



Advanced Simulation Technology inc.
441-A Carlisle Drive
Herndon, Virginia 20170 U.S.A.
Tel. (703)471-2104 • Fax. (703)471-2108
www.asti-usa.com

ASTi

DACS Zip Drive Installation & Cold Start Procedure

Document: DOC-01-DACS-ZD-1

ASTi DACS Zip Drive Installation & Cold Start Procedure

© Copyright ASTi 2001.

Restricted Rights: Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.227-7013.

This material may be reproduced by or for the U.S. Government pursuant to the copyright license under the clause at DFARS 252.227-7013 (1994).

ASTi

441-A Carlisle Drive

Herndon, VA 20170

Atapi Zip Cold Start and Installation Note

1. Introduction

The addition of an Atapi ZIP drive allows for a convenient removable storage medium for backup. This document explains how to install an Atapi Zip drive and the changes required to the startup files. This procedure must be performed after Model Builder is installed, reinstalled, or upgraded. To use the Zip drive, the user must then select this operation upon startup. The Zip drive will then act as an ordinary hard drive.

To use an Atapi ZIP drive with the DACS, the startup files must be edited when Model Builder is installed or upgraded. The editing of these files is necessary due to Model Builders rewriting of the startup files during installation. The changes consist of an addition to the menu system that enables support for the Zip drive. Additionally, the autoexec.bat will call guest.exe, located at c:\iomega\, which properly configures the Zip drive to the letter desired. The DOS Zip drivers can be obtained from ASTi or downloaded from www.iomega.com.

It is suggested that the Zip drive is configured as the last drive. In this example, the enclosed hard drive consisted of four partitions. That would allow the following drive lettering scheme of C, D, E, and F on the primary hard drive. Therefore, the Zip drive is configured as drive G.

It should also be noted that the Zip drive is configured as master on the secondary IDE channel with auto-detect enabled in the BIOS. If a secondary IDE channel is not available, the Zip drive may be configured as a slave on the primary IDE channel with auto-detect enabled in the BIOS. The Zip drive contains instructions on jumper positions for a master and slave setting.

2. Detailed Instructions

Appendix A and Appendix B of this document contain sample config.sys and autoexec.bat files, respectively. These appendices show the exact location of changes required to these files.

1. Assuming a power cord, keyboard, and monitor are connected to the DACS, turn the power on.
2. Quit Model Builder or boot up with the “no drivers loaded” option.
3. Insert the ASTi Zip drivers disk and type “a:\install”.
4. Remove the disk after installation is complete.
5. Change back to the hard disk (i.e. type “c:”)
6. Change to the root directory. (i.e. type “cd \”)
7. Edit the config.sys file with the following changes by typing “edit config.sys”.

NOTE: Italicized items are not added. Appendix A contains an example config.sys.

Under the [menuitems] section, add:

```
menuitem = backup, : Backup Operation (Zip support)
```

Then create a section with the following heading:

```
[backup]
BUFFERS=99
FILES=255
LASTDRIVE=Z
SET IOMEGA=ON
```

8. Save the file and exit.
9. Edit the autoexec.bat with the following changes by typing “edit autoexec.bat”.

NOTE: Italicized items are not added. Appendix B contains an example autoexec.bat.

```
IF NOT "%IOMEGA%"=="ON" GOTO ZIPEND
C:\IOMEGA\guest letter=g
:ZIPEND
```

10. Save the file and exit.
11. Reboot the computer for changes to take affect.

3. Compatibility and Other Notes

If the system is booted with a Zip disk inside the Zip unit, the drive may assume a different drive letter. Therefore, it is suggested that a disk is not placed within the drive until after the system has booted.

Appendix A: Sample config.sys File

```
[menu]
menudefault = defaults,10
menuitem = defaults, : Normal Operation (ModelBuilder)
menuitem = dredtest, : Demo Operation (ModelBuilder)
menuitem = debugmbx, : Debug Operation (ModelBuilder)
menuitem = backup, : Backup Operation (Zip support)
menuitem = dos-only, : No Drivers (Standard DOS)
```

```
[defaults]
SET SYSTEM=DEFAULT
SET MODELS=USER
```

```
BREAK=OFF
BUFFERS=99
FILES=255
LASTDRIVE=Z
SET FAST=ON
SET MBUILDER=c:\mbuilder\bin
```

```
[debugmbx]
SET SYSTEM=DEFAULT
SET MODELS=USER
```

```
BREAK=OFF
BUFFERS=99
FILES=255
LASTDRIVE=Z
SET FAST=ON
SET MBUILDER=c:\mbuilder\bin.new
```

```
[dredtest]
SET SYSTEM=DEFAULT
SET MODELS=DEMO
```

```
BREAK=OFF
BUFFERS=99
FILES=255
LASTDRIVE=Z
SET FAST=ON
SET MBUILDER=c:\mbuilder\bin
```

```
[backup]
BUFFERS=99
FILES=255
LASTDRIVE=Z
SET IOMEGA=ON
```



```
[dos-only]
BREAK=ON
BUFFERS=10
FILES=40
LASTDRIVE=Z
SET MBUILDER=c:\mbuilder\bin

[common]
STACKS=9,256
SHELL=C:\COMMAND.COM C:\ /P /E:2048
```

Appendix B: Sample autoexec.bat File

```
@ECHO OFF

IF EXIST d:\dev\batch\setpath.bat GOTO DEVD
IF EXIST e:\dev\batch\setpath.bat GOTO DEVE

:DEVC
SET MB_DRIVE=C:
SET DEV_TOOL=%MB_DRIVE%\DEV
SET MB_CODE=%MB_DRIVE%\MB_CODE
PATH c:\DOS;c:\BATCH;c:\MBUILDER;c:\MBUILDER\BIN
PATH %PATH%;%DEV_TOOL%\BATCH
GOTO ENDDEV

:DEVD
SET MB_DRIVE=D:
call d:\dev\batch\setpath.bat
GOTO ENDDEV

:DEVE
SET MB_DRIVE=E:
call e:\dev\batch\setpath.bat
GOTO ENDDEV

:ENDDEV

VERIFY OFF
PROMPT $P --$G
DOSKEY

IF NOT "%FAST%"=="ON" GOTO FASTEND
C:\FAST5\FASTX EXT C:8196
:FASTEND

IF NOT "%FAST%"=="WRITE" GOTO FASTEN
C:\FAST5\FASTX EXT C:8196 S T:0 SWB:7 HK:ON
:FASTEN

IF NOT "%PACKET%"=="ON" GOTO PKTEND
C:\FAST5\E100BPKT.COM 0x7b
rem C:\FAST5\PCNTPK.COM int=0x7c
:PKTEND

IF NOT "%TRACKER%"=="ON" GOTO TRKEND
C:\FAST5\3DBTSR.EXE int60
:TRKEND
```

```
IF NOT "%IOMEGA%"=="ON" GOTO ZIPEND
C:\IOMEGA\guest letter=g
:ZIPEND

CLS
VER
VERIFY
BREAK

IF "%MODELS%"==" " GOTO MBEND
rem SET MBUILDER=c:\mbuilder\bin

IF NOT "%SYSTEM%"==" " GOTO SYSTEMSET
SET SYSTEM=default
:SYSTEMSET

IF NOT "%MODELS%"==" " GOTO MODSET
SET MODELS=user
:MODSET

IF NOT EXIST c:\mbuilder\%MODELS%\models\%SYSTEM%.cfg GOTO MB
cd \mbuilder\%MODELS%\models
mb %SYSTEM%
GOTO MBEND

:MB
cd \mbuilder
mb

:MBEND
CHKDSK
```