



UNIX Configuration Guide

Switch Settings

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Drive Configuration Switches

When the drive is powered on, it reads a set of configuration switches on the underside of the unit, as shown below.

Configuration Switches (shown in default positions)

To change the configuration:

1. switch the drive off
2. select the correct configuration for your system
3. switch the drive on again.

For the drive to operate correctly, appropriate drivers and application software must be loaded on the host computer.

Switch Functions

1. [Data Compression](#)
2. [Data Compression](#)
3. [Media Recognition System \(MRS\)](#), (*usually*).
4. |

- 5.1
- 6.1 4-6: Other functionality
- 7.1
- 8.1

Switches 1-3 are described below. Settings for the other switches are given in the section dealing with each platform:

- [DEC Workstations](#)
- [HP Workstations](#)
- [IBM RS6000 Workstations](#)
- [PC-based UNIX](#)
- [Silicon Graphics Workstations](#)
- [SUN Workstations](#)

The following table summarizes typical Configuration Switch settings:

	1	2	3	4	5	6	7	8
Default and most PC Applications	On	On	Off	On	On	On	On	On
HP Series 700 Workstations	On	On	Off	On	On	On	On	On
SUN*	On	On	On	On	On	Off	Off	On
Silicon Graphics*	On	On	Off	On	On	Off	Off	On
IBM RS6000*	On	On	Off	On	On	Off	Off	On
DEC	On	On	Off	On	On	On	On	Off

*For Sun, Silicon Graphics and IBM RS6000, put switch 8 in the OFF position to disable MRS.

Data Compression--Switches 1 and 2

Switches 1 and 2 are used to configure the way in which data compression is set for the drive. The following table shows the available options

Switch 1	Switch 2	Meaning
On	On	Compression enabled at power-on, with host control
On	Off	Compression enabled at power-on, no host control
Off	On	Compression disabled at power-on; the host is allowed to control compression

Off	Off	Compression disabled at power-on, no host control
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- If switch 1 is ON, data written to the tape will be compressed without the knowledge of the host.
- If switch 2 is ON, Data Compression can be controlled by the operating system if supported.
- By default, the drive will decompress data when reading a compressed tape, regardless of the settings of switches 1 and 2. Decompression can be turned off through choice of device file, and can be controlled by the operating system if supported.

Media Recognition System (MRS) - switch 3 or switch 8

The Media Recognition System (MRS) enables drives to identify DDS-grade media. DDS MRS cartridges have a series of stripes on the transparent leader tape at the beginning of the tape. HP drives can be configured to treat non-MRS tapes as write-protected. In other words, the drive will only be allowed to read the tapes, not write to them.

Switch 3 or 8 is used to configure the drive to respond to DDS Media Recognition System tapes:

Switch 3 or 8	Meaning
On	The Media Recognition System is disabled. All DDS tapes will be treated the same, whether they possess the Media Recognition stripes or not.
Off	The Media Recognition System is active. This is the default. Non-MRS tapes will be treated as if they are write-protected.

See details of different operating systems for which switch to use.

Switches 3 through 8

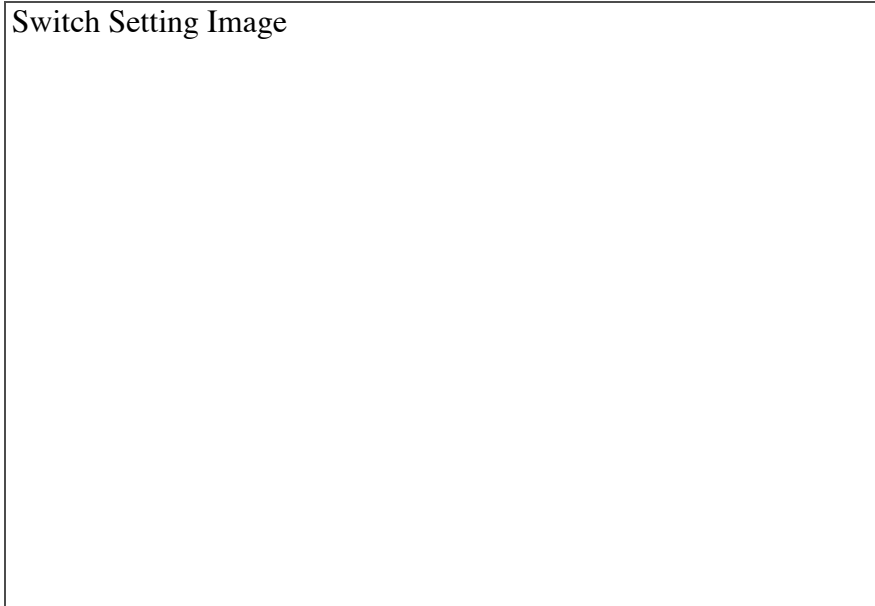
Switches 3 through 8 are used to specify connectivity and functionality according to host or customer requirements. The default setting is switch 3 **OFF**, and all the other switches ON.

Autoloader Option Switches

Introduction - What are option switches?

The C1557A mechanism used inside the HP SureStore Tape DAT24x6 has four option switches at the back. The switches are used to set different options for the *autoloader mechanism* (**not** the tape drive), and are read at power-on.

Because the HP SureStore Tape DAT24x6 has an external case, these switches are inaccessible to users. Instead they are extended to a single indicator/switch at the rear of the case, known as the **Autoloader Option Switch** (diagram below).



To change the value: push the small buttons above and below the number with a ball-point pen or similar.

Option Switch values for various platforms:

The table below shows how the Option Switch value relates to the internal switch settings, and the correct value to set for each platform:

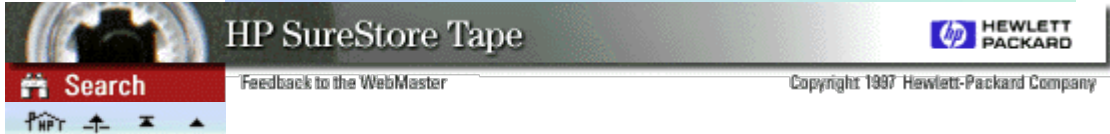
Option Switch Value	Internal Switch Settings				Connectivity
	1	2	3	4	
7	On	On	On	Off	HP Series 700, DEC, IBM AIX, Silicon Graphics, and PCs (<i>default setting</i>)

5	On	Off	On	Off	SUN Solaris 2, SUN OS
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Notes:

1. Set the value with the autoloader switched off.
2. Internal switch 4 is not used at all.

[Drive Switches](#) | [Autoloader Option Switches](#) | [Data Compression](#)
[Medium Recognition](#)



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