



Introduction

This application note explains how to install Qualstar's SCSI Interface Diagnostic utilities. Qualstar provides these utilities to support and diagnose SCSI installation and setup problems. Each utility is a small Windows 95/98 and NT console program designed to exercise a single SCSI command or function.

System Requirements

The programs require a host computer (i386 or higher) running Windows 95/98 or NT 4.0 (or later), with a SCSI interface or Fibre Channel host adapter. The programs require Adaptec's Advanced SCSI Programming Interface (ASPI) interface. Qualstar has licensed Adaptec's ASPI interface for use with the diagnostic programs.

Obtain the Windows NT SCSI Interface Diagnostics Programs

The Windows NT SCSI Interface Diagnostic programs are available for use by Qualstar customers. Contact Qualstar Customer Service to obtain a copy of the diagnostic files. These files are contained in a self-extracting zip file `scsiface.exe`.

Program Installation

Execute the `scsiface.exe` to self-extract the ZIPed files it contains:

- `Aspchk.exe` - Adaptec's utility to verify the ASPI program interface.
- `Aspiinst.exe` - Adaptec's utility to install the ASPI program interface.
- SCSI Utilities - Qualstar's SCSI interface utilities.
- SCSI Interface Programs.doc - SCSI Interface program descriptions.

Execute the program `aspchk.exe` to verify the installation of the ASPI program interface. If the ASPI interface is not installed or is incorrect, execute the program `aspiinst.exe` to install the latest APSI program interface.

Quick Scan of SCSI Devices

To quickly test the SCSI interface and program installation setup, execute the program `scanscsi32.exe`. This program will perform a SCSI Inquiry operation on a range of SCSI addresses. If a device is found, it will display the general information obtained from the inquiry response.

Execute `scanscsi32` from a Windows command prompt or "DOS box". The wild card parameters are used to perform the SCSI inquiry operation on Hosts (0-15), Ids (0-15) and Luns (0-7).

Example program execution and response.

```
>scanscsi32 *,*,*
```

Id,Lun,Host	Device Type	Vendor	Product	Revision
0, 0, 1	Medium Changer	QUALSTAR	TLS-412360	2091
1, 0, 1	Sequential-Access	SONY	SDX-500C	0107
2, 0, 1	Sequential-Access	SONY	SDX-500C	0107

In this example, the SCSI bus scan found three devices. The first device is a Qualstar TLS-412360, followed by two Sony tape drives.

Program Descriptions

The SCSI Interface Programs document provides a brief description of each SCSI interface command.