

ARIX
Corporation

*ARIX OS90
Supplemental Software Release 2*

for OS90 Release 3.3

ARIX
Computer Corporation

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Part No. IP-07685-00 Rev. A

ARIX OS90 Release 3.3
Supplemental Software Release 2
IP-07685-00 Rev. A
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Installation Procedure for SSR 2

INTRODUCTION

This Supplemental Software Release (SSR) tape contains a selection of Customer Patch Releases (CPRs) for ARIX OS90 Release 3.3. Using this tape eliminates the need for installing these fixes separately. The format of the tape is an install record and a set of binary files designed to be used by the **sysadm(1)** script.

INSTALLATION PROCEDURE

1. Log on to the system as root and shut the system down, remaining in single-user mode, by entering the following command:

shutdown -g0 -y

This command immediately shuts the system down to single-user mode.

2. Mount the */usr* file system, enter:

mount /usr

This command gives you access to the */usr* file system while the system is in single-user mode.

3. Load the SSR tape into the tape drive, then invoke the **sysadm(1)** menu system, enter:

sysadm

The system responds with:

1	diskgmt	disk management menu
2	filegmt	file management menu
3	machingmt	machine management menu
4	packagemgmt	package management menu
5	softwaremgmt	software management menu
7	syssetup	system setup menu
8	tapemgmt	tape management menu
9	usergmt	user management menu

Enter a number, a name, the initial part of the name, or ? or ,number?? for HELP, q to QUIT:

4. Choose the software management menu by typing:

5

The system responds with:

```
1 installpkg  install new software package onto built-in disk
2 listpkg     list packages already installed
3 removepkg   remove previously installed package from built-
              in disk
```

Enter a number, a name, the initial part of a name, or
? or <number>? for HELP, ^ to GO BACK, q to QUIT:

5. Choose installpkg by typing:

1

The system responds with:

Are you installing a new package, or do you want to re-install
a package previously removed by removepkg [i, r, q]:

6. Choose install new package by typing:

i

If prompted, supply the names of tape drive devices where the installation
tape is located (for example, /dev/rmt0). Various messages, as shown in the
following example, will be displayed to the console as the installation
progresses.

```
SSR 2 for Release 3.3 (020 and 040)
Loading the 0x0 system update

(files are listed as they are read from the tape)
Loading the generic system update ...

(files are listed as they are read from the tape)
Making a new kernel ...
```

After the kernel is made, the following message is displayed:

```
arix.date is now installed in root directory.
Review ./README for the remainder of the
installation procedure.
```

```
Please reboot the system, using the new kernel
after this installation procedure is finished.
```

Additional messages are displayed, ending with the following prompt:

```
The installation of SSR has been completed.
Installation completed
Press the RETURN key to see the software mgmt menu [?, ^, q]
```

At this point, the software installation is complete. Type q to exit from
sysadm.

7. Reboot the system using the standard boot procedures (see the *ARIX OS90 Release 3.3 System Administrator's Guide* for details of this procedure). The kernel to be rebooted should be *arix.date* where *date* is today's date in MMDD format. (for example *arix.0211*)
8. When the system enters single-user mode, link the new kernel to */arix* using the following commands:

```
cd /
mv arix arix.old
ln arix.date arix
```

TAPE CONTENTS SUMMARY

The changes included on this SSR tape are as follows:

- */bin/mail, /bin/mailx*

The change to *mail(1)* and *mailx(1)* correct the displayed return address of mail sent over a network. Previously, the sender displayed was always *root*.

- */bin/touch*

The *touch(1)* update corrects an error that generated a segmentation violation. This would happen when a *touch* command was initiated from the console to run in the background, and the user logged out before the *touch* command was run.

- */bin/las*

This change corrects an improper optimization of the C code:

```
'asm ("pea cc")'
```

- */usr/bin/nawk*

This update changes the command line argument processing to resemble more closely that of systems other than AT&T UNIX 5.3.2.1. Additionally, the number of allowed fields in an input line have been increased from 100 to 200 and the variable names on the command line may now include an underscore.

- */usr/bin/lp*

This update allows the use of the "class" mechanism. Previous versions did not allow printing to classes of printers.

In addition, */usr/lib/lpsched* has been modified to match the behavior defined in *enable(1)* under *disable*. Previously jobs in process on the queue were being removed from the queue instead of being requeued or moved to another printer in the same class.

- */lib/libc.a*

The *_getuse.o* module was modified to reflect the correct date for the start of daylight savings time in the United States, the first Sunday in April.

- A kernel update corrects the running of paged mode binaries. An update to the IO library was also provided to correct problems with uugetty dropping DTR on modem calls.

A more complete description of the changes made to the kernel follows:

- The copyright message printed on system startup has been updated.
- A system mode bus error is no longer produced when running large paged binary files while memory is low.
- The system no longer loses memory permanently to the page table free list.
- A diagnostic message is no longer displayed on the console when a system call is given a bad user address.
- The mirror master file (*/etc/master.d/mirror*) has been edited so that the compiler will not issue error messages when mirroring is turned off.
- An update corrects problems with the copy-on-write after fork with shared library.
- Corrected error message in *usrxmemflt* for 68040. Removed the "bogus ATC fault" message that occurred when using *printf*.
- Updated *lpm* so that *M_DATA* messages are discarded on the read side of the stream when *lpm* is under *ioctl* control. Also added code to retain the order of *ioctls* and data messages.

An additional update was made to *lpm* to correct the bus error message that occurred when *lpm* responded to *IOC_DATA* messages (return acknowledge to the stream head) then passed the message to the next module. Now *lpm* passes the *IOC_DATA* message down to the next module with no response (acknowledge to stream head).

- The *dsdb* passthru driver now allows a utility using the driver to issue a "request sense" SCSI command. Previously, issuing such a command would crash the IOPM.

FILE LISTING

The following files are included on the SSR #2 tape.

The first logical file (4 blocks) contains:

```
INSTALL
ssr_3.3.name
```

The second logical file (8310 blocks) contains:

```
arix.4:3.3-S2
arix.NDBG
arix.DBG
etc/master.d/kernel
usr/arix
usr/sys/debug/pm/arix
usr/sys/debug/pm/lib.io
usr/sys/debug/pm/lib.ml
usr/sys/debug/pm/lib.os
usr/sys/debug/pm/lib.s5
usr/sys/debug/pm/lib.s54k
usr/sys/lib/lib.io
usr/sys/lib/lib.ml
usr/sys/lib/lib.os
usr/sys/lib/lib.s5
usr/sys/lib/lib.s54k
usr/sys/debug/dsdb/iopm.dsdb.NDBG
usr/sys/debug/dsdb/iopm.dsdb
iopm/iopm.dsdb
bin/as4
bin/as
lib/optim4
lib/optim
lib/optim2
```

The third logical file (7485 blocks) contains:

```
arix.2:3.3-S2
arix.NDBG
arix.DBG
usr/arix
usr/sys/debug/pm/arix
usr/sys/debug/pm/lib.io
usr/sys/debug/pm/lib.os
usr/sys/debug/pm/lib.s5
usr/sys/debug/pm/lib.s54k
usr/sys/lib/lib.io
usr/sys/lib/lib.os
usr/sys/lib/lib.s5
usr/sys/lib/lib.s54k
usr/sys/debug/dsdb/iopm.dsdb.NDBG
usr/sys/debug/dsdb/iopm.dsdb
```

iopm/iopm.dsdb
bin/as2
bin/as
bin/as4
bin/optim2
bin/optim
bin/optim4

The fourth logical file (883 blocks) contains:

gettimer.o
settimer.o
_getusa.o
bin/touch
bin/as3
bin/mail
bin/rmail
usr/bin/mailx
usr/bin/nawk
usr/bin/lp
usr/bin/lpsched
usr/sys/debug/acdb/lpmod
usr/sys/debug/acdb/lpmod.NDBG
iopm/did/lpmod

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PROD. RELEASE PER ECO #1972	3/2/92	DR

*TRPK
26-07634-00A*

ARIX
CORPORATION 871 FOX LANE • SAN JOSE, CA 95131

**INSTALLATION PROCEDURE,
SUPPLEMENTAL SOFTWARE RELEASE #1
FOR SYSTEM90 3.3 OPERATING SYSTEM**

DR	
CK	
ME	
EE	
PE	

SCALE	A	DWG NO.	REV
SHT 1 OF 5		IP-07635-00	A

Supplemental Software Release #1 - IP-07635-00
System90 3.3 Operating System

1.0 INTRODUCTION TO SSR#1

This tape contains a selection of Customer Patch Releases (CPRs) for ARIX OS90 Release 3.3. The use of this tape eliminates the need for installing these fixes separately. The format of the tape is an install record and a set of binary files designed to be used by sysadm(1).

2.0 INSTALL PROCEDURE

1. Log in as root, shut the system down, and remain in single-user mode:

```
# shutdown -g0 -y
```

This command immediately shuts the system down to single-user mode.

2. Mount the /usr filesystem:

```
# mount /usr
```

This command gives you access to the /usr filesystem while the system is in single-user mode.

3. Load the SSR tape provided into the tape drive.

4. Invoke the sysadm(1) menu system:

```
# sysadm
```

5. At the SYSTEM ADMINISTRATION menu type:

```
5
```

to select "softwaremgmt".

6. At the SOFTWARE MANAGEMENT menu type:

```
1
```

to select "installpkg".

7. The system responds with the following message:

```
Are you installing a new package, or do you want to re-install  
a package previously removed by removepkg [i, r, q]:
```

Respond by typing the following:

```
i
```

8. At this point, the software installation begins. Messages are displayed as the installation progresses:

```
SSR 1 for Release 3.3 ( 020 and 040 )  
Loading the 0x0 system update ...
```

(files are listed as they are read from the tape)

```
Loading the generic system update ...
```

(files are listed as they are read from the tape)

Making a new kernel ...

After the kernel is made, the following message is displayed:

```
arix.date is now installed in root directory.  
Review ./README for the remainder of the  
installation procedure.
```

```
Please reboot the system, using the new  
kernel, after this installation procedure is finished.
```

Additional messages are displayed, ending with the following prompt:

```
The installation of SSR has been completed.
```

```
Installation completed
```

```
Press the RETURN key to see the software mgmt menu [?, ^, q]:
```

At this point, the software installation is complete. Type the following to exit from sysadm:

```
q
```

9. Reboot the system using the standard boot procedure (see the ARIX OS90 Release 3.3 System Administrator's Guide for details of this procedure). The kernel to be rebooted should be arix.date where 'date' is today's date in MMDD format (for example, arix.0211).
10. When the system enters single-user mode, link the new kernel to /arix as follows:

```
# cd /  
# mv arix arix.old  
# ln arix.date arix
```

3.0 TAPE CONTENTS SUMMARY

The changes included on this SSR tape are as follows:

. /bin/mail, /bin/mailx

The change to mail(1) and mailx(1) correct the displayed return address of mail sent over a network. Previously, the sender displayed was always root.

. /bin/touch

The touch(1) update corrects an error that generated a segmentation violation. This would happen when a touch command was initiated from the console to run in the background, and the user logged out before the touch command was run.

. /bin/as

This change corrects an improper optimization to the C code:

```
asm ("pea cc");
```

. /usr/bin/nawk

This update changes the command line argument processing to

resemble more closely that of systems other than AT&T UNIX 5.3.2.1.

A kernel update corrects the running of paged mode binaries and replaces two modules in /lib/libc5.a that made incorrect calls to the kernel. Previously, the incorrect calls resulted in illegal system call signals.

The kernel changes are as follows:

- A system mode bus error is no longer produced when running large paged binary files while memory is low.
- The system no longer loses memory permanently to the page table free list.
- A diagnostic message is no longer printed on the console when a system call is given a bad user address.
- The copyright message printed on system startup has been updated.

4.0 FILE LIST

The following files are included on the SSR tape.

The first logical file (4 blocks) contains:

```
INSTALL
ssr_3.3.name
```

The second logical file (8310 blocks) contains:

```
arix.4:3.3-S1
arix.NDBG
arix.DBG
etc/master.d/kernel
usr/arix
usr/sys/debug/pm/arix
usr/sys/debug/pm/lib.os
usr/sys/debug/pm/lib.s5
usr/sys/debug/pm/lib.s54k
usr/sys/lib/lib.os
usr/sys/lib/lib.s5
usr/sys/lib/lib.s54k
bin/as4
bin/as
bin/as2
```

The third logical file (7485 blocks) contains:

```
arix.2:3.3-S1
arix.NDBG
arix.DBG
usr/arix
usr/sys/debug/pm/arix
usr/sys/debug/pm/lib.os
usr/sys/debug/pm/lib.s5
usr/sys/debug/pm/lib.s54k
usr/sys/lib/lib.os
usr/sys/lib/lib.s5
usr/sys/lib/lib.s54k
bin/as2
bin/as
bin/as4
```

The fourth logical file (883 blocks) contains:

Products Required for ARIX OS90 Release 3.3

DATE: April 15, 1992

When an upgrade is performed from ARIX OS90, Release 3.2 to ARIX OS90, Release 3.3, the communications and database software also must be upgraded. The chart below indicates the release numbers of all the software that is used with the ARIX OS90, Release 3.3. Earlier releases of the software should not be used with ARIX OS90, Release 3.3. The part number provided includes the tape and the documentation.

Communications:

Part Number	Description	Release Number	Status
-----	-----	-----	-----
NFS			
97-07609-00	NFS 3.3 68040 IOPM S90	3.3	Not Released
97-07611-00	NFS 3.3 68020 IOPM S90	3.3	Not Released
RFS			
97-07622-00	RFS 3.3 FOR OS90 68020	3.3	Not Released
97-07626-00	RFS 3.3 FOR OS90 68040	3.3	Not Released
COMMUNICATIONS DRIVER			
97-07629-00	LAN/WAN DRIVER 1.2 S90	1.2	Released
TCP/IP			
97-07333-00	TCP/IP 1.2 IOPM S90	1.2	Released
BISYNC			
97-06071-00	BSC 3270 S90 IOPM	4.0.1	Not Released
97-06073-00	BSC 2780/3780 S90 IOPM	4.0.1	Not Released
97-06075-00	BSC HASP S90 IOPM	4.0.1	Not Released
97-07130-00	BSC 3270 IOPM S90	4.0.1	Not Released
97-07132-00	BSC 2780/3780 IOPM S90	4.0.1	Not Released
97-07134-00	BSC HASP IOPM S90	4.0.1	Not Released
X.25			
97-07674-00	ASSY X.25 1.2 S90	1.2	Not Released
Database:			
ORACLE			
97-07641-00	ASSY ORC 6.0.33.1 RDBMS	6.0.33	Not Released
97-07643-00	ASSY ORC 6.0.33.1 SQL PLUS	6.0.33	Not Released
97-07645-00	ASSY ORC 6.0.33.1 SQL FORMS	6.0.33	Not Released
97-07647-00	ASSY ORC 6.0.33.1 SQL RPTWRTR	6.0.33	Not Released
97-07649-00	ASSY ORC 6.0.33.1 SQL MENU	6.0.33	Not Released
97-07651-00	ASSY ORC 6.0.33.1 SQL CALC	6.0.33	Not Released
97-07653-00	ASSY ORC 6.0.33.1 PRO C	6.0.33	Not Released
97-07655-00	ASSY ORC 6.0.33.1 FORTRAN	6.0.33	Not Released
97-07657-00	ASSY ORC 6.0.33.1 PRO COBOL	6.0.33	Not Released
97-07659-00	ASSY ORC 6.0.33.1 NET TCP/TLI	6.0.33	Not Released
97-07661-00	ASSY ORC 6.0.33.1 SQL ASYNC	6.0.33	Not Released