submit a new STR with a new system dump and kernel image.

STR: EURO-609200709DG/UX Base System for AViiON
ORIG-ID:

Module: ADMIOPATH
Rev: 3.10

Problem Summary:

If a host in a dual-initiator configuration starts multipath IO against disks currently owned by the other host, it "steals" the disks from the failed over host

Answer Summary:

This STR is identical to EURO-690200709, which was filed by you on behalf of the same customer. There is no need to file multiple STRs reporting the same problem for the same customer. Please track EURO-690200709 for the resolution to this problem.

STR: NASC-21927 DG/UX Base System for AViiON
ORIG-ID: E446721

Module: ADMVDISK
Rev: 3.10

Problem Summary:

Aborting a virtual disk move operation left the virtual disk/filesystem in an unknown state.

Answer Summary:

The problem you reported is fixed in admpdisk(1M) and admvdisk(1M) that will ship with DG/UX R4.11. The admpdisk(1M) and admvdisk(1M) commands have been enhanced to terminate any 'sync' operation they may have initiated and to clean up temporary virtual disks if interrupted. As some data may have already been written to the destination, the destination must be assumed to be corrupt.

STR: NASC-21925 DG/UX Base System for AViiON
ORIG-ID: U719025

Module: CPIO
Rev: 3.00

Problem Summary:

Cpio returns error "major/minor number for /dev/??? out of range, using 0 instead" for any devices whose minor number is greater than 255.

Answer Summary:

The problem you reported is fixed in the version of cpio that will ship with DG/UX revision 4.11.

STR: NASC-22056 DG/UX Base System for AViiON
ORIG-ID: X000585

Module: DUMPFS
Rev: 3.10

Problem Summary:

The dumpfs command does not work properly on a RAMDISK filesystem and does not output an understandable error message.

Answer Summary:

The problem you have reported is fixed in the version of dumpfs that will ship with DG/UX Revision 4.11.

STR: NASC-22069 DG/UX Base System for AViiON
ORIG-ID: ET-7/95

Module: IDI
Rev: 3.10

Problem Summary:

Running same idl code under ascii or motif sessions, get different help information. ASCII => help from menu. MOTIF => help from first item under the menu.

Answer Summary:

The motif version of idi(4) display help on the 'armed' button. To get the help message on the top level menu items which appear in the MenuBar you must press F10 to arm the first item in the MenuBar. Traversal is then enabled and you can traverse to the item on which you want help and press the F1 key.

STR: NASC-21976 DG/UX Base System for AViiON

Module: KERN-BOOT

ORIG-ID: U742171

Rev: 3.10

Problem Summary:

Dual ported AV8500 fails to boot and exits with a status code of 26166.

Answer Summary:

This problem will be corrected in modules that will ship with DG/UX System R4.11. The SCSI driver that the bootstrap uses was not set to re-attempt SCSI commands that failed with a "device busy" status. These commands will not be retried.

STR: NASC-19932 DG/UX Base System for AViiON

Module: KERN-DEV

ORIG-ID: NCSC-940831

Rev: 3.00

Problem Summary:

When using an imaging configuration that includes HP jukeboxes connected to DG AViiON Servers, whenever the AViiON is cycled, the HP jukebox connection hangs.

Answer Summary:

This problem will be corrected in modules that will ship with DG/UX R4.11. The case where the user's device driver disables the automatic generation of a SCSI "Request Sense" command was being improperly handled. This caused the command that was previously issued to be repeatedly re-issued, causing the hang condition.

STR: NASC-22052 DG/UX Base System for AViiON

Module: KERN-DEV

ORIG-ID: U755495

Rev: 3.10

Problem Summary:

We need to know the expected throughput of a tape array with five tapes versus a single 4mm tape unit. Our test revealed dump2 takes a third of the time with the dump2. Using dd to backup a raw partition doesn't seem to improve as much as dump2.

Answer Summary:

This STR is being closed as we have explained the implications of the buffer sizes on "dd" throughput and tape array performance to you in a previous telephone conversation.

STR: SWIT-736 DG/UX Base System for AViiON

Module: KERN-DEV

ORIG-ID: MAD-950626

Rev: 3.10

Problem Summary:

Panic 53000055

Answer Summary:

The problem you report is corrected in the kernel libraries that will ship with DG/UX Revision 4.11.

STR: NASC-21580 DG/UX Base System for AViiON
ORIG-ID: E443912

Module: KERN-FS
Rev: 3.10

Problem Summary:

Short names for virtual disks do not get created on bootup.

Answer Summary:

As we discussed in our phone conversation, we are closing this STR with your permission since the problem has not recurred. Should the problem resurface, please submit a new STR.

STR: NASC-22091 DG/UX Base System for AViiON
ORIG-ID: S809184

Module: KERN-INSO
Rev: 3.10

Problem Summary:

The system panic with 121000113, we had two panics in 2 days.

Answer Summary:

This problem is the same one as reported in STR NASC-21700 that you submitted. This problem will be tracked with STR number NASC-21700.

STR: NASC-21926 DG/UX Base System for AViiON
ORIG-ID: U722245

Module: KERN-MKFS
Rev: 3.10

Problem Summary:

Shrinking a filesystem caused file corruption. The filesystem had files being linked together that were not linked previously.

Answer Summary:

This problem is corrected in DG/UX Release 4.11.

STR: NASC-22158 DG/UX Base System for AViiON
ORIG-ID: U768881

Module: KERN-NB
Rev: 3.10

Problem Summary:

We can not remote boot a CDROM on a AV6240 from a AV5225.

Answer Summary:

This STR is being closed as this problem is a restriction in DG/UX. Booting a hken style Ethernet controller for DG/UX installation is NOT a supported feature. The documentation that describes this is in error and will be corrected in a future release.

STR: NASC-21300 DG/UX Base System for AViiON
ORIG-ID: IPS1

Module: KERN-NK
Rev: 3.10

Problem Summary:

While attempting large file transfers, using Oracle's fast TWO-TASK driver with binary semaphores, the user processes hang. Both the application and the shadow process are waiting on a semaphore.

Answer Summary:

The incident you reported has been fixed in the Process Synchronization code of the DG/UX Operating System for revision R4.10.

STR: NASC-21982 DG/UX Base System for AViiON
ORIG-ID: DB-DGC-950803

Module: KERN-SCI
Rev: 3.10

Problem Summary:

There appears to be missing documentation on the "listio" system call. There is a header file "/usr/include/sys/dg_listio.h" available, but the header file does not fully explain the system call's operation.

Answer Summary:

The dg_listio functionality was added to DG/UX to support specific needs that vendors required in order to support Unixware compatible software. If there is a specific functionality need that you have that is not currently available in DG/UX please submit a Request for Enhancement for that need.

STR: NASC-21700 DG/UX Base System for AViiON
ORIG-ID: U707690

Module: KERN-SO
Rev: 3.10

Problem Summary:

Getting 'system panic' when running Thread software. The software failed at pthread_create(). The environment included DG/UX revision 5.4.R3.10 and AV5500 dual processor with 100 Mbytes of RAM.

Answer Summary:

The system panic will be corrected in the version of the kernel libraries that will ship with DG/UX Release 4.10.

STR: NASC-20404 DG/UX Base System for AViiON
ORIG-ID: U565559

Module: KERN-UFM
Rev: 3.00

Problem Summary:

Cpio does not backup data as quickly as it had in previous revision.

Answer Summary:

The problem you reported is fixed in the UFM subsystem which will ship with DG/UX R4.11.

STR: INTL-1176 DG/UX Base System for AViiON
ORIG-ID: BEL95007

Module: KERN-UFM
Rev: 3.10

Problem Summary:

Panic 54000005.

Answer Summary:

There was a locking problem in the file system that caused a directory that was getting removed and accessed at the same time to get an entry in the system name cache after the directory was removed. Later, when the name cache selected this entry for purging and found that the directory wasn't there, the system panicked.

STR: NASC-21537 DG/UX Base System for AViiON
ORIG-ID: U686666

Module: KERN-UFM
Rev: 3.10

Problem Summary:

System performance after upgrading from DG/UX 5.4R2.01 to 5.4R3.10 dgux has decreased.

Answer Summary:

When compared to earlier revisions of DG/UX, the performance of DG/UX 5.4R3.xx systems will vary depending on the application. Applications that do many short system calls may see a performance degradation. Many other applications do not see a performance decrease. We have provided a read ahead patch that will help some. The read ahead will be improved in DG/UX R4.10.

STR: NASC-21760 DG/UX Base System for AViiON
ORIG-ID:

Module: KERN-UFM
Rev: 3.10

Problem Summary:

Xref NASC21624. Dump analysis indicated the system was slow because of a delete of a large file. This slowdown is unacceptable. We deal with large files on a daily basis, and we cannot afford to have the system "hung" in this state.

Answer Summary:

An unlink operation on a very large file that is being purged to disk can cause system hangs resulting in a lock being held in the file system until the clean completes. In DG/UX Release 4.11, a new locking scheme and a new method of unlinking files has been implemented to address the issue and will stop purging at the time of the unlink.

STR: NASC-22062 DG/UX Base System for AViiON
ORIG-ID: U750394

Module: KERNEL
Rev: 3.00

Problem Summary:

The system node name "ivandg1" panicked on Aug, 08 1995 at 10:37:21 (GMT) with a 2000112 panic. The "tp4900_mip" process running as VP 108:0 on JP0 took the panic.

Answer Summary:

We have examined the dump materials thoroughly and cannot determine the exact cause of the corruption that occurred by examining the memory dump. In addition, we have not been able to reproduce this condition. Due to the nature of the dump and lack of information available to work with, this STR is being closed.

STR: NASC-20979 DG/UX Base System for AViiON
ORIG-ID: 19550.SPR.2

Module: KERNEL
Rev: 3.10

Problem Summary:

We have had numerous panics and created system dumps to a virtual disk. The dumps are put to tape with lsd, then loaded for analysis by DG. Often, the dumps are corrupt.

Answer Summary:

These "corrupted" dumps all appear to have been caused by hard errors which occurred when writing the dumps to the dump areas on the disks. In each case, the fact that the dump failed was reported and lsd reported that the dump was unusable when it was transferred to tape.

STR: NASC-22038 DG/UX Base System for AViiON
ORIG-ID: U751447

Module: KERNEL
Rev: 3.10

Problem Summary:

We are running DG/UX rev 5.4R3.10 with MU.02 installed and patch 127. We had a problem where users presently logged on to the system were fine, but new users could not logon.

Answer Summary:

The dump indicates that this system is under memory contention but is not hung. We understand that this problem has not been seen since PI/Open was upgraded so this incident is closed. If the problem should return, please submit a new STR with the appropriate support materials.

STR: SPA-1071 DG/UX Base System for AViiON
ORIG-ID: PANIC-1120000

Module: KERNEL
Rev: 3.10

Problem Summary:

Panic 112000002 in an Av9500

Answer Summary:

After examining the dump, there appears to be some form of memory corruption, but not enough information was available to determine the cause. We have not been able to reproduce the problem and a search for past panics similar in nature has proven to be unsuccessful. All information on this panic will be logged for future use. On the agreement of the customer this STR is closed.

STR: NASC-22115 DG/UX Base System for AViiON
ORIG-ID: U763853

Module: LPNET
Rev: 3.10

Problem Summary:

Using lpsched to talk to remote BSD printer. If we cancel a job while it is printing, lpstat shows job as cancelled, but lpNet continues to send the print data to completion.

Answer Summary:

implementation on the remote network printer. We recommend using 'Remote to a Network Printer' and the interface script termprinter_tcp or termprinter_telnet for interfacing this type of printer to DG/UX.

STR: NASC-22160 DG/UX Base System for AViiON
ORIG-ID: U749979

Module: LPNET
Rev: 3.10

Problem Summary:

BSD print requests received from host "mesa1" are accepted by lpNet, but do not print.

Answer Summary:

The system "mesa1" is requesting a width=250 on printer "lp" and lpNet is mailing the user the invalid option report missing the offending option. This problem is fixed in the lpNet(1M) that will ship with DG/UX R4.10.

STR: NASC-22075 DG/UX Base System for AViiON
ORIG-ID: U715126

Module: LPSCHED
Rev: 3.10

Problem Summary:

Intermittently job will hang up in the queue with a finished printing status. The queue is hung until lpsched is restarted.

Answer Summary:

The problem you reported is fixed in the lpsched(1M) that will ship with DG/UX R4.10. The lpsched logfiles you provided from the system hounx shows the error message "UX:lpsched: ERROR: Received unexpected signal 10; terminating". This error will cause the request to hang in the queue until lpsched is restarted.

STR: NASC-22110 DG/UX Base System for AViiON
ORIG-ID: U750765

Module: LPSCHED
Rev: 3.10

Problem Summary:

Standard model file does not handle "nofilebreak" option correctly.

Answer Summary:

The nofilebreak option only affects the issuing of formfeeds between files if more than one file is specified by the request. The man page for lp(1) states "nofilebreak Do not insert a form feed between the files given, if submitting a job to print more than one file." A formfeed is always issued between print requests.

STR: NASC-22018 DG/UX Base System for AViiON
ORIG-ID: U749678

Module: PASSWD
Rev: 3.10

Problem Summary:

If username is longer than 8 characters, the passwd command fails to change the passwd. The ypasswd command will change it if logged in as root. If the user tries to change it, he gets error "user not found."

Answer Summary:

In order to update the password for a user when the username is greater than 8 characters, you must supply the username with the passwd(1) or ypasswd(1) command. This will be true, as well, in DG/UX R4.11, although the error messages when the username is not supplied will be improved.

STR: NASC-22104 DG/UX Base System for AViiON
ORIG-ID: U761280

Module: RESTORE
Rev: 3.00

Problem Summary:

When doing a restore of a file on a single volume dump2 backup, we get prompted for the next volume even though it is a single volume backup.

Answer Summary:

The problem you encountered is due to a bad tape. The tape is unreadable when it reaches a certain point. The restore(1M) command fails consistently with a media error when we attempt to restore it. Attempts to extract the data off the tape with dd(1) also fail with a media error and /var/adm/messages shows that hard errors are encountered when reading this tape.

STR: NASC-21966 DG/UX Base System for AViiON
ORIG-ID: X000578

Module: RESTORE
Rev: 3.10

Problem Summary:

Restore, accessed through sysadm, core dumped when the file template being used did not resolve to any filenames on tape.

Answer Summary:

The problem you reported is fixed in the version of restore that will ship with DG/UX Revision 4.11.

STR: NASC-21878 DG/UX Base System for AViiON
ORIG-ID: E446593

Module: SYSLOGD
Rev: 3.10

Problem Summary:

Tape errors are going to /var/adm/messages, but they are also going to an undesirable pseudo terminal.

Answer Summary:

As per our conversation, we are closing this STR since you are no longer experiencing the problem. If the problem happens to reoccur, then please submit a new STR making reference to this incident.

STR: NASC-22177 DG/UX Base System for AViiON
ORIG-ID: U774878

Module: TAR
Rev: 3.10

Problem Summary:

The "tar -u" command does not work when using a disk file.

Answer Summary:

When the -u option is used to archive to a disk file, the -n option must also be used. See the tar(1) man page and its discussion of -n.

STR: NASC-21986 DG/UX Base System for AViiON
ORIG-ID: U745769

Module: TR
Rev: 3.00

Problem Summary:

We request that the bug noted in the man page for the "tr" command be fixed. The "tr" command is used extensively in our day-to-day operations and this bug impacts our productivity and confidence in the generated output.

Answer Summary:

Problem has been resolved in R4.11. The tr command is very robust and reliable. It just doesn't handle null characters.

STR: SWIT-743 DG/UX Base System for AViiON
ORIG-ID: GER-950919

Module: UNKNOWN
Rev: 3.10

Problem Summary:

On both systems SMP4000 Dual and Quad - CPU: we did not succeed to install Windows NT independent of any additional card (i.e. also with none). Both systems showed the same error message.

Answer Summary:

This STR references a problem which does not involve DG/UX. In fact DG/UX is not installed on the system with the reported problem. Please direct any further problem reports to the correct product.

STR: NASC-22029 DG/UX Base System for AViiON
ORIG-ID: U720961

Module: USERMOND
Rev: 3.10

Problem Summary:

Problem with /etc/userlicense.dat getting corrupted.

Answer Summary:

The problem you reported is fixed in the usermond(1M) that will ship with DG/UX R4.11. usermond(1M) has been changed to no longer update the /etc/userlicense.dat file.

DG/UX C++ for M88000 Model: L018A

STR: INTL-1200 DG/UX C++ for M88000

Module: N/A

ORIG-ID: 66VIE9506AK

Rev: 3.50

Problem Summary:

Intermittent system hangs. No input/output on Master console possible.

Answer Summary:

This problem is corrected in the next revision of EPC C++.

STR: NASC-22105 DG/UX C++ for M88000

Module: N/A

ORIG-ID: U761868

Rev: 3.50

Problem Summary:

Error: "Illegal # directive 'module'" when compiling with EPC C++ compiler. The same code can be compiled with other Data General C++ compilers.

Answer Summary:

This problem is corrected in the next revision of EPC C++.

DG/UX GNU C for AViiON Model: P001A-C

STR: NASC-21964 DG/UX GNU C for AViiON

Module: N/A

ORIG-ID: U743630

Rev: 2.58

Problem Summary:

Some double values are not rounded up correctly on DG/UX revision 5.4.R3.10 with Gcc version 2.5.8.

Answer Summary:

This problem is corrected in the C libraries that will ship with DG/UX revision 4.11.

DG/UX Package for AViiON (pre-Rev 5.4) Model: P001A

STR: EURO-661000127DG/UX Package for AViiON (pre-Rev 5.4) Module: LPNET
ORIG-ID: DENMARK - LPN Rev: 3.10

Problem Summary:

Using lpsched to talk to remote BSD printer. If cancel a job while it is printing, lpstat shows job as cancelled, but lpNet continues to send the print data to completion.

Answer Summary:

implementation on the remote network printer. We recommend using 'Remote to a Network Printer' and the interface script termprinter_tcp or termprinter_telnet for interfacing DG/UX to these type of devices.

DG/UX X Windows for AViiON Model: H001A

STR: NASC-22063 DG/UX X Windows for AViiON Module: N/A
ORIG-ID: U757810 Rev: 3.10

Problem Summary:

The man page for XSynchronize is incorrect. It points to the man page for XFlush and XSync.

Answer Summary:

This problem is corrected in the man pages that will ship with DG/UX revision 4.11.

FTAM for AViiON Systems Model: C095A

STR: EURO-615303499FTAM for AViiON Systems Module: N/A
ORIG-ID: HMCE FTAM REJ Rev: 3.30

Problem Summary:

FTAM connect request from aviion to ICL mainframe rejected by ICL, because of ISO 8571-3 spec violation by aviion.

Answer Summary:

Referring to ISO 8571-3 Section 10.3 "Functional Units". AV/FTAM is proposing a valid set of parameters on the F-INIT-Req. The ICL side should not be rejecting the packet.

FrameMaker for AViiON Systems Model: A012B

STR: NASC-22079 FrameMaker for AViiON Systems

Module: N/A

ORIG-ID: U756145

Rev: 4.00

Problem Summary:

"maker: Internal error 0 in version 4" occurs attempting to open the enclosed Frame document. A core file is created.

Answer Summary:

It appears that this file was damaged prior to opening in FrameMaker 4. The only recommendation is to recover from a backup or run unix strings and extract the text by editing the resulting file. An example of strings usage: strings draft.doc > draft.txt. We suggest if you have a backup of this file: save the file in a MIF format with Frame 3.1, then open it within Frame 4.0.

Green Hills Fortran 77 for AViiON Model: L002A

STR: NASC-20949 Green Hills Fortran 77 for AViiON

Module: N/A

ORIG-ID: U633270

Rev: 1.87

Problem Summary:

The C preprocessor is not being invoked under 1.8.7 of Green Hills Fortran 77 as it did under 1.8.6.

Answer Summary:

C preprocessor support has been removed from Green Hills F77. This is a nonstandard feature and the vendor has no plans to include it in any future revisions of the F77 product. We are closing this STR with your approval via conference call.

Legato Networker for AViiON Model: Q017A

STR: EURO-618115962 Legato Networker for AViiON

Module: DB.SCAVENGE

ORIG-ID: NETWORKER SCA

Rev: 4.01

Problem Summary:

When Networker needs to rebuild an index file it creates a db.SCAVENGE file in file system containing the index, if there is insufficient space in the file system it finds space in another file system which may be critical to system.

Answer Summary:

The problem you reported is fixed in the version of Networker that will ship with DG/UX Revision 6.00.

NetWare Services for AViiON Systems Model: C020A

STR: NASC-22137 NetWare Services for AViiON Systems

Module: ENGINE

ORIG-ID: U765951

Rev: 3.00

Problem Summary:

All of our NetWare users suddenly hung. Eventually, the log file began to fill with watchdog timer messages. No new connections could be established, even for the ulist utility. We identified an NW engine consuming high amounts of CPU.

Answer Summary:

The NetWare engine was looping while trying to determine a trustee assignment for an invalid NetWare inode number of 0. This indicates that there is probably slight corruption of the NetWare inode file. We recommend that you do a "compressnw" to clean up the inode file to avoid future problems like this.

NetWare Transport for AViiON Systems Model: C021A

STR: INTL-1198 NetWare Transport for AViiON Systems

Module: NVT

ORIG-ID: 3008845

Rev: 3.00

Problem Summary:

Users cannot connect to the AViiON. NVT needs to be stopped and restarted on the AViiON to clear the problem.

Answer Summary:

We understand that this problem was corrected by increasing the kernel parameters NQUEUE to 4096 and PTYCOUNT to 256 as is referenced in the prototype file for NetWare Transport.

STR: NASC-22039 NetWare Transport for AViiON Systems

Module: NVT

ORIG-ID: E447922

Rev: 3.00

Problem Summary:

NetWare for AViiON Systems software version 3.00 and nvt have session re-establishment problems.

Answer Summary:

We have modified NVT.EXE to retry a connection attempt if the first one fails. You may need to hit the newline key more than once to get a new login prompt, but you won't need to set up a new NVT session. This problem is fixed with patch 45 to NetWare for AViiON rev. 3.00 which has been made available to you.

STR: NASC-21724 NetWare Transport for AViiON Systems
ORIG-ID: U711753

Module: SPX
Rev: 3.00

Problem Summary:

After upgrading from Release 2.30 Netware Transport to Release 3.00 Netware Transport, Oracle 7.1.4 fails to communicate correctly. The problem has been identified to be a t_accept system call which hangs; never returns.

Answer Summary:

Originally this STR was answered with patch 41 to NetWare for AViiON. We have revisited that patch, and replaced it with patch 43, which has already been sent to you. Now the t_accept call will time out with a t_errno of TSYSEERR, and a UNIX errno of ETIMEDOUT. This will occur after the t_accept waits 60 seconds for the calling client to respond.

STR: SWIT-735 NetWare Transport for AViiON Systems
ORIG-ID: MAD-950614

Module: SPX
Rev: 3.00

Problem Summary:

System panic 41000050 occurred. Enclosed two tapes (system dump and dgux in tar format).

Answer Summary:

We found a very small window in NetWare's SPX module that would cause a panic as you have seen. We don't believe you will see such a panic again. We will fix this problem in revision 3.10 of NetWare for AViiON Systems, due out in September.

OSI/Platform for AViiON Systems Model: C094A

STR: EURO-615401285OSI/Platform for AViiON Systems
ORIG-ID:

Module: N/A
Rev: 3.30

Problem Summary:

2000075 panic in the osip package.

Answer Summary:

The panic was caused when osip tried to free an internal message using an a pointer that was not set correctly. This panic will be fixed in OSIP Rev 3.31

OpStar Opt. Disk JB Pkg Model: A227A

STR: GER-15346 OpStar Opt. Disk JB Pkg
ORIG-ID: 3102678

Module: N/A
Rev: 2.01

Problem Summary:

Documentation errors fore mount commant timeout values

Answer Summary:

This manual cited in this STR is being obsoleted when the next revision of Opstar is released. Therefore, there are no current plans to update it.

STR: NASC-21698 OpStar Opt. Disk JB Pkg
ORIG-ID: U688629

Module: N/A
Rev: 2.01

Problem Summary:

Data requires more space on platters after upgrading OpStar from 1.60 to 2.01.

Answer Summary:

The reason that the optical filesystem took up 323mb under 2.01 is that tar writes out only 512 bytes to disk at a time and optical blocks, which are 1024 bytes long, can only only be written to once. Therefore, one half of optical space is wasted. To avoid this, use cpio with the "-C 1024" option for creating and loading backup tapes.

STR: NASC-21711 OpStar Opt. Disk JB Pkg
ORIG-ID: E445223

Module: N/A
Rev: 2.01

Problem Summary:

After upgrading opstar to 2.01, the df command now forces opstar to read every platter to determine the capacity.

Answer Summary:

Under Opstar 1.6, a DG/UX filesystem resided on the optical platter and all filesystem size information was stored in main memory. However, under Opstar 2.01, the platters contain a special filesystem which is optimized for optical storage.

PI/open for AViiON Systems (USA) Model: D061A

STR: NASC-22107 PI/open for AViiON Systems (USA)
ORIG-ID: U758896

Module: N/A
Rev: 3.50

Problem Summary:

The size of a PI/open dictionary is increased to almost 12.5 Mbytes while the size of its copy is about 140 Kbytes. Therefore, the listing of this dictionary is very slow.

Answer Summary:

Analysis of the dictionary file you provided us shows that the default configuration parameters have been modified. The following command will not only restore the dictionary back to its default settings, it will also increase performance and decrease the amount of disk space used. At TCL in the appropriate account type: CONFIGURE.FILE DICT WH.ISSUES DEFAULTS.

STR: NASC-22000 PI/open for AViiON Systems (USA)
ORIG-ID: U748501

Module: N/A
Rev: 3.60

Problem Summary:

PI/open users are hung on "Waiting for lock 0x444a7cf8". Then, PI/open had to be rebooted. The environment included PI/open version 3.6 and DG/UX revision 5.4R3.10.

Answer Summary:

We understand that after upgrading to release 3.6.r2 of PI/open you have not experienced the "Waiting for lock" message as described in this STR. We are, therefore, closing this STR with your approval. If you experience any further problems please report them to the Customer Support Center.

Relational Data Base for AViiON Systems Model: A445A

STR: NASC-19725 Relational Data Base for AViiON System
ORIG-ID: U508360

Module: N/A
Rev: 3.30

Problem Summary:

When there are no redo logfiles to back up, the Automated Redo Logfile Backup hangs and then terminates.

Answer Summary:

This is changed in revision 3.40 of DG/MedArchive. The automated RDBMS and REDO logfile backups are no longer supported. When you have loaded and installed this revision of the software, any outstanding automated backups will have cancelled. You will need to manually backup the RDBMS.

STR: NASC-21241 Relational Data Base for AViiion System

Module: N/A

ORIG-ID: D441312

Rev: 3.31

Problem Summary:

Med/Archive is losing track of some ODS files in the /usr/opt/MedArch/cache directory.

Answer Summary:

We can not reproduce the problem in our lab with currently shipping product (DG MedArchive 3.40). Since the problem is associated with bringing the system down for backups, we recommend not bringing the system down as backups of both RDBMS and backup platter will run "hot". We recommend upgrading to current revision.

STR: NASC-22077 Relational Data Base for AViiion System

Module: N/A

ORIG-ID: U751237

Rev: 3.40

Problem Summary:

Received, "Queue to optical disk manager is full, please try again later," when the problem was actually the jukebox controller and not MedArchive software.

Answer Summary:

There is no way to improve the error message returned by DG/MedArchive in this particular case. The Optical Jukebox driver apparently kept re-trying or became hung rather than returning an error to the DG/MedArchive I/O request. Because there was no return to the DG/MedArchive file managers I/O request it was unable to service its' queue, and the queue eventually filled.

SDLC FOR AViiON SYSTEMS Model: C010B

STR: NASC-22054 SDLC FOR AViiON SYSTEMS

Module: N/A

ORIG-ID: F-U750978

Rev: 0.00

Problem Summary:

Something is using up STREAMS memory and not releasing.

Answer Summary:

The streams memory leak was caused by SDLC, and it is fixed in the patch level sdlc_3.20.3 which has been made available to you.

SNA 3270 FOR AViiON SYSTEMS Model: C012B

STR: NASC-21899 SNA 3270 FOR AViiON SYSTEMS

Module: N/A

ORIG-ID: E446989

Rev: 3.10

Problem Summary:

The 3270api fails to transmit certain function keys, particularly PF11 and PF19.

Answer Summary:

A patch to correct this problem is available in the patch level sna3270_3.10.22, which has been provided to you.

STR: NASC-21946 SNA 3270 FOR AViiON SYSTEMS

Module: N/A

ORIG-ID: U738028

Rev: 3.10

Problem Summary:

The SNA/3270 emulator uses an inordinately high amount of CPU time if standard input is a UNIX file instead of the keyboard.

Answer Summary:

The 3270 emulator is using a high amount of CPU time because input has been redirected away from the keyboard. Because de3270 is designed to expect input from the keyboard, we do not consider this to be a problem with the emulator, and we are not planning to modify de3270.

STR: NASC-21947 SNA 3270 FOR AViiON SYSTEMS

Module: N/A

ORIG-ID: E447375

Rev: 3.10

Problem Summary:

The SNA/3270 API has an inordinately high amount of elapsed time to

Answer Summary:

The high elapsed time for the a_wait API call to return from an input inhibited state occurred because de3270 would delay for one second per de3270 program cycle when the TWAIT session parameter was used. The patch level we provided to you, sna3270_3.10.22, includes a patch that implements UWAIT, a new session parameter. UWAIT is like TWAIT, but it will delay for only 1/10th of a second.

SNA FOR AVIIION SYSTEMS Model: C011B

STR: NASC-21737 SNA FOR AVIIION SYSTEMS

Module: N/A

ORIG-ID: E445031

Rev: 4.00

Problem Summary:

Unable to invoke an AViiON LU6.2 program from the AS/400. The AViiON unbinds the session and returns sense code 2001.

Answer Summary:

This problem is fixed in patch 15 for SNA for AViiON Systems Revision 4.00.

SNA RJE FOR AVIIION SYSTEMS Model: C013B

STR: SWIT-734 SNA RJE FOR AVIIION SYSTEMS

Module: N/A

ORIG-ID: CHH-950608

Rev: 4.00

Problem Summary:

Very bad performance when sending files to the IBM host. Receiving files from the same IBM host works 4 times faster. All technical information has been sent to Bill Carnes.

Answer Summary:

The throughput to the IBM host is slower on the AV than the MV because the MV is using compaction, which is not supported by the AV. The AV does support compression, which can be used to increase throughput by decreasing the number of bytes transmitted, but this is not supported by the Power software on the host.

VMARK uniVerse Model: D055A

STR: EURO-617304103VMARK uniVerse

Module: N/A

ORIG-ID:

Rev: 7.31

Problem Summary:

Universe rev 7.3.1.1C. Using TDUMP from a McDonald Douglas system and TLOADing it on Aviiion Universe Reality environment works OK but doing the operation in reverse does not because the label header of the TDUMP does not use an 80 char

Answer Summary:

Vmark has incorporated the fix for this problem into release 8 of uniVerse. If after upgrading you continue to experience problems, please contact your customer support center.

STR: NASC-22203 VMARK uniVerse
ORIG-ID: U776824

Module: N/A
Rev: 7.32

Problem Summary:

LIST.READU EVERY doesn't return the correct DEVICE entry under rev 3.10 of Unix.

Answer Summary:

LIST.READU is continuing to display the devices major/minor number; whereas, df -g is displaying the filesystem id. Please see attached for a detailed description and workaround.

STR: INTL-1179 VMARK uniVerse
ORIG-ID: 491775

Module: N/A
Rev: 7.33

Problem Summary:

Upgraded to UniVerse 7.3.3.1. Since then the process of actualization for each month is hung.

Answer Summary:

GTAR 14126 was discovered in uniVerse release 7.3.3 related to memory allocation on a process doing a remote file open (using Q-pointers). This problem was addressed in releases 8.3.1 and higher. Since you have upgraded to 8.3.1 and your process of actualization is not longer hanging, we are closing this STR.

STR: NASC-22162 VMARK uniVerse
ORIG-ID: U772105

Module: N/A
Rev: 7.33

Problem Summary:

Error: "computed blink of 0x991200 does match expected blink 0x47dda00 detected within group starting at address 0x8B52600. Internal error" is given when working with type 18 file.

Answer Summary:

As we discussed in our recent phone conversation, we were unable to determine the cause of your file corruption; but we were able to recover and fix the file.

STR: NASC-22124 VMARK uniVerse
ORIG-ID: U765640

Module: N/A
Rev: 8.31

Problem Summary:

The 'LIST VOC EVAL "LEN(F2)" F2 WITH EVAL 'LEN(F2)' < 2' statement lists all the VOC entries and ignore the '< 2' criteria. The environment included DG/UX revision 5.4R3.10 and uniVerse version 8.311.

Answer Summary:

In the RETRIEVE sentence that you provided, you should be using a FMT qualifier with the EVAL. The User Reference Manual states that if the temporary field has no conversion, its format is 10L. Thus your sentence is comparing the length of F2, a numeric value left justified, to 2, a numeric value right justified. Please modify your sentence to include FMT"2R" to achieve the desired results.

STR: NASC-22073 VMARK uniVerse
ORIG-ID: U755770

Module: N/A
Rev: 8.32

Problem Summary:

ICONV("95 03", "D2 YM") produces a null result and STATUS() returns a "1" indicating that an error occurred. It should produce the number 9922.

Answer Summary:

We are closing this STR per our conversation that the rapid repair provided to you from Vmark has addressed the reported issue. Please make a note that the fix will be included in the shipping version of uniVerse 8.3.3.1. Please upgrade to that release once it is made available.

STR: NASC-22129 VMARK uniVerse
ORIG-ID: U762352

Module: N/A
Rev: 8.32

Problem Summary:

Illegal proverb stmt when using 01AD under rev 8.3.2 of UniVerse.

Answer Summary:

At release 8.3.2, 01AD was missing from uniVerse. We have verified that it does exist at both 8.3.1 and 8.3.3. We have already provided you with the missing 01AD and you have verified that you are no longer seeing the "Illegal proverb statement" when using 01AD.

X.25 for AViiON Systems Model: C008A

STR: NASC-22078 X.25 for AViiON Systems
ORIG-ID: U760257

Module: N/A
Rev: 2.30

Problem Summary:

All of the padd users were suddenly disconnected from the system and could not log back in. Padd was stopped and restarted, and then users could log in again. After approximately 100 users were on, the system panic'd with 2000107.

Answer Summary:

As we agreed, we are closing this STR since this is no longer an issue for you.

STR: NASC-22166 X.25 for AViiON Systems
ORIG-ID: U753010-2

Module: N/A
Rev: 2.30

Problem Summary:

System panic'd with 2m75 shortly after the 2m76 reported under NASC-22140. The two failures are dissimilar. X25 may be the cause of the 2m75. No other detail is available; memory dump was sent directly to Webo.

Answer Summary:

Revision 2.30 is out of the support window. X25 3.00 with patch level 4 should be installed.

STR: EURO-618114860X.25 for AViiON Systems
ORIG-ID: GWYNED HANG

Module: N/A
Rev: 3.00

Problem Summary:

DGUX hangs (twice so far). Has just been uprevved to DGUX 5.4R3.10 + MU01. X25 is rev 3.00 + p01.

Answer Summary:

This problem is believed to be caused by X25 writing to memory it had freed. This problem is fixed in X25 revision 3 patch 3.

SECTION 2:
Product Revision List

OPEN SYSTEMS

SOFTWARE REVISION LIST

The following table summarizes software release activity for Open Systems Software Products for AViiON and 386IX products. It documents the revision, update levels, and date of shipment for current supported product revisions.

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
3270 CLIENT GATEWAY for DG/UX	C189A	2.00	00	12/94	
3270 PC GATEWAY	C189A	2.00	00	12/94	
API LU6.2 AViiON RUNTIME	C160A	3.10	00	11/92	
API LU6.2 FOR AViiON SYSTEMS	C014B	3.10	00	11/92	
API LUO 1, 2, 3 FOR AViiON	C015B	3.10	00	11/92	
AV IMAGE/ARS	D099A &	2.00	00	08/95	
AV IMAGE/ARS FOR ADVANCED PICK	D090A	2.00	00	08/95	
AV IMAGE/ARS FOR PI/OPEN	D091A	2.00	00	08/95	
AV IMAGE/ARS FOR UNIDATA	D092A	2.00	00	08/95	
AVIMAGE/ARS FOR UNIVERSE	D093A	2.00	00	08/95	
AVIMAGE/ARS VIEW CLIENT	D100A	2.00	00	08/95	
AV IMAGE CLIENT	A330B	1.50 1.01	00 00	6/95 4/94	12/95

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
AV IMAGE DB LINK CLIENT	A330A	1.50 1.01	00 00	6/95 4/94	12/95
AV IMAGE INGRES DB LINK	A326A	1.50 1.0	00 00	6/95 11/93	12/95
AV IMAGE INFORMIX DB LINK SERVER	A327A	1.50 1.0	00 00	06/95 11/93	12/95
AV IMAGE SCAN CLIENT	A476A	1.50	00	06/95	
AV IMAGE LINK VIEW	A501A	1.50	00	06/95	
AV IMAGE LINK SCAN	A502A	1.50	00	06/95	
AV IMAGE ORACLE DB LINK	A324A	1.50 1.01	00 00	06/95 12/93	12/95
AV IMAGE SERVER	A323A	1.50 1.01	00 00	6/95 4/94	12/95
AV IMAGE SCANNER (100-users)	A329B	1.01	00	5/94	
AV IMAGE SYBASE DB LINK	A325A	1.50 1.0	00 00	06/95 11/93	12/95
AV IMAGIZER TOOLKIT	A367	1.0	00	11/93	
AV OBJECT OFFICE/MS- WINDOWS	A091A	1.00	00	08/91	
AV OFFICE ADD-ON ENGLISH (AMERICAS)	A103A	1.20	00	09/93	
AV OFFICE DOCCONVERT MICROSOFT WORD MAC	A107A	1.00	00	09/91	
AV OFFICE DOCCONVERT MICROSOFT WORD/PC	A106A	1.00	00	09/91	

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
AV OFFICE DOCCONVERT MICROSOFT WORD/ WINDOWS	A108A	1.00	00	09/91	
AV OFFICE DOCCONVERT MULTIMATE	A109A	1.00	00	09/91	
AV OFFICE DOCCONVERT NAVY DIF	A111A	1.00	00	09/91	
AV OFFICE ENGLISH (AMERICAS)	A102A	1.20	00	09/93	
AV OFFICE FRENCH (CANADA)	A319A	1.00	00	12/92	
AV ONGO OFFICE CLIENT OSF/MOTIF UK	A417A	1.02 1.01	00 00	02/94 10/93	
AV ONGO OFFICE CLIENT	A336A	1.02	00	09/94	
AV ONGO SERVER	A335A	1.02	01	09/94	
AV ONGO CEO LINK	A342A	1.00	00	04/94	
AV ONGO PC VALUE PACK	A338A	1.00	00	04/94	
AV SYSCOPE PERF MONITOR	R062A	1.00	00	01/93	
AViiON DISTRIBUTED LOCK MANAGER	Q042A	1.10	00	02/95	
BUSINESS BASIC FOR AViiON	L005A	1.40 1.40	01 00	05/95 05/94	12/95
BUSINESS BASIC FOR 386/IX	L004A	1.20	00	05/92	

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
C++ (AT&T) - FOR SERVER	L018A	3.50 2.1.2 2.2.1	00 00 00	08/95 05/92 10/91	02/96
CMIP/CMIS AGENT FOR AViiON	C124A	3.10	00	01/93	
DCE CELL DIRECTORY SERVER	C173A	1.00	00	08/93	
DCE GLOBAL DIRECTORY SERVER	C174A	1.00	00	08/93	
DCE ENCRYPTION UTILITIES FOR AViiON	C176A	1.00	00	07/93	
DCE EXECUTIVE FOR AViiON	C177A	1.00	00	08/93	
DCE SECURITY SERVER	C172A	1.00	00	08/93	
DG/ADVANCED PICK FOR AViiON	D058A	6.10 6.1.8	12 00	06/95 11/94	
DG/ADVANCED SERVER for UNIX (formerly LAN MANAGER for AViiON)	C102A	3.00 2.10	00 00	06/95 06/94	01/96
DG ENTERPRISE PLATFORM	C205A	2.00 1.00	00 00	4/95 12/94	10/95
DG/NETBEUI FOR AViiON	C086A	1.10 1.10	01 00	11/93 03/92	
DG SORT/MERGE FOR AViiON	R042A	1.72 1.71	00 00	02/95 05/93	
DG/UNIVERSE (NON-USA)	D063A	8.3.1.1	00	02/95	
DG/UNIVERSE (USA)	D055A	8.3.1.1	00	02/95	
DG/UX CLARiiON MANAGER	Q046A	1.10 1.00	00 00	04/95 12/94	10/95

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
DG/UX MANAGER	Q048A	2.00 1.00	00 00	4/95 12/94	10/95
DG/UX OPERATING SYSTEM	Q501A P001A Q001A	5.4	3.10	09/94	
- B1 TRUSTED	Q012A	5.4	3.10	09/94	
- C2 TRUSTED	Q011A	5.4	3.10	08/94	
DG/UX OPTICAL DRIVER SUITE	R110A	1.00	00	03/95	
DG/UX X.25 FOR AViiON	C008A	3.00	00	04/94	
386/IX ONC/NFS	C005B	2.00	00	10/89	
DG/UX TAPE INTERCHANGE UTILITIES	R032A	1.00	00	04/91	
DYNACOMM ASYNCH	C147A	3.11 3.10	00 03	09/94 06/93	
EXPRESS-TRACK	A497A	1.00	00	06/95	
FONT SERVER FOR 5921 X-TERMINALS	R064A	6.31	00	03/94	
FRAMEMAKER 4.0	A012D A169D A170D	4.0	00	04/95	
FRAMEMAKER DOCUMENT FILTER	A008D	4.00	00	12/94	
FRAMEMAKER 3.0 ENGLISH FLOATING	A012C	3.10	00	03/92	
FRAMEMAKER 3.0 FIXED LIC. ENGLISH	A169A	3.10	00	03/92	
FTAM FOR AViiON	C095A	3.30	00	08/93	

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
GNU TOOLS FOR AViiON	R028A	2.00	00	09/92	
GNU C COMPILER	P001A-C	2.5.8.1	00	09/94	
GREENHILLS C-88000	L001A	1.87 1.86 1.85	00 00 00	05/94 03/92 08/90	
GREENHILLS FORTRAN-88000	L002A	1.87 1.86 1.86 1.85	00 01 00 01	05/94 02/93 03/92 08/90	
GREENHILLS PASCAL-88000	L003A	1.87 1.86 1.86 1.85	00 01 00 01	05/94 02/93 03/92 08/90	
ICOBOL 2 FOR AViiON	L031A	2.00 2.00	02 00	10/94 06/94	
ICOBOL 2 FOR I/UNIX	L033A	2.00 2.00	02 00	10/94 06/94	
ICOBOL2 RUNTIME FOR AViiON	L032A	2.00 2.00	02 00	10/94 06/94	
ICOBOL 2 RUNTIME FOR I/UNIX	L034A	2.00 2.00	02 00	10/94 06/94	
INFOS CONNECTION SERVER FOR AViiON	D057A	1.10	00	02/91	
INFORMIX DB LINK SERVER	A327A	1.10	00	12/93	
INGRES DB LINK SERVER	A326A	1.10	00	09/94	
INTERACTIVE COBOL RUNTIME FOR 386/IX	L014A	1.70	00	08/91	
LEGATO NETWORKER for AViiON	Q017A	4.02 4.00	00 00	09/94 03/94	

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
LEGATO NETWORKER JB MODULE	Q062A	4.02	00	03/95	
MEDARCHIVE for AViiON	A445A	3.40 3.31 3.30 3.30	00 00 02 00	04/95 01/95 06/94 01/94	12/95 12/95 12/95
MEDSCAN for AViiON	A446A	2.10 2.0	00 00	04/95 01/95	12/95
MICROFOCUS COBOL-2 FOR AViiON	L013A	3.20 1.30	00 00	04/95 12/92	11/95
MICROFOCUS COBOL/2 RUNTIME	L027A	3.20 3.11	00 00	04/95 05/94	10/95
MICROFOCUS COBOL/ 2 WITH TOOLBOX	L030A	3.11	00	05/94	
MHS FOR AViiON	C136A	1.20	00	04/93	
MHS GATE FOR AViiON	C162A	1.00	00	03/93	
MICROFOCUS COBOL/ 2 RUNTIME	L027A	3/11	00	05/94	
MICROFOCUS COBOL/ 2 with TOOLBOX	L030A	3/11	00	05/94	
MV DATA CENTER MANAGER FOR AViiON	R045A	1.00	00	01/92	
MXDB FOR AViiON	R007A	3.00	00	04/94	
NCD X-TERMINAL BOOT TAPE	R054A	3.11	00	03/94	
HOST XREMOTE FOR NCD XTERMINALS	R072A	2.48	00	06/94	
NETBIOS/TCP/IP FOR AViiON	C166A	1.10	00	06/94	
NETINFO FOR AViiON	C169A	3.00	00	01/93	
NETWARE (4.X)	C131D	4.10	00	02/95	

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
NETWARE SERVICES FOR AViiON	C020A	3.00	00	07/94	
NETWARE TRANSPORT FOR AViiON	C021A	3.00	00	07/94	
ONC/NFS SYSTEM FOR AViiON	C002A	5.4	3.10	09/94	
OPENMAC/SERVICES FOR AViiON	C148A	1.10	00	06/92	
OPENVIEW Dist Mgmt Dev. Kit	C192A	1.00	00	07/94	
OPENVIEW Dist Mgmt Platform	C191A	1.00	00	07/94	
OPENVIEW Network Mode Manager	C190A	1.00	00	07/94	
OPENVIEW SNMP Dev. Kit	C193A	1.00	00	07/94	
OPSTAR OFM	A226A	2.00 1.60	00 00	09/94 09/93	
OPSTAR OPTICAL DISK JB PKG	A227A	2.01	00	03/95	
OPSTAR OPTICAL DRIVE PKG	A226A	2.01	00	03/95	
OPSTAR VFM	A227A	1.60	00	09/93	
ORACLE DB LINK SERVER	A324A	1.00	00	11/93	
OS/EYE*NODE	C161A	1.00	02	02/94	
OSI/PLATFORM FOR AViiON	C094A	3.30	0	08/93	
PI/OPEN NON-USA	D062A	3.50	00	06/94	
PI/OPEN USA	D061A	3.50	00	06/94	

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
QLLC FOR AViiON	C168A	3.20	00	03/93	
RBCS FOR AViiON	C181A	1.00	00	09/93	
SAROS DOCUMENT MANAGER	A440A	1.10 1.0	00 00	01/95 05/94	12/95
SCO UNIX OS INTERNATIONAL	Q026A	4.20	00	10/93	
SDLC FOR AViiON	C010B	3.20	00	07/94	
SECURE RPC FOR AViiON	R010A	4.30	00	07/90	
SNA FOR AViiON	C011B	4.00	00	05/94	
SNA 3270 FOR AViiON	C012B	3.10	00	12/92	
SNA RJE FOR AViiON	C013B	4.00	00	02/94	
SNA TOKEN RING FOR AViiON	C121A	3.10	00	11/92	
SOFTPC	A001B	3.00	00	12/93	
SYBASE DB LINK SERVER	A325A	1.00	00	05/94	
TCP/IP FOR AViiON	C001A	5.4	3.10	09/94	
TUXEDO SYSTEM/T KERBEROS	Q039A	2.00	00	07/94	
TUXEDO SYSTEM/WS KERBEROS	Q040A	2.00	00	07/94	
TUXEDO SYSTEM/T FOR AViiON	Q013A	4.20 4.00	00 00	07/94 03/92	
TUXEDO SYSTEM/VS FOR AViiON	Q014A	4.20 4.00	00 00	07/94 03/92	
UIM/X FOR AViiON	R033A	2.50	00	09/93	
VTP FOR AViiON	C096A	3.30	00	07/93	

Table 1:

PRODUCT	MODEL #	REV.	UPD.	SHIPPED	SUPPORT ENDS
WESTERN EUROPEAN SYSTEM MESSAGES	Q019A	3.0	00	06/94	
WINTRACK/SYBASE CLIENT	A496A	4.90	00	06/95	
X.400 FOR AViiON	C098A	4.00	00	04/94	
XTP FOR AViiON	C167A	1.00	00	01/93	
X WINDOWS (AViiON)	H001A	5.4	3.10	09/94	

SECTION 3:
Comment Form

NEWSLETTER COMMENTS FORM

Your Name: _____

Your Title: _____

Company Name: _____

Street: _____

City: _____ State: _____ Zip: _____

Account Number: _____

WHO ARE YOU?

- _____ EDP/MIS Manager
- _____ Analyst/Programmer
- _____ Senior System Analyst
- _____ Operator
- _____ Engineer
- _____ End User
- _____ Other

HOW DO YOU USE THIS NEWSLETTER? (List in order with 1 = to Primary Use)

- _____ Introduction to the product
- _____ Reference
- _____ Other

ABOUT THE NEWSLETTER:

- Is it easy to read? Y(es) or N(o) _____
- Is it easy to understand? Y(es) or N(o) _____
- Are the topics logically organized? Y(es) or N(o) _____
- Can you easily find what you want/ Y(es) or N(o) _____
- Does it tell you everything you need to know? Y(es) or N(o) _____

COMMENTS: _____

-----**(Fold along this line, staple to close, and add a stamp)**-----

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Newsletter Editor
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USA**

-----**(Fold along this line)**-----