

 NOTE: For information related to this topic, see the *Installing a DLT, SDLT, VS, LTO, or DAT Tape Drive Into a Linux Operating System* Knowledge Base article #[8040](#).

Sample stinit.def Definitions File

This section provides a sample stinit.def definitions file. You must set up your stinit.def file if you have not done so already.

Recommendations This sample contains Quantum's recommendations for setting up your stinit.def file.

You may use the information provided here (you can copy and paste the information directly into your stinit.def file or enter it manually). You may modify this information as needed. You may also create your own stinit.def file.

Sample File

```
# Red Hat Linux 9.0, EL 2.1, EL 3.0
# Novell SuSE Linux 8.0, 9.0
#
# Quantum Corporation
# Jeff Willener
#
# 8-29-2003
# Initial Release
#
# 12-20-2004
# Add SDLT600 Support
#
# 6-17-2005
# Add LTO, LTO2, LTO3 support
#
# 11-1-2005
# Add DAT72, DLT-V4 support
#
# 3-7-2010
# Added S4 Support
#
# See also: man page stinit(8),
# /usr/share/doc/mt-st-*/stinit.def.examples,
# man page st(4),
# man page mt(1),
# man page stinit(8)
# Supported Quantum Devices:
#
# QUANTUM DLTS4
# Density Codes:
# 0x4B 800.0 GB (DLTtape S4)
# Alternate Density Codes Not Supported
#
# QUANTUM SDLT600
# Density Codes:
# 0x4A 320.0 GB (Super DLTtape 2)
# Alternate Density Codes Not Supported
# QUANTUM SDLT320
# Density Codes:
# 0x49 160.0 GB (Super DLTtape 1)
# 0x92 160.0 GB compression off (Super DLTtape 1)
```

```
# 0x93 320.0 GB compression on (Super DLTtape 1)
#
# QUANTUM SDLT220
# 0x48 100.0 GB (Super DLTtape 1)
# 0x90 100.0 GB compression off (Super DLTtape 1)
# 0x91 200.0 GB compression on (Super DLTtape 1)
#
# QUANTUM DLT8000
# 0x41 40.0 GB (DLTtape IV)
# 0x88 40.0 GB compression off (DLTtape IV)
# 0x89 80.0 GB compression on (DLTtape IV)
#
# CERTANCE ULTRIUM 3
# 0x44 400.0 GB
#
# CERTANCE ULTRIUM 2
# 0x42 200.0 GB
#
# CERTANCE ULTRIUM
# 0x40 100.0 GB
#
# CERTANCE DAT72
# 0x47 36.0 GB (DAT 72)
#
# QUANTUM DLT-V4
# 0x51 160.0 GB (DLTtape VS1)
#
# QUANTUM DLT VS160
# 0x50 80.0 GB (DLTtape VS1)
# 0x98 80.0 GB compression off (DLTtape VS1)
# 0x99 160.0 GB compression on (DLTtape VS1)
#
# BNCHMARK DLT1
# 0x40 40.0 GB (DLTtape IV)
# 0x86 40.0 GB compression off (DLTtape IV)
# 0x87 80.0 GB compression on (DLTtape IV)
# /usr/src/linux-<kernel revision>/Documentation/devices.txt
# 9 --> Kernel Device Index Number
# char --> Character Device
# 0-255 --> SCSI Tape Device Node
#
# 9 char SCSI tape devices
# 0 = /dev/st0 First SCSI tape, mode 0
# 1 = /dev/st1 Second SCSI tape, mode 0
# ...
# 32 = /dev/st0l First SCSI tape, mode 1
# 33 = /dev/st1l Second SCSI tape, mode 1
#...
# 64 = /dev/st0m First SCSI tape, mode 2
# 65 = /dev/st1m Second SCSI tape, mode 2
#...
# 96 = /dev/st0a First SCSI tape, mode 3
# 97 = /dev/st1a Second SCSI tape, mode 3
#...
# 128 = /dev/nst0 First SCSI tape, mode 0, no rewind
# 129 = /dev/nst1 Second SCSI tape, mode 0, no rewind
#...
# 160 = /dev/nst0l First SCSI tape, mode 1, no rewind
# 161 = /dev/nst1l Second SCSI tape, mode 1, no rewind
#...
# 192 = /dev/nst0m First SCSI tape, mode 2, no rewind
# 193 = /dev/nst1m Second SCSI tape, mode 2, no rewind
```

```

#...
# 224 = /dev/nst0a First SCSI tape, mode 3, no rewind
# 225 = /dev/nst1a Second SCSI tape, mode 3, no rewind
# Global Keywords and Values
drive-buffering=1
#scsi2logical=1
no-wait=0
buffering=0
async-writes=0
read-ahead=1
two-fms=0
auto-lock=0
fast-eom=1
can-bsr=1
noblklimits=0
# can-partitions=0
#
# QUANTUM DLTS4
manufacturer=QUANTUM model="DLTS4" {
timeout=3600 # 1 hour timeout
long-timeout=14400# 4 hour long timeout
can-partitions=0
mode1 blocksize=0 density=0x4B compression=1 # DLTS4 density, compression on
mode2 blocksize=0 density=0x4B compression=0 # DLTS4 density, compression off
mode3 blocksize=0 density=0x4A compression=1 # SDLT600 density, compression on
mode4 blocksize=0 density=0x49 compression=1 # SDLT320 density, compression on
}
# QUANTUM SDLT600
manufacturer=QUANTUM model="SDLT600" {
timeout=3600 # 1 hour timeout
long-timeout=14400# 4 hour long timeout
can-partitions=0
mode1 blocksize=0 density=0x4A compression=1 # SDLT600 density, compression on
mode2 blocksize=0 density=0x4A compression=0 # SDLT600 density, compression off
mode3 blocksize=0 density=0x49 compression=1 # SDLT320 density, compression on
mode4 blocksize=0 density=0x48 compression=1 # SDLT220 density, compression on
}
# QUANTUM SDLT320
manufacturer=QUANTUM model="SDLT320" {
timeout=3600 # 1 hour timeout
long-timeout=14400# 4 hour long timeout
can-partitions=0
mode1 blocksize=0 density=0x49 compression=1 # SDLT320 density, compression on
mode2 blocksize=0 density=0x49 compression=0 # SDLT320 density, compression off
mode3 blocksize=0 density=0x48 compression=1 # SDLT220 density, compression on
mode4 blocksize=0 density=0x48 compression=0 # SDLT220 density, compression off
}
# QUANTUM SDLT220
manufacturer=QUANTUM model="SuperDLT1" {
timeout=3600
long-timeout=14400
can-partitions=0
mode1 blocksize=0 density=0x48 compression=1 # SDLT220 density, compression on
mode2 blocksize=0 density=0x48 compression=0 # SDLT220 density, compression off
mode3 blocksize=0 density=0x41 compression=1 # DLT8000 density, compression on
mode4 blocksize=0 density=0x41 compression=0 # DLT8000 density, compression off
}
# QUANTUM DLT8000
manufacturer=QUANTUM model="DLT8000" {
timeout=3600
long-timeout=14400
can-partitions=0

```

```

mode1 blocksize=0 density=0x41 compression=1 # DLT8000 density, compression on
mode2 blocksize=0 density=0x41 compression=0 # DLT8000 density, compression off
mode3 blocksize=0 density=0x1B compression=1 # DLT7000 density, compression on
mode4 blocksize=0 density=0x1B compression=0 # DLT7000 density, compression off
}
# CERTANCE ULTRIUM 3
manufacturer=CERTANCE model="ULTRIUM 3" {
timeout=800
long-timeout=14400
can-partitions=0
mode1 blocksize=0 density=0x44 compression=1 # ULTRIUM 3 density, compression on
mode2 blocksize=0 density=0x44 compression=0 # ULTRIUM 3 density, compression off
mode3 blocksize=0 density=0x42 compression=1 # ULTRIUM 2 density, compression on
mode4 blocksize=0 density=0x40 compression=1 # ULTRIUM density, compression on
}
# CERTANCE ULTRIUM 2
manufacturer=CERTANCE model="ULTRIUM 2" {
timeout=800
long-timeout=14400
can-partitions=0
mode1 blocksize=0 density=0x42 compression=1 # ULTRIUM 2 density, compression on
mode2 blocksize=0 density=0x42 compression=0 # ULTRIUM 2 density, compression off
mode3 blocksize=0 density=0x40 compression=1 # ULTRIUM density, compression on
mode4 blocksize=0 density=0x40 compression=0 # ULTRIUM density, compression off
}
# CERTANCE ULTRIUM
manufacturer=SEAGATE model="ULTRIUM06242-XXX" {
timeout=800
long-timeout=14400
can-partitions=0
mode1 blocksize=0 density=0x40 compression=1 # ULTRIUM density, compression on
mode2 blocksize=0 density=0x40 compression=0 # ULTRIUM density, compression off
mode3 blocksize=0 density=0x40 compression=1 # ULTRIUM density, compression on
mode4 blocksize=0 density=0x40 compression=1 # ULTRIUM density, compression on
}
# CERTANCE DAT72
manufacturer=SEAGATE model="DAT DAT72" {
timeout=600
long-timeout=-10800
can-partitions=0
mode1 blocksize=512 density=0x47 compression=1 # DAT72 density, compression on
mode2 blocksize=512 density=0x47 compression=0 # DAT72 density, compression off
mode3 blocksize=512 density=0x26 compression=1 # DDS4 density, compression on
mode4 blocksize=512 density=0x25 compression=1 # DDS3 density, compression on
}
# QUANTUM DLT-V4
manufacturer=QUANTUM model="DLT-V4" {
timeout=3600
long-timeout=14400
can-partitions=0
mode1 blocksize=0 density=0x51 compression=1 # DLT-V4 density, compression on
mode2 blocksize=0 density=0x51 compression=0 # DLT-V4 density, compression off
mode3 blocksize=0 density=0x50 compression=1 # VS160 density, compression on
mode4 blocksize=0 density=0x40 compression=1 # VS80 density, compression on
# QUANTUM DLT VS160
manufacturer=QUANTUM model="DLT VS160" {
timeout=3600
long-timeout=14400
can-partitions=0
mode1 blocksize=0 density=0x50 compression=1 # VS160 density, compression on
mode2 blocksize=0 density=0x50 compression=0 # VS160 density, compression off
mode3 blocksize=0 density=0x40 compression=1 # VS80 density, compression on

```

```
mode4 blocksize=0 density=0x40 compression=0 # VS80 density, compression off
}
# BENCHMARK VS80
manufacturer=BNCHMARK model="DLT1" {
timeout=180
long-timeout=14400
can-partitions=0
mode1 blocksize=0 density=0x40 compression=1 # VS80 density, compression on
mode2 blocksize=0 density=0x40 compression=0 # VS80 density, compression off
mode3 blocksize=0 density=0x41 compression=1 # DLT8000 density, compression on
mode4 blocksize=0 density=0x41 compression=0 # DLT8000 density, compression off
}
```