

This technical note discusses how to change your Apple Workgroup Server 95 (AWS 95) File/Print Server running AppleShare Pro to be a Apple® Workgroup Server 95 Database Server running Oracle 7.

Introduction

Changing to an Apple Workgroup Server 95 Database Server requires the following steps to be taken:

- 1) Verify that you have a minimum of 32MB of DRAM, and hard drive capacity of 500MB or larger (A minimum size of 500MB is recommended).
- 2) Verify that you have the *Apple System Software Installer File & Print Service Environment for AWS95* CD.
- 3) Verify that you have the *Oracle7 Server for A/UX Developer's Release III Version 7.0.12* CD.
- 4) Backup your File/Print Server and your applications (the disc will be partitioned and all old data will be lost).
- 5) Using the Apple HD SC Setup v3.0.1 (A/UX), partition the disc for Database Server System.
- 6) Install the following A/UX software from *Apple System Software Installer File & Print Service Environment for AWS95* CD
 - Core A/UX System
 - More UNIX Utilities
 - Network Capability
 - Manual Pages
- 7) Add the Oracle Database Server software to Apple Workgroup Server 95.
- 8) Configure A/UX 3.0.1 kernel for Apple Workgroup Server 95 Database Server.
- 9) Reconfigure any custom A/UX changes that were previously in place, e.g. IP address.
- 10) Restore your applications.

File/Print Server Backup

Backup of the File/Print Server should be accomplished by following your site's backup procedures. We recommend using Retrospect for this purpose. For information on how to use Retrospect, refer to the *Retrospect User's Guide*.

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Apple Workgroup Server 95 Cache Settings

You must ensure your Apple Workgroup Server 95 has adequate cache settings to be configured

for your specific needs. For more information on cache settings, refer to the technical note *AWS03:AWS95 Configuration & Sizing Guide*.

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A/UX Kernel Configuration

Configure A/UX 3.0.1 kernel for the AWS95 Database Server, by tuning the following kernel parameters with the given values, using the *kconfig* command. Open the Command Shell window

and do the following steps:

- 1) Type *kconfig* Press *enter*
- 2) Type *NBUF = 0* Press *enter*
- 3) Type *NCALL = 150* Press *enter*
- 4) Type *NFILE = 1024* Press *enter*
- 5) Type *NINODE = 1024* Press *enter*
- 6) Press *ctrl-D* to get back to Command Shell

For the *kconfig* changes to become effective, you must shut the system down and then restart the system.

For detailed information on *kconfig*, please refer to the on-line man page on *kconfig*. For more information on Kernel parameters defaults and deltas for Apple Workgroup Server 95 File/Print and Database Configuration, refer to the technical note *AWS08:Kernel Parameters (kconfig) defaults & Deltas for AWS95 File/Print and Database Server Configuration*.

Hard Drive Partitioning for Apple Workgroup Server 95 Database Server

Partitioning the hard drive for Apple Workgroup Server 95 Database Server is done to gain optimum performance. Hard drive partitioning is accomplished by following these steps:

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- 1) Restart the Apple Workgroup Server 95 from the A/UX 3.0.1 *Installation Boot Disk*
- 2) Insert the *Apple System Software File & Print Database Service Environment for AWS95* CD into the CD-ROM.
- 3) At the A/UX Easy Install dialog select Custom Install...
- 4) At the A/UX Custom Install dialog select Disk Setup...
- 5) At the Apple HD SC Setup v3.0.1 (A/UX) dialog verify the SCSI ID and hard drive name is the volume to be used for the Database Server System installation.
- 6) At the Apple HD SC Setup v3.0.1 (A/UX) dialog select Partition.
- 7) At the next dialog select Database Server System and OK.
- 8) At the completion of hard drive partitioning, the dialog Apple HD SC Setup v3.0.1 (A/UX) is displayed Select Done.
- 9) The A/UX Custom Install dialog is now displayed.

You are now ready to install the Apple Workgroup Server 95 Database Server A/UX software

Apple Workgroup Server 95 Database Server A/UX Software Installation

At the Apple Workgroup Server 95 do the following steps:

- 1) At the A/UX Custom Install dialog select Easy Install...
- 2) At the Easy Install dialog, verify the SCSI ID and hard drive name is the volume to be used for the Database Server System installation.
- 3) At the Easy Install dialog, select Easy Install.
- 4) The installation of A/UX software begins.

When the installation of A/UX software is done restart the system, launch A/UX Startup, and

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restore your applications.

You are now ready to install the Oracle Database Server software.

Oracle Database Addition to Apple Workgroup Server 95 Database Server

At the Apple Workgroup Server 95 do the following steps:

- 1) Insert the *Oracle7 Server for A/UX Developer's Release III Version 7.0.12* CD into the CD-ROM.
- 2) Launch the Oracle A/UX Installer.
- 3) At the User Name dialog enter name and select OK.
- 4) At the Oracle Name dialog enter installation pathname and select OK.
- 5) At the Available Products dialog select all the products and click on Install...
- 6) At the Seed Database dialog click on Yes (this creates anew database).
- 7) At the Installed Products dialog verify all selected products are installed and select Quit from the File menu.
- 8) Restart the Apple Workgroup Server 95, and launch A/UX Startup.
- 9) Refer to Oracle documentation to configure other files and startup.

The installation of Apple Workgroup Server 95 Database Server is complete. You might want to set the following environment variables in the file `/mac/bin/mac32`:

```
TBFMIGNORECASE = 1 /* case insensitivity */  
TBTRANSLATESLASHES = 1 /* allow '/' in filename */  
TBTRANSLATEUXONLY=1 /* no CR -> LF translation */
```

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