
DLTtape™ Installation on HP® 9000 Series 700 System

HP-UX® 9.X

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NOTE: The information in this document pertains to DLT™2000, DLT™2000XT, DLT™4000, DLT™7000 or DLT™8000 cartridge tape drive or the DLT™2500, DLT™2500XT, DLT™2700, DLT™2700XT, DLT™4500 or DLT™4700 tape mini-library that you are installing. DLT drives cannot be used with HP's fbackup/frecover utility on this system.

The following section describes the installation and configuration of a DLT tape peripheral on an HP 9000 Series 700 system running HP-UX 9.X. The DLT controller firmware must have OEM-1 controller firmware installed.

Installation

The system must have the appropriate SCSI interface for DLT drive to attach to, i.e., a SCSI single-ended DLT drive can be attached only to a SCSI single-ended interface. The same is true for SCSI differential attachment. The hardware attachment simply requires the DLT tape peripheral to be attached to the interface while the system is powered down. After the DLT tape peripheral has been attached, you will need to perform certain system operations that will allow DLT device system recognition.

Perform the installation as follows:

Shutdown the system and remove AC power from the system. Install the DLTtape peripheral and connect it to the SCSI controller. Depending on the DLT tape peripheral you are installing, refer to one of the following manuals for switch and jumper settings and SCSI bus termination:

- DLT2000/DLT2700 product manual (order number 81-109132)
- DLT2500 owner's manual (order number 81-109374)
- DLT2000XT/DLT2500XT/DLT2700XT product manual (order number 81-109253)
- DLT4000/DLT4500/DLT4700 product manual (order number 81-106336)
- DLT7000 Tape Drive product manual (order number 81-60000)
- DLT8000 Tape Drive product manual (order number 81-60118)

Set the DLT SCSI device address to an unassigned SCSI ID. Power up the system. During the power-up, the process allows you to stop the sequence by pressing the ESC key. By doing so, you can verify drive attachment by issuing a search for boot device selection. This will display all attached SCSI devices including the DLT tape drive. The boot process can continue by selecting the appropriate boot disk. Log on as root and change directory to /dev/rmt

In the next step, you will create a set of device files that will allow DLT device access. These device files allow certain DLT device modes of operation.

Enter the following commands:

```
mknod 1m c 54 0x201402  
mknod 1mn c  
54 0x201403  
mknod 1c c 54 0x2014c2  
mknod 1cn c 54 0x2014c3
```

The device files created are for an installed DLT device with a SCSI ID of 4 and are shown below along with their corresponding operating characteristics:

```
1m - drive 1, rewind on close  
1mn - drive 1, no rewind on close  
1c - drive 1, compressed, rewind on close  
1cn - drive 1, compressed, no rewind on close
```

Associating the device files to a DLT device with a SCSI ID other than 4 requires that the number "4" in the minor number of the mknod command be changed to the new ID.