

# ULTRIX-32 Capacity Upgrade Installation Instructions

Order No. AA-ME87B-TE

This booklet tells how to install your capacity upgrade kit. Please keep this booklet and your capacity upgrade media to use with subsequent ULTRIX releases.

Your capacity upgrade media label has one of the following formats:

ULTRIX-32 V2.0 *users media*

ULTRIX-32 V3.0 *users media*

The number of users allowed with your capacity upgrade kit appears in place of *users*, and the type of distribution media you received appears in place of *media*.

## What Is a Capacity Upgrade Installation Kit?

A capacity upgrade kit lets you increase the number of users on some ULTRIX systems. The default number of users on an ULTRIX system is 2. Capacity upgrade kits are available to increase the number of users allowed to log in simultaneously on some supported processors.

## Capacity Upgrade Installation Kit Contents

Your capacity upgrade kit contains distribution media. The distribution media for your capacity upgrade depends on the type of equipment you have. You can also install capacity upgrade software over the network.

Table 1 lists the default media type for each processor for which capacity upgrade software is available. Replace *tape\_drive* with the name of the device special file where your capacity upgrade distribution tape is to be located. Replace the question mark (?) with the unit number of the distribution device.

Table 1: Capacity Upgrade Distribution Media and Device Special Files

Type of Media	Device Special File
TU58 cassette tape	<i>/dev/tu0</i>
RX01 diskette	<i>/dev/floppy</i>
1600 bits/in. magnetic tape	<i>/dev/tape_drive</i>
RX50 diskette	<i>/dev/rcs1a</i>
TK50 tape cartridge	<i>/dev/tape_drive</i>
CDROM	<i>/dev/rrz?c</i>

## Maximum Number of Users

The maximum number of users allowed for your system is listed on the `maxusers` line of your system configuration file. The maximum number of users specified in your system configuration file must be equal to or greater than the maximum number of users specified in your capacity upgrade kit.

Use the `grep` command to determine the value of `maxusers` in your configuration file.

If you have a RISC processor, enter a command like the following:

```
% grep maxusers /sys/conf/mips/SYSTEMNAME
```

If you have a VAX processor, enter a command like the following:

```
% grep maxusers /sys/conf/SYSTEMNAME
```

Substitute the system name of your processor for `SYSTEMNAME`.

If the default value of `maxusers` is less than the maximum number of users allowed with your capacity upgrade kit, or if you have changed the value of `maxusers` in your system configuration file so that it is less than the number allowed with your kit, you must enter the correct maximum number of users in your configuration file as part of the capacity upgrade

installation procedure.

## What You Need to Know

To install the capacity upgrade kit, you must know:

- How to log in to the superuser account
- How to load the distribution media
- Device special file names for your system
- How to edit your system configuration file
- How to rebuild the ULTRIX kernel, /vmunix, using the doconfig utility
- How to reboot your system

Refer to the ULTRIX Reference Pages for information about doconfig(8.) Refer to the appropriate system and network management guides for information about the other topics.

These instructions contain directions for two methods of installing the capacity upgrade software:

- Installing the capacity upgrade kit directly
- Installing the capacity upgrade kit over the network

Read the section that applies to your installation.

## Installing the Capacity Upgrade Kit Directly

Use the following procedure to install the capacity upgrade kit directly on your machine, using tape or diskette as the distribution media:

1. Log in and become the superuser.
2. Load the distribution media on your system.
3. Type the following command:

```
# /etc/install_upgrade special
```

Replace *special* with the name of the device special file where your capacity upgrade distribution media is located. See Table 1 for a list of distribution media and the appropriate device special file for each.

A prompt similar to the following might appear if the capacity upgrade kit were being installed on a system named msys:

Is the correct capacity upgrade kit loaded on /dev/rcsla at mysys <y/n>?

4. Make sure the capacity upgrade kit that your machine is licensed to use is loaded, then type *y*.

This message appears when the capacity upgrade software installation is complete:

Capacity Upgrade installation is done.

5. If your `maxusers` entry must be changed to equal the number of users allowed with your capacity upgrade kit, edit your system configuration file. Your system configuration file is `/usr/sys/conf/SYSTEMNAME`, where `SYSTEMNAME` is the name of your system.
6. If you changed your `maxusers` entry, you must rebuild your kernel. Do not rebuild the kernel unless you changed `maxusers`.
7. Reboot your system, whether or not you had to rebuild your kernel.

See the Guide to System Configuration File Maintenance for information about editing the configuration file, rebuilding the kernel, and rebooting the system.

After you have rebooted the system, the capacity upgrade installation procedure is complete and your system supports the appropriate number of users.

### **Note**

Each time you enter multiuser mode after you have installed your capacity upgrade kit, a message appears identifying the user capacity supported by your machine.

## **Installing the Capacity Upgrade Kit Over the Network**

If you are installing your capacity upgrade kit over the network, prepare the server first, then transfer the software from the server to the client.

Before you begin your installation, make sure that the client machine is registered on the server machine. See the Guide to the Remote Installation Service for information about adding clients.

### **At the Server**

Load the distribution media on your system. See Table 1 for a list of distribution media and the appropriate device special file for each.

### **At the Client**

Follow this procedure at the client:

1. Log in and become the superuser.

2. Type the following command:

```
# /etc/install_upgrade server special
```

Replace *server* with the system name of the server, and replace *special* with the device special file name on that server where the capacity upgrade distribution media is located. See Table 1 for a list of distribution media and the appropriate device special file for each.

A prompt similar to the following might appear if the capacity upgrade kit were being installed over the network from a system named *serv*:

```
Is the correct capacity upgrade kit loaded on /dev/rcsl1a at serv <y/n>?
```

3. Make sure the capacity upgrade kit that your machine is licensed to use is loaded on the server, then type *y*.

This message appears when the capacity upgrade software installation is complete:

```
Capacity Upgrade installation is done.
```

4. If your *maxusers* entry must be changed to equal the number of users allowed with your capacity upgrade kit, edit your system configuration file. Your system configuration file is */usr/sys/conf/SYSTEMNAME*, where *SYSTEMNAME* is the name of your system.
5. If you changed your *maxusers* entry, you must rebuild your kernel. Do not rebuild the kernel unless you changed *maxusers*.
6. Reboot your system, whether or not you had to rebuild your kernel.

See the Guide to System Configuration File Maintenance for information about editing the configuration file, rebuilding the kernel, and rebooting the system.

After you have rebooted the system, the capacity upgrade installation procedure is complete and your system supports the appropriate number of users.

### Note

Each time you enter multiuser mode after you have installed your capacity upgrade kit, a message appears identifying the user capacity supported by your machine.

