

# COMPUTER SHOCK AND VIBRATION CONCERNS

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## INTRODUCTION

Digital microcomputers are ubiquitous.

Computers inside the space shuttle control its descent from orbit until it slows to Mach 1, the speed of sound. At this time, the pilots gradually take over control and prepare for landing.

Computers inside satellites provide a myriad of functions. For example, a satellite computer might record sensor data for later transmission to Earth ground stations. Computers with analog-to-digital conversion modules are replacing strip chart records for seismic monitoring.

Obviously, computers are becoming increasingly common in home and business settings, where they are used for calculations, word processing, data storage, Email, internet access, and entertainment.

Computers and other electronic equipment must withstand shock and vibration environments during assembly, shipping, and at other times. Computers must also function accurately during shock and vibration exposure. For example, the space shuttle computers must accurately control the vehicle while it undergoes the aerodynamic buffeting from re-entry into the atmosphere.

The purpose of this report is to give some design, testing, and analysis guidelines for computers with respect to shock and vibration environments.

## EXPECTED ENVIRONMENTS

### *Notes*

Design engineers must understand the shock and vibration environments to which their computers will be exposed. A few examples are given in this section.

### *Assembly*

Power screwdrivers are often used to install components inside computer chassis. These screwdrivers produce bursts of pulses having high amplitudes and very short duration. Hard disk drives may be particularly susceptible to these shock pulses. The International Disk Drive Equipment and Materials Association (IDEMA) addresses this concern in Reference 1.

### *Transportation and Shipping*

Transportation and shipping environments are a concern for all computers. For example, a computer might be shipped inside a truck that runs over potholes and railroad tracks at imprudent speeds.

A well-designed shipping container with foam inserts should be able to reasonably protect a computer from shock and vibration. Packaging techniques are discussed later in this report.

### *Motor Vehicles*

Some computer systems must be permanently mounted in vehicles. These systems must operate during the shock and vibration. For example, computers in emergency rescue vehicles must function accurately even when the vehicles travel on washboard roads. The author has experience measuring washboard road vibration. Most of the energy was in the 0 to 20 Hz frequency range. A notebook computer data acquisition system was used to measure the acceleration. Ironically, the computer suffered hard drive lock up problems during the worst of the vibration.

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